



Document: 200.1

**APPLICATION FOR EVALUATION – ACCREDITATION
- PROGRAM OF STUDY -**

Institution: University of Cyprus

District: Nicosia

Name of the Program of Study in Greek: Μεθοδολογία Ιατρικής Έρευνας

Name of the Program of Study in English: Methods in Medical Research

Department: -

Faculty: Medical School

Program Status (check ☒ where applicable):

- New Program of Study: ☒
- Currently operation Program of Study:
 - Registered but not evaluated
 - Evaluated and accredited by SEKAP
 - Evaluated by the Cy.Q.A.A. and did not get accreditation

Which of the following applies to the program submitted? Complete or / and delete accordingly:

a) It operates without evaluation – accreditation and it had its first graduates in the Winter / Spring semester of the academic year

b) It operates without evaluation – accreditation and it will have its first graduates in the Winter / Spring semester of the academic year

c) It is a new program of study and after its evaluation - accreditation, it is expected to operate in the **Winter** / ~~Spring~~ semester of the academic year **2024/2025**

Program Category (check ☒ where applicable):

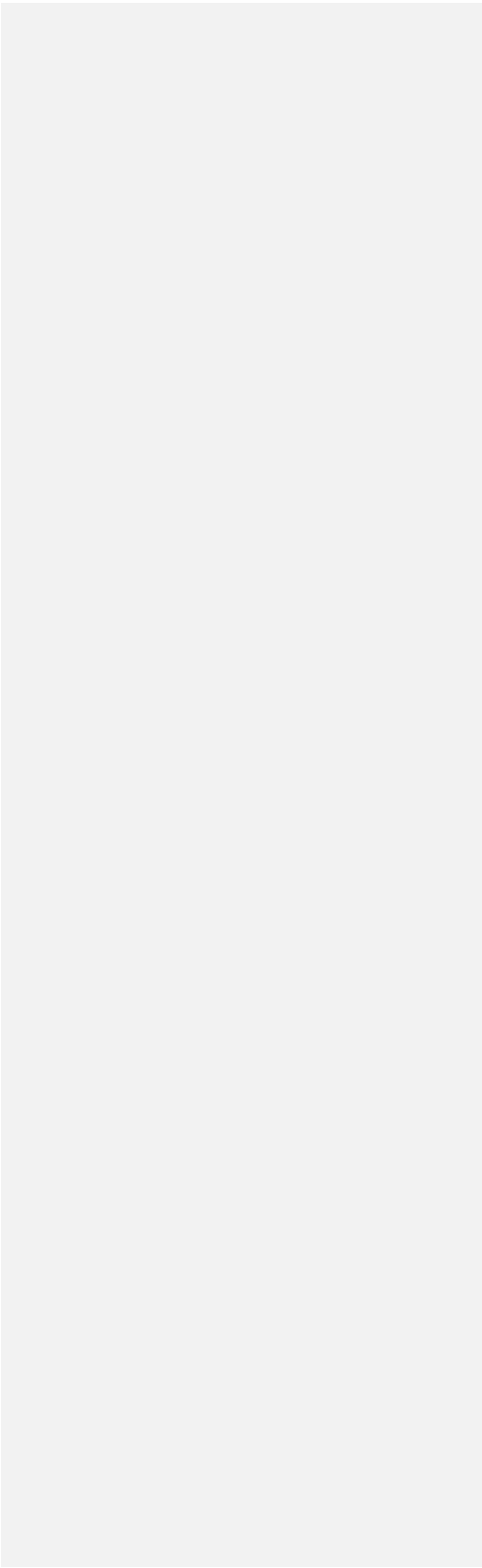
- Conventional ☒
- Distance Learning
- Inter-university (Name of collaborating university/ies)

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APPLICATION SUBMISSION CHECKLIST

For the effective processing of your application, it is confirmed that the following have been delivered/sent to the offices of CY.Q.A.A (check ✓ where applicable):

1. Cover letter ✓
2. Copy of the receipt for the payment of the fees ✓
3. Application in English and Greek in print (1 copy) ✓
4. Application in English and Greek in digital form (1CD) ✓
5. Practical Training Guide
6. Submitting of Foundation Year (if it is offered)
7. Test for English language competency or set levels on the basis of international examinations
8. Submitting of two-year and three-year programs of study in the same discipline and with the same qualification (if the application concerns the evaluation of a bachelor's program) and one-year and two-year if the application concerns the evaluation of a three-year program

Program Coordinator (the coordinator's CV is included in the application with the CVs of the academic personnel)

Name: Georgios N. Nikolopoulos Signature: [Signature]
Tel: +357 22 89 52 23 E-mail: gk.nikolopoulos@gmail.com
nikolopoulos.georgios@cy.ac.cy
Date of Application Submission: 05/07/2019

This Document is submitted on the basis of Article 17 of Laws 136(I)/2015 to 47 (I)/2016 for the evaluation of a program of study

Note the following:

1. The Institution of Higher Education prepares and submits the application, in both Greek and English. The application (in five original copies) and cover letter, which should be submitted both in print and electronically, must be signed by the chief administrative officer of the institution.

2. The deadline for submitting applications is published on the Agency's website according to the relevant provisions of the "Quality Assurance and Accreditation of Higher Education and the Establishment and Operation of an Agency on Related Matters Laws of 2015 to 2016".

3. The institution is responsible to ensure that the application contains all required information and that the information is true and accurate.

4. The application must include the following information, as well any other additional information pertinent to the Criteria set by the Agency, in relation to programmatic evaluation:

- 4.1 Name of the Institution
- 4.2 Institution or branch of the Institution pertinent to this application
- 4.3 Name of the program of study
- 4.4 Final higher education qualification awarded
- 4.5 Program type (academic / vocational)
- 4.6 Duration of studies
- 4.7 Program's purpose and objectives
- 4.8 Intended learning outcomes
- 4.9 Program's language of instruction
- 4.10 Detailed curriculum, including the structure of the program, courses per semester and the content of each course analytically (in Greek or in English depending on the program's language of instruction)
- 4.11 Student admission requirements

- 4.12 Academic / teaching personnel and their qualifications
- 4.13 Program's courses and the academic / teaching personnel teaching each course for every year of studies
- 4.14 Research activities of the teaching personnel involved in the program and synergies between research and teaching
- 4.15 Address or addresses of the program's premises where the program is offered
- 4.16 Number and description of classrooms, laboratories, library, equipment and of any relevant infrastructure in general
- 4.17 Regulations and procedures for quality assurance for the program of study
- 4.18 Student welfare mechanisms, for monitoring the sufficiency of student support
- 4.19 Feasibility study, which must include, amongst others:
 - The proposed number of students
 - Graduates' employability prospects
- 4.20 Tuition and the management of the program's financial resources
- 4.21 Administrative structure of the institution's programs of study, including the program in the proper position (i.e. by indicating the School and the Department under which the program will operate, by noting whether the program is inter-institutional, inter-departmental, etc)
- 4.22 Name and contact information of the Program's Coordinator

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Useful Links

[1. Postgraduate Studies Rules](#)

[2. Academic Affairs and Student Welfare Service](#)



GENERAL INSTRUCTIONS FOR COMPLETING THIS DOCUMENT

1. Since it is not possible to pre-estimate the necessary space to enter information required, interested parties are requested to copy this document on their computers, along with the instructions included herewith, allowing the necessary space for every entry.
2. A separate application should be submitted for every program of study. If the same program of study is offered at the main premises of the institution, as well as at a branch of the institution, separate applications should be submitted.
3. As this application, when it becomes accepted, will be evaluated by an External Evaluation Committee, it should be submitted in five print copies and electronically.
4. Please insert all that is applicable or note "Not applicable" and explain the institution's relevant policy on the particular standard or indicator.



A. PROGRAM'S GENERAL PROFILE

1. Name of the Institution:
University of Cyprus (UCY)
2. Institution or branch of the Institution pertinent to this application:
University of Cyprus – Medical School
3. Name of program of study (See <i>Specific Instructions</i>):
Methods in Medical Research (3-8 semesters/90 ECTS, Master, Magister Scientiae)
4. Final Higher Education Qualification (See <i>Specific Instructions</i>):
Master of Science (MSc) in Methods in Medical Research
5. Type of the program of study (See <i>Specific Instructions</i>):
Conventional Academic
6. Duration of studies (See <i>Specific Instructions</i>):
Duration of studies in academic years: 1.5-4 Total European Credit Transfer System (ECTS): 90 A' semester (courses): 30 ECTS B' semester (courses): 30 ECTS C' semester (<u>elective courses and</u> master thesis): 30 ECTS

Note:

In order for this application to be valid, a copy of the receipt for the payment of the fees, provided by Law N. 136(I)/2015, should be attached to it and it should be submitted within the deadline specified by the relevant legislation.

B. PROGRAM'S CONTENT

1. Program's purpose and objectives:

Research and implementation of its findings in medical practice are necessary for improving the existing health-care services in Cyprus.

The primary objectives of the program are to educate and train medical doctors, other health-care professionals, and generally scientists in the medical field on the design, methodology, and interpretation of results of modern medical research, and help them develop the necessary skills in order to carry out independent research including doctoral-level studies.

In particular, the program aims at:

1. Providing high-quality graduate-level education
2. Training students on most aspects of research in medicine and health
3. Helping students practice theoretical information
4. Providing knowledge and helping students develop the necessary skills for doctoral-level studies and for undertaking high-level research.

2. Intended learning outcomes:

By completing the MSc in Methods in Medical Research, the graduates are expected to be able to understand methods and interpret results of contemporary medical research, and to carry out independent research having the skills to be involved in all phases of medical research.

3. Program's language of instruction:

English.

4. Detailed curriculum, including the structure of the program, courses per semester, and the content of each course analytically (in Greek or in English depending on the program's language of instruction (*See Specific Instructions*):

- (a) Structure of the program of study (Table 1)
- (b) Distribution of courses per semester (Table 2)
- (c) Complete list of compulsory courses and elective courses (Annex 1)
- (d) Course description (Annex 2)

5. Student admission requirements (*See Specific Instructions*):

Candidates considered for admission to the MSc in "Methods in Medical Research" must hold a Bachelor degree, provided by higher education institutions of the Republic of Cyprus or by officially recognized foreign institutions, on medicine, dentistry, nursing, biology, psychology, sociology, mathematics, statistics or other related fields.

Applications are evaluated by the Committee of Graduate Studies of the Medical School of the University of Cyprus (UCY), which submits its recommendations to the Board of the UCY Medical School that is responsible for the final approval of an application.

The selection of students is based on the following criteria:

1. Interview grade
2. Grade for undergraduate degree
3. Grades for undergraduate courses related to the subject of the graduate program
4. Subject of thesis for undergraduate degree (evaluation of whether it is related or not to the MSc)
5. Holding another postgraduate or doctorate-level degree
6. Publications in journals / presentations at conferences
7. Letters of recommendation
8. Professional experience in health-related fields
9. Good command of English.

6. Academic / Teaching Personnel and their qualifications - their biographical notes should be attached (See Specific Instructions):

Short description of the Academic / Teaching Personnel and their qualifications:

Panayiotis Yiallourous

Prof. P. Yiallourous studied Medicine at the University of Athens supported by scholarships of the Greek State Scholarships Foundation and the "A.G. Leventis Foundation". He did his general pediatric residency jobs at the "P & A Kyriakou" Children's Hospital in Athens and fellowships in pediatric pulmonology at St Thomas' Hospital and the Great Ormond Street Hospital for Sick Children in London. In 1997, he joined the Department of Pediatrics at the tertiary "Archbishop Makarios III" Hospital in Nicosia and established the Pediatric Pulmonology Unit, which he directed for 18 years.

From 2005 till 2015, Prof. Yiallourous served as an Adjunct Lecturer and Head of the "Respiratory Diseases & The Environment Research Program" of the Cyprus International Institute for Environmental and Public Health (CII), a research institute that was established in Cyprus by an agreement of the Cyprus Government and Harvard University. In July 2016, he was formally appointed as Professor of Pediatrics at the Medical School of the University of Cyprus. Over the last 12 years, Prof. Yiallourous has acquired ten competitive research grants (European Union FP7, LIFE+, Cyprus Research Promotion Foundation X 2, International and other Local grants) bringing external funding totaling to over 3 million euros. In eight of these grants, he was the Principal Investigator or Work Package Leader.

Recently, Prof. Yiallourous, as the Principal Investigator, gained funding from EU LIFE+ for the MEDEA program, which commenced in September 2017 aiming to mitigate adverse health effects of desert dust storms using exposure-reduction approaches in vulnerable population groups such as children with asthma and heart arrhythmia patients. To date, Prof. Yiallourous' published work includes 120 publications in PubMed Journals that has been disseminated widely, including at several prestigious conferences (European Respiratory Society, Intern. Pediatric Pulmonology, EuroEpi), and has received international recognition. Now featuring around 23000 citations in the literature (Google scholar h-index: 51, i10-index: 87), this work has been published in high impact journals, including Clin Infect Dis, ERJ, Chest, Clin & Exp Allergy, Obesity, Archives Dis Child.

His teaching experience covers a broad range of subjects at undergraduate and postgraduate level, including a) human physiology taught for 10 years (2006-2015) to Master Students of mixed backgrounds that were taking the MSc programs of the Cyprus International Institute for Environmental and Public Health (Cyprus University of Technology) and b) main pediatric diseases taught every year to medical students of UCY Medical School coupled with bedside teachings based on patients clinical problems, including clerkship, history taking from patients, and diagnostic/management approaches for pediatric diseases.

Anneza Yiallourou

Dr A. Yiallourou graduated from the Medical School of the National and Kapodistrian University of Athens in 2006. She thereafter completed her residency in general surgery at the 2nd Department of Surgery of the Aretaieion University Hospital in 2014 in Athens. In 2014, she was awarded her PhD diploma with first-class honours from the Medical School of the National and Kapodistrian University of Athens for the subject "Association of circulating tumor cells, markers of apoptosis, homeostasis and markers of genetic heterogeneity that influence apoptosis in breast cancer - clinical relevance". Before her current position as an Assistant Professor in Surgery at the Medical School of University of Cyprus, she worked as a senior clinical fellow within the Breast Unit of the Royal Free Hospital (University of London, London, United Kingdom). During this period, she subspecialized in breast cancer surgery, and moreover, she was trained on innovative techniques for breast cancer patients, such as intraoperative radiotherapy for the breast, as well as electrochemotherapy for locally advanced breast cancer.

Her published research work consists of 47 peer-reviewed papers and numerous presentations at national and international medical conferences. Apart from her ongoing clinical and research work, she has been actively participating in the education and training of medical students of the University of Athens and University College of London, surgical residents and surgeons subspecializing in breast cancer surgery as part of the Master's degree in Surgical Oncology of the University of Athens Medical School. Furthermore, she was the academic supervisor of "Surgery", which is a subject of the 4th year of studies for the Medical degree at the Medical School of the University of Cyprus. Finally, she also delivers lectures and trains students on Breast Cancer surgery in the 6th year of their medical studies at the Medical School of the University of Cyprus.

Nikolas Dietis

Dr N. Dietis is an Assistant Professor of Pharmacology at the Medical School, University of Cyprus. He graduated from the University of Portsmouth (UK) with a BSc in Pharmacology, from Nottingham Trent University (UK) with a BSc (Hons) in Neuroscience and Pharmacology, from the Natural Sciences Research Centre in Nottingham Trent University with a Masters of Research (MRes) in Applied Biosciences (Neuropharmacology), and from the University of Leicester (UK) with a PhD in Pharmacology. Since 2006, he has been an active member of nine international scientific societies, he serves as an Associate Editor of the UK Journal of Pharmaceutical and Biosciences (UKJPB), and as a specialized reviewer for three international journals (BJP, JPET, EJMECH). Dr Dietis has considerable experience from the pharmaceutical industry sector after working as a medical officer in two pharmaceutical companies (Janssen-Cilag Co and Lavipharma Co). During that time, he was awarded with a Best Practices Award for excellent scientific support in medical sales. As an academic, he worked at the University of Tasmania (Australia) as a Lecturer in Pharmacology, where he received three Teaching Awards for teaching excellence and outstanding teaching contribution by the University of Tasmania and the Tasmanian Student Association. He has supervised 10 graduates, postgraduate and doctorate students that received six national and international awards during his supervision. He joined the UCY in 2015, where he coordinates and teaches Pharmacology to Medical undergraduates. He represents the UCY Medical School at the UCY Centre of Teaching and Learning Committee and the UCY Quality Assurance Committee. He also serves the Cyprus State Scholarship Foundation as an Examiner (nominated by the University of Cyprus).

Zacharias Zachariou

Prof. Z. Zachariou was born in Limassol in 1957. He graduated in 1985 from the Medical School of the University of Heidelberg, Germany (MD Diploma with dissertation). Between 1985 and 1991, he was trained in the Department of General Surgery, University of Heidelberg and in 1992 he obtained the specialty of General Surgeon. After a two-year additional postgraduate training, he acquired the sub-specialty of Pediatric Surgery. In 1994, he obtained a PhD in the area of small bowel transplantation with a competitive grant from DFG (Deutsche Forschungsgemeinschaft) at the University of Heidelberg. In 1994, he was appointed Assistant Professor of General Surgery and

Pediatric Surgery at the University of Heidelberg and, in 2000, Professor of Pediatric Surgery at the same University. From 1998 to 2003, he was Deputy Director of the Department of Pediatric Surgery, University of Heidelberg. In 2003, he was appointed Director and Chair of the Department of Pediatric Surgery at the University of Bern, Switzerland. In 2013, he was appointed Deputy Dean and Director of Phase III (clinical training) at the newly founded Medical School of the University of Cyprus and then Dean in 2015-2016.

He is a founding member of the European Pediatric Surgeons' Association and has been a treasurer for two terms and the President (2013-2015). Since 2014, he is a member of the Executive Committee of UEMS - Section Pediatric Surgery (European Commission for recognition of specialty). For 12 years, he participated in the ERASMUS Program as a visitor to the Department of Pediatric Surgery at the Aristotle University of Thessaloniki. He was repeatedly invited speaker in China, Poland, Egypt, Romania, Hungary, Russian Federation, Iran, Turkey, and Serbia. In 2004, he was awarded the title "Dr. honoris causa" of the Iuliu Hatieganu Medical University, Cluj-Napoca, Romania. In 2014, he got the title of guest professor at the University of Pecs Hungary and is in the process for being awarded the title of visiting professor at the University of Nis, Serbia. He is an Honorary Member of 8 Pediatric Surgery Associations and a member of the editorial board of the main scientific journals of Pediatric Surgery. He is the publisher of 2 Pediatric Surgery Books (Springer Berlin, Heidelberg) with Chinese, Russian and Greek translations and 4 CD-ROMs as interactive teaching instruments for application of Pediatric Surgery techniques. Moreover, he has teaching experience with medical students in Germany, Switzerland, and Cyprus as well as with residents and specialists in various hospital units.

Anastasia Constantinidou

Dr A. Constantinidou graduated with a first class from the Medical School of the National and Kapodistrian University in Athens Greece. She gained Membership of the Royal College of Physicians (MRCP) in the UK in 2005, specialist accreditation in Internal Medicine in 2006, and an MSc in Oncology (Merit) from the University of London in 2010. She completed her specialist clinical training in Medical Oncology at The Royal Marsden Hospital in London in 2011.

Subsequently, Dr Constantinidou was awarded a Wellcome Trust Clinical Research Fellowship for laboratory research in molecular pathology and gained her PhD from the

Institute of Cancer Research, University of London. Her basic science research has focused on the identification of genes involved in the process of cell differentiation as novel targets in cancer therapeutics with emphasis on epigenetics. She also has experience in translational research running early phase clinical trials.

She has been awarded a number of fellowships throughout her career including the Hellenic Society of Medical Oncology Clinical Training Fellowship and the ECCO-AACR-EORTC-ESMO Fellowship in Methods in Clinical Cancer Research Workshop as well as grants from the Wellcome Trust and the Sarcoma UK. Her published work includes peer-reviewed publications, chapters in books, guidelines, and monographs. She has been a co-investigator in over 80 UK, European, and International Phase I/II/III clinical trials in oncology and through competitive selection she has presented her work at many international conferences. Dr Constantinidou is a member of the American Society of Clinical Oncology (ASCO), the European Society for Medical Oncology (ESMO), and the European Organization for Research and Treatment of Cancer (EORTC).

Her teaching experience includes teaching of medical school students in London and trainees in internal medicine, medical oncology, and haematology as well as students of other Health Professional schools in pre- or postgraduate programs.

Nicos Middleton

Dr N. Middleton - BSc Statistics and Operational Research (UCL, 1997), MSc Health Care Decision Analysis (LSE and LSHTM, 1998), and PhD Epidemiology (University of Bristol, 2004) - is Associate Professor of Health Sciences Research Methodology and Biostatistics at the Department of Nursing, School of Health Sciences, Cyprus University of Technology (Assistant Professor 2009-2014, 2014-currently Associate Professor). He is Vice-Chair of the Department (2017- currently) and Director of the Doctoral programme. He has served as Department Chair (2015-2017) and Dean of the School of Health Sciences (2015-2017). Previous affiliations include the Department of Social Medicine, University of Bristol (Lecturer in Medical Statistics, 2004-2005), the Harvard School of Public Health (postdoctoral research fellow in Environmental Epidemiology, 2006-2008), and the Cyprus International Institute for Environmental and Public Health (Visiting Instructor in Epidemiology, 2006-2008). His teaching experience covers a broad range of research-oriented subjects in health sciences at undergraduate, postgraduate, and doctoral level, including Health Research Methodology, Epidemiology (Introduction, Applied, Mental Health, and Perinatal), Biostatistics and statistical software, Evidence-

based Practice, Systematic reviews and meta-analysis, and Scientific Writing and Presentation skills.

His research interests fall within social and geographical epidemiology, particularly with respect to population health inequalities and the social and physical environmental determinants of health. Now, featuring more than 4800 citations in the literature (Google scholar h-index=36, i10-index=77), work he authored/co-authored has been published in high impact journals, and disseminated widely at European and international conferences (IEA World Congress of Epidemiology, EUPHA European Public Health Conference, and others). He is a member of the International Epidemiological Association and the Society for Social Medicine (UK). He has also contributed as invited speaker at the “Social Epidemiology” course of the MSc Medical Research Methodology at the Department of Medicine, Aristotle University of Thessaloniki. In September 2015, he was appointed as Government Representative in the Board of Directors of the Health Insurance Organization.”

Anastassia Baxevasi

Dr Baxevasi is Assistant Professor at the Department of Mathematics and Statistics, University of Cyprus. She received her degree in Mathematics from the Aristotle University of Thessaloniki (Greece). She obtained a MSc in Mathematics from Purdue University (USA) in 1998 and a MSc in Applied Statistics from the same University in 2000. In 2004 she obtained her PhD in Mathematical Statistics from Lund University (Sweden), and the title of Docent in Mathematics from the University of Gothenburg, (Sweden) in 2011.

Before her current appointment at the University of Cyprus, Dr Baxevasi worked as post-doctoral fellow at the University of Nevada (USA) and as Lecturer and then Assistant Professor at the Department of Mathematical Statistics at the University of Gothenburg and Chalmers University of Technology, Sweden.

Besides her research activities, Dr Baxevasi has taught numerous courses in Probability and Statistics both at undergraduate and graduate levels.

Georgios Nikolopoulos

Dr G. Nikolopoulos is Associate Professor of Epidemiology and Public Health at the Medical School of the University of Cyprus. He earned his first degree in Dentistry (1998) from the Dental School of the National and Kapodistrian University of Athens, Greece and his MSc degree in Biostatistics (2002) and his PhD in Epidemiology (2008) from the Medical School of the same university. He served the Greek public health agency for more than a decade contributing to national strategic plans on public health and representing Greece to the World Health Organization and the European Centre for Disease Control and Prevention. He is member of the American College of Epidemiology and Certified in Public Health (CPH) by the United States (US) Board of Public Health Examiners. He taught courses on biostatistics, epidemiology, and research methods at many universities in Greece and Cyprus.

Dr Nikolopoulos, following an international competition (2012), received a 18-month post-doctoral research fellowship that was funded (75,000 \$US) by the International AIDS Society (IAS) and the United States (US) National Institute on Drug Abuse (NIDA). His research was on how macro-level economic and social changes may have affected HIV risk in the population of drug injectors in Greece. He has been the site (Athens, Greece and Nicosia, Cyprus) principal investigator of a multicenter prevention study entitled "Transmission Reduction Intervention Project - TRIP" that was funded by the National Institute on Health (NIH-NIDA DP1 DA034989 grant) with approximately 500,000 \$US managed by the Athenian site (2013-2016) and around 75,000 \$US by the UCY Medical School (2017-2018).

He has extensively investigated the dynamic characteristics of infectious diseases, including the molecular parameters of transmissions. He also has expertise in environmental epidemiology and in the conduct of systematic reviews and meta-analyses with useful contributions to the etiology of non-communicable diseases and to the evolving domain of genetic epidemiology. He has published more than 200 peer-reviewed articles in international journals and has received more than 6500 citations (per Google Scholar) on his work.

Aikaterini Pantavou

Dr A. Pantavou graduated from the Faculty of Physics of the National and Kapodistrian University of Athens and holds a MSc in Environmental Physics from the same university. In 2014, she received her PhD in Biometeorology/Environmental Epidemiology from the National and Kapodistrian University of Athens.

Prior to her current academic position as a post-doctoral researcher at the University of Cyprus, she worked as a scientific associate, post-doctoral researcher, contract lecturer in the undergraduate curriculum, and teaching assistant in a postgraduate program at the Department of Computer Science and Biomedical Informatics in the University of Thessaly. Moreover, she has worked as laboratory assistant at the Faculty of Physics of the National and Kapodistrian University of Athens.

She has been working in the fields of environmental physics, biometeorology, environmental epidemiology, and biostatistics. Her research interests include environmental impact assessment and environmental health, urban and human biometeorology, thermal comfort and thermal sensation, air quality, experimental campaigns, statistical analysis, epidemiologic methods, and meta-analysis.

She has published 50 papers in international scientific journals, has more than 1300 citations (Google Scholar) on her research (h-index: 17), and has been a reviewer for several international scientific journals.

Constantinos S. Pattichis

Dr C. Pattichis is currently Professor in the Department of Computer Science of the University of Cyprus. He received his diploma as technician engineer from the Higher Technical Institute in Cyprus and a BSc in Electrical Engineering from the University of New Brunswick in Canada. He holds two MScs: a) in Biomedical Engineering from the University of Texas, USA and b) in Neurology from the University of Newcastle Upon Tyne, UK. He holds a PhD in Electronic Engineering from the University of London, UK. His research interests include ehealth and mhealth, medical imaging, biosignal analysis, life sciences informatics, and intelligent systems. He has been involved in numerous projects in these areas with a total funding close to 10 million euros.

He has published 139 journal publications, 245 conference papers, and 30 chapters in books in these areas. His work has received more than 12000 citations with an h-index of 53. He is Co-Editor and serves as an Associate Editor in a great number of scientific journals. Moreover, he served as Chairperson of the Cyprus Association of Medical Physics and Biomedical Engineering (96-98), and the IEEE Cyprus Section (98-00).



Artemis Artemiadis

Dr Artemios Artemiadis was a visiting Assistant Professor of Neurology at the Medical School of the University of Cyprus (~~since October 2018~~ - Aug 2023) and has been Assistant Professor at the same school since Sep 2023. He graduated from the Medical School of the National Kapodistrian University of Athens in 2005 and was board-certified as clinical neurologist in 2016. He achieved his Master of Science degree with distinction on "The Science of Stress and Health Promotion" from the Medical School of the National Kapodistrian University of Athens in 2011. In 2018, he obtained his PhD degree with distinction by the same University, for his studies on the cognition in multiple sclerosis. He has also been certified as clinical investigator by the European Society of Clinical Investigation. His clinical and research interests include multiple sclerosis, cognition, volumetric brain imaging analysis, clinical neurophysiology, psychoneuroendocrinology of stress, and a large spectrum of neurological diseases including dementias, epilepsy and stroke. So far, his main scientific contributions include scientific research on cognition in multiple sclerosis and on the role of stress management in neurological and non-neurological diseases. He has authored more than 70 peer-reviewed publications in the field of clinical neurology and stress and has coached and mentored over 50 post-graduate students leading then to over 60 scientific publications, in total. He has a long teaching experience in clinical neurology, methodology of stress, and stress psychoneuroendocrinology in the affiliated Universities. He is also a reviewer in several reputable peer-reviewed neurological journals.

Nicos Mitsides

Dr Nicos Mitsides is currently a Visiting Lecturer in Nephrology and General Internal Medicine at the Medical School of the University of Cyprus and a practising Nephrologist at the Nicosia General Hospital. He was born in Nicosia in 1977 and graduated from The English School of Nicosia in 1996. He obtained his medical degree from the University of Manchester in 2004 and has practiced medicine in the United Kingdom for 17 years. He has held the NIHR Devices for Dignity Nephrology Innovation Research Fellowship and was awarded a PhD by the University of Manchester for his research work in salt and fluid overload in advanced Chronic Kidney Disease and haemodialysis in 2019. He has presented his work at a number of recognised international conferences and has published articles and book chapters in his area of clinical and academic interest. He is a Member of the Royal College of Physicians of UK and has completed his Speciality Certificate Examination in Nephrology in 2012. He was awarded a Certificate of



Completion of Training for the specialities of Nephrology and General Internal Medicine by the Royal College in 2018 and has worked as a Consultant Nephrologist first at Salford Royal Hospital NHS Foundation Trust and then at University Hospitals of Derby and Burton NHS Foundation Trust. Dr Mitsides has also a keen interest in the design and delivery of undergraduate and postgraduate clinical teaching and supervision. He holds a Postgraduate Diploma in Clinical Education awarded with Distinction by Edge Hill University in 2018 and has been a mentor for postgraduate medical trainees for the Royal College of Physicians. He is currently the postgraduate speciality training program coordinator for nephrology in the district of Nicosia. He aspires to continue to contribute to the development of clinical education curricula, portfolios and workplace assessments and to facilitate the nurturing of future doctors, nurses, and associate health specialist at various stages of their career.

Maria Koliou

Dr Maria Koliou is an Assistant Professor of Pediatrics and Infectious Diseases at the Medical School of the University of Cyprus since 2019, and she leads the Laboratory of Infections at the School. She studied Medicine at the University of Athens (1978-1984) with a full scholarship from the Greek State Scholarships Foundation (IKY) and specialized in General Pediatrics at the First Pediatric Clinic of the University of Athens at "Agia Sophia" Children's Hospital (1986-1990). She further specialized in Infectious Diseases at Great Ormond Street Hospital, Royal London Hospital, and St Bartholomew's Hospital in London (1999-2002). She completed her PhD thesis on the immunology of infections in neonates. She also obtained a Master's degree in Clinical Microbiology (MSc) and a second Master's degree in Public Health (MPH). From 1991, she worked as a clinical doctor in State Hospitals, and from 1996 at the Archbishop Makarios III Hospital in Nicosia, where she held the position of Assistant Director of the Pediatric Clinic from 2010. She established the Clinics of Infections and Immunology and the Research Laboratory of Infections at that hospital, which she also directed. Between 2011 and 2019, alongside her clinical work, she worked for two days a week at the Surveillance and Control Unit of Communicable Diseases of the Ministry of Health, serving as the Unit Coordinator. In this capacity, she represented Cyprus at the European Centre for Disease Prevention and Control (ECDC) as the National Contact Point for various subjects, including preparation and response to potential epidemics, influenza, vaccine-preventable diseases, diseases transmitted by vectors, and emerging infectious diseases. She was involved in the development of programs for the prevention and management of communicable diseases in Cyprus and contributed to the

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development of the National Programs for the control of the newly emerging diseases in the world, such as Ebola hemorrhagic fever, Zika virus disease, and a plan for managing the possible indigenous transmission of malaria in Cyprus. During the same period, she was also responsible for the National Vaccination Programs for children in Cyprus (EPI Manager) and a member of the National Vaccination Committee. She has significant experience in teaching, having taught at the Cyprus University of Technology (Nursing Department) from 2008 to 2012, at the St. George's Medical Program at the University of Nicosia from 2011 to 2019, and at the Medical School of the University of Cyprus from 2015 to the present. Over the last 14 years, she has worked on 8 different research programs that received funding from either the European Commission (FP5), the Research Promotion Foundation (RPF), or other local and international organizations. In three of these programs, she was the Scientific Coordinator. Some of these programs involved collaborations with researchers from other countries, such as the United Kingdom, Greece, Sweden, and Finland. Her research work has resulted in 63 publications in peer-reviewed scientific journals in english.

Panayiotis Kouis

Dr Panayiotis Kouis is a biologist by training and holds a MSc in Molecular Medicine from the Cyprus Institute of Neurology and Genetics and a MSc in Environmental Health from the Cyprus International Institute for Environmental and Public Health in association with the Harvard School of Public Health (CII). In 2017, he received his PhD in Environmental Health from the Cyprus International Institute of Environmental and Public Health (Cyprus University of Technology). Between 2013 and 2017, he was employed as a research scientist at the Cyprus University of Technology and between 2017 and 2022 he was employed as a post-doctoral research scientist and project manager at the Medical School of the University of Cyprus. Since April 2023, he is a visiting Lecturer in Biology and Public Health at the same School. His research activities include the study of the public health impact of environmental exposures and climate change as well as the performance of observational and randomized trials in cohorts of chronic respiratory disease patients. He has substantial expertise in several areas of epidemiology, in clinical and field-based studies as well as in public health modelling and health impact assessment (HIA) methodologies. In addition, he has been actively involved in research activities focusing on synthesis of clinical evidence, meta-research and cost-effectiveness analyses in healthcare for the development of clinical guidelines and to inform public health policy making.

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Vasilis Promponas

Dr Vasilis Promponas is an Associate Professor and Head of the Bioinformatics Research Laboratory (BRL) at the Department of Biological Sciences, University of Cyprus. He holds a BSc in Physics (University of Athens, 1996) and a PhD in Biological Sciences (University of Athens, 2004). He has received an EMBL-EBI visitors program fellowship (1998) and conducted Postdoctoral research at the Department of Cell Biology and Biophysics (University of Athens, 2004-2005), before establishing the BRL (2005). His research interests focus on the development of empirical, statistical and machine learning methods/tools and specialized databases for exploiting available types of biological information towards understanding biological systems, ranging from macromolecules and macromolecular complexes to phenotypes. Key contributions of the BRL are in the fields of sequence analysis and protein structural bioinformatics, computational comparative genomics, and biomedical text mining. During the last decade, the BRL has established a strong research interest towards the characterization and study of proteins and processes related to eukaryotic endomembrane systems, (e.g., nuclear pore complexes, autophagy) using computational and functional genomics approaches. Currently, he is a member of the steering committee for the implementation of the ELIXIR-CY node.

The biographical notes of the Academic / Teaching Personnel are attached at the end of the present application.

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7. Program's courses and the Teaching Personnel teaching each course, for every year of studies (See Specific Instructions):

The curriculum includes 11 modules, 8 compulsory and 3 elective modules, and a master thesis.

The titles of the modules are:

1. Introduction to Medical Research
2. Introduction to Medical Statistics
3. Statistical Computing in Medical Research
4. Introduction to Epidemiology
5. Clinical Trials
6. Ethics in Medical research
7. Advanced Methods of Data Analysis in Medical Research
8. Measurement in Clinical Settings
9. Systematic Review and Meta-analysis (elective)
10. Introduction to Qualitative Research (elective)
11. Bioinformatics (elective)

The teaching staff consists mainly of faculty members of the UCY Medical School, the Departments of Mathematics and Statistics, of Computer Science, and of Biological Sciences, and one faculty member of the Cyprus University of Technology as scientific collaborator. The teaching staff by School / Department is shown below:

University of Cyprus:

Medical School

Faculty members:

Panayiotis Yiallourous, Anneza Yiallourou, Nikolas Dietis, Zacharias Zachariou, Anastasia Constantinidou, Georgios Nikolopoulos, Artemis Artemiadis, Nicos Mitsides, Maria Koliou, Panayiotis Kouis.

Scientific collaborators:

Aikaterini Pantavou (Research fellow),

Research fellow (for the elective module "Introduction to Qualitative Research")

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Department of Mathematics and Statistics,

Faculty members: Anastassia Baxevani

Department of Computer Science

Faculty members: Constantinos Pattichis

Department of Biological Sciences

Faculty members: Vasilis Promponas

External scientific collaborators:

Faculty members: Nicos Middleton (Faculty of Health Sciences, Cyprus University of Technology)

Coordinator:

The coordinator of the MSc in Methods in Medical Research is Dr G. Nikolopoulos, Associate Professor, Medical School, University of Cyprus.

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7. Program's courses and the Teaching Personnel teaching each course, for every year of studies (See Specific Instructions):

The curriculum includes 8 modules and a master thesis, all compulsory. The titles of the modules are:

1. Introduction to Medical Statistics
2. Statistical Computing in Medical Research
3. Introduction to Epidemiology
4. Clinical Trials
5. Ethics in Medical research
6. Advanced Methods of Data Analysis in Medical Research
7. Systematic Review and Meta analysis
8. Measurement in Clinical Settings Systematic Review and Meta analysis
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University of Cyprus:

Medical School

~~Faculty members: Panayiotis Yiallouras, Anneza Yiallourou, Nikolas Diotis, Zacharias Zachariou, Anastasia Constantinidou, Georgios Nikolopoulos, Artemis Artemiadis, Nicos Mitsides, Maria Koliou, Panayiotis Kouis.~~

~~Scientific collaborators: Aikatorini Pantavou (Research fellow)~~

~~Department of Mathematics and Statistics~~

~~Faculty members: Anastassia Baxevani~~

~~Department of Computer Science~~

~~Faculty members: Constantinos Pattichis~~



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION



6. Program's courses and the Teaching Personnel teaching each course, for every year of studies (See Specific Instructions):

The curriculum includes 11 modules , 8 compulsory and 3 electives, and a master thesis..

The titles of the modules are:

1. Introduction to Medical Research
2. Introduction to Medical Statistics
3. Statistical Computing in Medical Research
4. Introduction to Epidemiology
5. Clinical Trials
6. Ethics in Medical research
7. Advanced Methods of Data Analysis in Medical Research
8. Measurement in Clinical Settings
9. Systematic Review and Meta-analysis (elective)
10. Introduction to Qualitative Research (elective)
11. Bioinformatics (elective)

The teaching staff consists mainly of faculty members of the UCY Medical School, the Departments of Mathematics and Statistics, of Computer Science, and of Biological Sciences, and one faculty member of the Cyprus University of Technology as scientific collaborator. The teaching staff by School / Department is shown below:

University of Cyprus:

Medical School

Faculty members:

Panayiotis Yiallourous, Anneza Yiallourou, Nikolas Dietis, Zacharias Zachariou, Anastasia Constantinidou, Georgios Nikolopoulos, Artemis Artemiadis, Nicos Mitsides, Maria Koliou, Panayiotis Kouis.

Scientific collaborators:

Aikaterini Pantavou (Research fellow).

Research fellow (for the elective module "Introduction to Qualitative Research")

Department of Mathematics and Statistics

Faculty members: Anastassia Baxevani

Department of Computer Science

Faculty members: Constantinos Pattichis

Department of Biological Sciences

Faculty members: Vasilis Prombonas

External scientific collaborators:

Faculty members: Nicos Middleton (Faculty of Health Sciences, Cyprus University of Technology)

26

Coordinator:



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
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8. Administrative structure of the institution's programs of study, including the program in the proper position (i.e. by indicating the School and Department under which the program operates, by noting whether the program is inter-university, inter-departmental etc) (See *Specific Instructions*):

The MSc in "Methods in Medical Research" is a program that is organized and run by the Medical School of the UCY.

Dean of Medical School, Prof. Georgios Hadjigeorgiou
Rector of University of Cyprus, Prof. Tasos Christofides

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**10. 9. Regulations and Procedures for Quality Assurance for the program of study
(See Specific Instructions):**

Developing, approving and offering of study programmes

A post-graduate program is developed by departmental faculty members, the Study Programs Coordinators of the Department, who undertake the necessary actions/are responsible for the program's proper functioning both at academic and operational level, once it has been accredited to be offered. As the institutional framework dictates, a new study program can be developed, in order to meet the society's needs, and after feasibility study, activity-based costing, teaching work load, and possible additional needs/resources have been considered. The proposal for its assessment consists of the following:

1. Title of study program in both Greek and English.
2. Grounds of the proposal:
 - Description of program's scope and aim.
 - General needs to be met, especially in research, specifying their impact on society.
 - Feasibility study, activity-based costing, teaching work load, and possible additional needs/resources.
 - Specifying the existing expertise and know-how of Departmental Faculty members on the subject to enable the Department to offer it.
3. Number of students to be admitted to the program.
4. Grand total of European Credit Transfer System (ECTS) points required.
5. Duration of the program (Minimum number of semesters).
6. The program should specify the title that its completion requirements will lead to (e.g. Magister Artium, Magister Scientiae, Magister Engineering).
7. Criteria – Admission Requirements have to be specified. Since access to the second and third cycle (Master and PhD) implies the existence of the first-cycle Diploma and a second cycle diploma accordingly, candidates must hold a degree accordingly in a subject related to their proposed field of study or the minimum grade of the previous diplomas required.
8. Admissions procedures: application, assessment and selection procedures have to be described clearly (e.g. candidates are also required to have a personal interview or/and take a written exam).
9. Clarification on whether undertaking Dissertation is mandatory or not.
10. Program's structure for each semester.

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44. Particular information/data should be provided for each course:

- ➤ Course title in both Greek and English.
- ➤ Course description in both Greek and English.
- ➤ Course Code in the curriculum.
- ➤ Kind of the course (e.g. compulsory, compulsory and elective, or elective).
- ➤ Course assessment.
- ➤ ECTS points required for the course.
- ➤ Justification for the number of ECTS points.

The proposal regarding the newly designed program is submitted to the relevant governing bodies for approval, following a specific flow of steps as presented below:

1. Approval by Departmental Board
2. Approval by School Board
3. Approval by Graduate School (in terms of its academic aspect) and in turn by Planning and Development Committee, a Senate Committee (in terms of its financial aspect).
4. Approval by Rector's Council.
5. Approval by Senate.
6. Program announced and launched to be offered.

As University legislation dictates, in cases where the tuition fees of the new program differentiate from the fee amount in force, and before announcing that the new study program is about to be offered, additional approval of the particular financial aspect is necessary, initially by the University Council and then by the Council of Ministers.

The aforementioned procedure is followed as well when Departments submit established study programs for review.

Study Program Review

Postgraduate programs are reviewed when the Study Programs Coordinators of the Department consider that it must be done so due to important reasons, such as discovery of new theoretical aspects of the subject or of new technological grounds, change in society's or students' needs, necessity to enhance program's attractiveness. The procedure followed for the review is the one described above.

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Internal Evaluation

Teaching Evaluation:

All matters and aspects concerning the support and continuous development of teaching / learning at UCY have been encompassed and presented in the mission and objectives of the UCY Centre for Teaching and Learning (founded in 2014). The Centre is managed by its 11-member Board appointed by the Senate. Its main goals are:

- The development of a policy on teaching, learning, and evaluation at the undergraduate and graduate level.
- The support of Departments and academic staff on matters of development of Study Programs.
- The support of Departments and academic staff on matters of planning, management, and evaluation of teaching.
- The monitoring and upkeep of supporting infrastructure for teaching.
- The support of Departments and of all those involved in teaching, learning, and production of teaching material.
- The development of mechanism and of strategies for quality assurance in teaching.
- The development of study skills for all those involved in learning process.
- The development of a system for the evaluation of teaching and the organization, management, and safe keeping of data.
- The development of mechanisms for rewarding and disseminating “good practices” and quality teaching.
- The promotion of the eLearning Policy of the University of Cyprus.

Evaluation of Didactic/Teaching material/content:

Each Academic Department is autonomous, managed by the Departmental Board composed of its academic staff and student representatives (number equal to the nearest integer to the one third of all members of the academic staff of the Department). The Departmental Board constitutes sub-committees among its members and delegate to them competences regarding academic issues: A) Recommendation of changes, review or abolition of operating study programs, and B) Submission of proposals, for development and launching of new study programs, to the Board, on the basis of new needs. All recommendations and proposals initially discussed by the Departmental Board are then submitted to the relevant governing bodies for approval, following the aforementioned flow of steps. With this framework of the initial quality assurance mechanism, both the ongoing monitoring of the operating programs and the necessary

feedback provided to all governing bodies, are ensured to take place in the Department. At the same time, it is made sure that they are properly educated and trained with the latest trends on the subject.

Based on the University Senate's decision, the study program evaluation/accreditation is part of the external Departmental Evaluation, as an academic unit, conducted by a 5-member Advisory Committee consisting of independent external experts, under the Rectorate's authority, taking place every five years. Specifically, the decision dictates continuous evaluation/accreditation of quality assurance of the Departmental Work (teaching-research-administration), resulting in input for the strategic development of each department as well for the overall institutional evaluation undertaken by the European Universities Association (EUA) every five years. Hence, study programs are being accredited by the International Advisory Committee, based on internationally accepted quantitative and qualitative criteria and indicators, in the context of the Departmental teaching quality evaluation. The Committee, after studying the departmental self-evaluation report, discusses and interviews various Departmental and University stakeholders (Rector, Vice-Rector, Vice-Rector for Academic Affairs, Faculty Dean, Chairman and Vice-Chairman of the Department, academic and administrative staff, representatives of students) to prepare and submit to the Rector the External Evaluation Report for the Department. The Report contains conclusions, recommendations, and suggestions for improvement concerning study programs, course assessment, and teaching methodology. The report is then submitted to the Rector's Council for detailed discussion and approval of the suggestions to be adopted. Finally, the Planning and Development Committee is being informed in order to determine and proceed with a timely and efficient adoption of the suggestions.

44.10. Research Activities of the teaching personnel involved in the program and synergies between research and teaching:

Panayiotis Yiallourous

(July 2023) - Publications: 121, Citations: 14966, h-index: 41 (Scopus);

Citations: 23636, h-index: 51 (Google Scholar)

The research agenda of Prof. Yiallourous includes four major areas: (a) Epidemiological studies on child health for conditions such as asthma, obesity, vitamin D deficiency; (b) Cutting edge studies to understand important factors implicated in the development of asthma and comorbidities, such as obesity, dyslipidemia, and reduced activity, investigating particularly interactions of asthma with air pollution (especially desert dust storms), lifestyle factors (caesarean section delivery, vitamin D status), and genetic background; (c) Clinical studies on manifestations, diagnostics, and outcomes of chronic pediatric lung conditions, such as Primary Ciliary Dyskinesia and Cystic Fibrosis; (d) Consensus and policies papers on active and healthy ageing and respiratory disease management developed jointly with panels of experts from Europe and the world.

His teaching experience is related to his research interests and covers a broad range of subjects at undergraduate and postgraduate level including: a) human physiology taught for 10 years (2006-2015) to Master Students of mixed backgrounds that were taking the MSc programs of Cyprus International Institute for Environmental and Public Health (Cyprus University of Technology) and b) main pediatric diseases taught every year to medical students of UCY Medical School coupled with bedside teachings based on patients clinical problems, including clerkship, history taking from patients, and diagnostic/management approaches for pediatric diseases.

Based on his research, teaching, and clinical experience, Prof. Yiallourous will teach the module Measurement in Clinical Settings, ~~and~~ the module Ethics in Medical Research, ~~and the Module Introduction to Medical Research.~~

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Anneza Yiallourou

(July 2023) - Publications: 47, Citations: 1188, h-index: 14 (Scopus);
Citations: 2530, h-index: 18 (Google Scholar)

Dr Yiallourou's research interests include the study of prognostic markers in breast cancer, the clinical relevance of genetic heterogeneity of apoptosis markers in breast cancer, the targeted Intraoperative Radiotherapy in breast cancer, barriers and quality indicators for breast cancer screening, the study of quality of life of women who underwent breast cancer surgery, and novel techniques in surgical education.

Over the last 15 years, she has been involved in education and training - closely related to her clinical and research work - of medical students of the University of Athens and of the University College of London, and of residents in surgery and surgeons subspecializing in breast cancer surgery as part of the Master's course in Surgical Oncology of the University of Athens, Medical School. She was the academic supervisor of the module in surgery that includes lectures, and clinical training and teaching for 4th year students of the Medical School at the University of Cyprus. Finally, she teaches 6th years students about Breast Cancer surgery.

Based on her research, teaching, and clinical experience, Dr Yiallourou will teach about the epidemiology of chronic, non-communicable diseases in the module of Introduction to Epidemiology [and the Module Introduction to Medical Research](#).

Nikolas Dietis

(July 2023) - Publications: 19, Citations: 504, h-index: 11 (Scopus);
Citations: 735, h-index: 11 (Google Scholar)

Dr Dietis' research focuses on novel drug discovery and drug repurposing in characterized targets in chronic diseases through high-throughput screening against known molecular targets in major chronic diseases. He leads the Experimental Pharmacology Laboratory of the UCY Medical School (dietislab.org), which aims to host the first clinical and novel Drug Library in Cyprus. Dr Dietis has received a total amount of €190,000 in international peer-reviewed grants for his research, has published a number of articles in international peer-reviewed journals (average IF 4.31), has presented his work in a number of international meetings, and has been invited to speak

at international conferences as an expert in opioid pharmacology. He has received three research awards for his work (the iQube Award by the University of Leicester, the Schachter Award and the Bain Memorial Bursary Award by the British Pharmacological Society).

Dr Dietis has long-term teaching experience both at undergraduate and graduate level and tries to develop synergies between teaching and research. His teaching portfolio includes teaching and learning activities of integrated, research-informed material from his own work in molecular pharmacology and the use of this material in self-directed methods of learning. He also represents the UCY Medical School at the UCY Centre of Teaching and Learning.

Based on his research and teaching experience, Dr Dietis will teach the module of Ethics in Medical Research and the Module Introduction to Medical Research.

Zacharias Zachariou

(July 2023) - Publications: 100, Citations: 815, h-index: 16 (Scopus)

The research interests of Prof. Zachariou are in the entire spectrum of pediatric surgery. Prof. Zachariou has published a large number of scientific articles and 2 Pediatric Surgery Books in German (Springer Berlin, Heidelberg) that have been translated in Chinese, Russian, and Greek, and created 4 CD-ROMs, as an interactive teaching instrument for application of Pediatric Surgery techniques.

He has long-term teaching experience that is closely related with his clinical and research work with medical students in Germany, Switzerland, and Cyprus, as well as with medical residents and specialists in various hospital units. He has also given many lectures on ethical issues in medical research and practice.

Based on his research, teaching, and clinical experience, Prof. Zachariou will teach the module of Ethics in Medical Research.

Anastasia Constantinidou

(July 2023) - Publications: 81, Citations: 1695, h-index: 22 (Scopus);
Citations: 2480, h-index: 26 (Google Scholar)

Dr Constantinidou is interested in translational research with emphasis on personalized and precision medicine aiming to identify new targets for anticancer therapy and biomarkers to guide response assessment, to study the role of epigenetic changes in cancer development and progression, and to explore the potential of these changes to become targets for therapy and functional imaging in humans and its role in the assessment of biological changes during disease progression.

Dr Constantinidou has teaching experience related to her clinical and research work that includes teaching of medical school students in London and of trainees in internal medicine, medical oncology, and haematology as well as of students of other Health Professions schools in pre - or post-graduate programs. Dr Constantinidou is the coordinator of the MSc Program in Precision Medicine in Clinical Practice at the Medical School of the University of Cyprus. Additionally, she teaches the module of Clinical Trials in that program.

Based on her research, teaching, and clinical experience, Dr Constantinidou will teach the module of Clinical Trials.

Nicos Middleton

(July 2023) - Publications: 116, Citations: 2745, h-index: 29 (Scopus);
Citations: 4810, h-index: 36 (Google Scholar)

Dr Middleton's main research interests fall within the field of social and geographical epidemiology, and, in particular, with regards to population health inequalities and their social and physical environmental determinants. He has extensive experience in the design and analysis of epidemiological studies, as well as the use of routine data for epidemiological research (mortality and cancer registries, hospital episodes statistics, and census data) both from the UK as well as from Cyprus. While in the UK (2004-2007), he was responsible for the management of the database of the historic Boyd Orr Cohort. From 2007 onwards, he was involved as lead Epidemiologist/Biostatistician in the largest-scale to date epidemiological studies on childhood asthma and allergies carried out in Cyprus (Principal Investigator: Prof. Yiallourous). Among providing a wealth of data on the prevalence and determinants of childhood asthma and allergies in Cyprus, the series of

studies explored a long list of cutting-edge research questions, such as the role of caesarean sections, hypovitaminosis D, obesity, and lipids. This work has also introduced GIS as a vital epidemiological tool, which was practically absent from the Public Health arena in Cyprus. Furthermore, aspects of this work have attracted considerable international attention, and, in particular, with regards to the risks of long-range transport of Saharan dust across the Mediterranean to cardio-respiratory health, an original finding which was since replicated in studies across several Southern European locations.

Currently, he is involved in the MEDEA project funded by Life+ (Principal Investigator: Prof. Yiallouras, Host: UCY, 2017-2021), which will assess the adoption of a strategic plan through exposure reduction measures in mitigating the health effects of desert dust on vulnerable population groups, including asthmatic children. Dr Middleton has participated in several research projects as project coordinator or co-investigator funded by European or local agencies. More recently, he was the scientific coordinator of the research program "BrEaST start in life" funded by the EEA NGO Grants (2014-2015), a longitudinal study of mother-child dyads to provide first-time indicators and determinants of breastfeeding in Cyprus, which was followed by the "Baby Buddy Forward" project, funded by Erasmus + (2017-2020), a participatory action research project to develop an online perinatal educational program customized to the learning needs of parents-to-be and new parents in Cyprus.

Over the years, he has been teaching in a great number of undergraduate and post graduate courses and he has supervised, co-supervised or acted as an external statistical advisor for a large number of epidemiological studies by MSc, PhD students and post-doc/young researchers. In his teaching, he is in a position to use and discuss practical examples of epidemiological studies from Cyprus that he has been involved in over the years.

Based on his research and teaching experience, Dr Middleton will teach the basic principles of epidemiology and about the design of observational studies in the context of the module Introduction to Epidemiology.

Anastassia Baxevasi

(July 2023) - Publications: 24, Citations: 341, h-index: 9 (Scopus);
Citations: 537, h-index: 12 (Google Scholar)

Dr Baxevasi research interests lie in the area of Stochastic spatio-temporal fields, non-Gaussian Stochastic models, Stochastic processes, Applied probability, Environmental and Engineering applications, Environmental and Spatial Statistics.

Dr Baxevasi will teach the module Introduction to Medical Statistics.

Georgios Nikolopoulos

(July 2023) - Publications: 204, Citations: 4444, h-index: 37 (Scopus);
Citations: 6680, h-index: 43 (Google Scholar)

The research interests of Dr Nikolopoulos include HIV epidemiology and prevention, infectious disease epidemiology and prevention, systematic reviews in the fields of epidemiology and public health, methodology of meta-analysis, network meta-analysis, genetic epidemiology of communicable and non-communicable diseases, and environmental exposures and health.

He has extensively investigated the dynamic characteristics of infectious diseases, including the molecular parameters of their transmission, and a recent, large HIV outbreak among people who inject drugs in Athens, Greece. His research has been expanded on developing measures to study how macro-level economic and social changes may have affected HIV risk in the population of drug injectors. He has been the site (Athens, Greece and Nicosia, Cyprus) principal investigator of a multicenter prevention study entitled "Transmission Reduction Intervention Project - TRIP" that was funded by the National Institutes of Health (NIH-NIDA DP1 DA034989 grant). TRIP has shown that the social networks of people recently infected by HIV (who are more likely to transmit) are richer in other people who also acquired HIV recently. Therefore, individuals with recent HIV infection and their networks can be the targets of HIV prevention interventions.

Dr Nikolopoulos has expertise in environmental epidemiology and in the conduct of systematic reviews and meta-analyses with useful contributions to the etiology of non-communicable diseases and to the evolving domain of genetic epidemiology.

Dr Nikolopoulos has long-term teaching experience with undergraduate and graduate students of Medical and other schools, and has been teaching as an instructor to

conferences, seminars, symposiums, and other scientific events. Dr Nikolopoulos tries to use teaching examples from his research and strongly promotes the participation of students in research projects. He has supervised or mentored 7 projects of graduate (MSc) students, whose results (of most of them) have been published in peer-reviewed journals or presented at local (Greece) or international conferences. He is supervisor of a PhD student and has mentored three others (one of them has graduated). The work of these PhD students has been published in peer-reviewed journals or presented at local (Greece) and international conferences. Dr Nikolopoulos also encourages undergraduate students to take part in research projects. During his first year at the Medical School of the University of Cyprus, he supervised research work of undergraduate students that has been presented at conferences in Cyprus and Greece, while one of them has been submitted for publication to a peer-reviewed journal.

Based on his research and teaching experience, Dr Nikolopoulos will teach the largest part of the module Advanced Methods of Data Analysis in Medical Research.

Moreover, Dr Nikolopoulos will also contribute with a small number of lectures to the following modules: [Introduction to Medical Research](#), Statistical Computing in Medical Research, Introduction to Epidemiology, and Systematic Review and Meta-analysis.

Aikaterini Pantavou

(July 2023) - Publications: 50, Citations: 969, h-index: 15 (Scopus);
Citations: 1374, h-index: 17 (Google Scholar)

Dr Pantavou has been working in the fields of environmental physics, biometeorology, environmental epidemiology, and biostatistics. Her research interests include the assessment of environmental impact on human health, urban and human biometeorology, thermal comfort and thermal sensation, air quality, experimental campaigns, data analysis, epidemiologic methods, and meta-analysis. She has served as a reviewer for several peer-reviewed journals.

Dr Pantavou has high-level expertise in data analysis and programming in statistical software such as Stata and SPSS. She has also teaching experience with undergraduate and graduate students in areas closely related with her research work.

Based on her research and teaching experience, Dr Pantavou will teach the module of Statistical Computing in Medical Research. Moreover, Dr Pantavou will also contribute with a small number of lectures to the following module: Systematic Review and Meta-analysis.

Constantinos S. Pattichis

(July 2023) - Publications: 359, Citations: 6156, h-index: 39 (Scopus);
Citations: 12043, h-index: 53 (Google Scholar)

Dr Pattichi's research interests include ehealth and mhealth, medical imaging, biosignal analysis, life sciences informatics, and intelligent systems. He has 25 years of experience in the development of ehealth systems and analyzing medical data covering the full medical spectrum (clinical, genetic, biosignals and medical imaging). He has participated in a significant number of research projects, and has published extensively in these research areas.

He has also taught relevant postgraduate courses in Artificial Intelligence, Data Mining, Neural Networks, Pattern Recognition, Visual Computing, Image and Video Processing and Analysis, Computer Vision, and other. He has supervised 15 doctoral dissertations, 47 postgraduate M.Sc. thesis and more than 150 undergraduate projects, all focusing on eHealth in the above subjects.

Based on his teaching and research experience, Dr Pattichis will teach part of the module Advanced Methods of Data Analysis in Medical Research.

Artemis Artemiadis

(July 2023) - Publications: 79, Citations: 927, h-index: 16 (Scopus);
Citations: 1850, h-index: 22 (Google Scholar)

Dr Artemiadis' clinical and research interests include multiple sclerosis, cognition, volumetric brain analysis, clinical neurophysiology, psychoneuroendocrinology of stress and a large spectrum of neurological diseases including dementias, epilepsy, and stroke. So far, his main scientific contributions include scientific research on cognition in multiple sclerosis and on the role of stress management in neurological and non-neurological diseases. Moreover, through his MSc and PhD degrees, he has a sound knowledge of data analysis methods and has conducted many systematic reviews. He has also a long teaching experience in clinical neurology, methodology of stress, and stress psychoneuroendocrinology.

Based on his research and teaching experience, Dr Artemiadis will contribute to the following modules: Advanced Methods of Data Analysis in Medical Research and Systematic Review and Meta-analysis.

Nicos Mitsides

(July 2023) - Publications: 14, Citations: 220, h-index: 8 (Scopus);
Citations: 310, h-index: 9 (Google Scholar)

Dr Mitsides' research interests include chronic kidney disease. He is also a clinician (nephrologist) with large experience in the United Kingdom health-care system. Dr Mitsides has also a keen interest in the design and delivery of undergraduate and postgraduate clinical teaching and supervision. He holds a Postgraduate Diploma in Clinical Education awarded with Distinction by Edge Hill University in 2018 and has been a mentor for postgraduate medical trainees for the Royal College of Physicians. He is currently the postgraduate speciality training program coordinator for nephrology in the district of Nicosia. Finally, he contributes to teaching the module of Clinical Trials in the MSc program in Precision Medicine in Clinical Practice at the Medical School of the University of Cyprus.

Based on his research, teaching, and clinical experience, Dr Mitsides will contribute to the module of Clinical Trials.

Maria Koliou

(July 2023) - Publications: 63, Citations: 1663, h-index: 19 (Scopus);
Citations: 2934, h-index: 26 (Google Scholar)

Dr Koliou's research interests include infectious diseases and in particular clinical microbiology and surveillance. Over the last 14 years, she has worked on 8 different research programs that received funding from either the European Commission (FP5), the Research Promotion Foundation (RPF), or other local and international organizations. Moreover, she has great experience as a paediatrician and infectious diseases specialist as well as a surveillance expert at the Ministry of Health in Cyprus. She was involved in the development of programs for the prevention and management of communicable diseases in Cyprus and contributed to the development of the National Programs for the control of newly emerging diseases. She has also significant experience in teaching having taught at various institutions in Cyprus.

Based on her research, teaching, and clinical experience, Dr Koliou will teach about

the epidemiology of communicable diseases in the module of Introduction to Epidemiology.

Panayiotis Kouis

(July 2023) - Publications: 45, Citations: 561, h-index: 14 (Scopus); Citations: 796, h-index: 16 (Google Scholar)

Dr Kouis' research activities include the study of the public health impact of environmental exposures and climate change as well as the performance of observational and randomized trials in cohorts of chronic respiratory disease patients. He has substantial expertise in several areas of epidemiology, in clinical and field-based studies as well as in public health modelling and health impact assessment methodologies. In addition, he has been actively involved in research activities focusing on synthesis of clinical evidence, meta-research and cost-effectiveness analyses in healthcare for the development of clinical guidelines and to inform public health policy making. He has been teaching the undergraduate students at the Medical School since 2021.

Based on his research experience, Dr Kouis will contribute significantly to Measurement in Clinical Settings. He will also contribute to Statistical Computing in Medical Research and Advanced Methods of Data Analysis in Medical Research.

Vasilis Promponas

(Dec 2023) - Publications: 76, Citations: 7243, h-index: 22 (Scopus); Citations: 12910, h-index: 25 (Google Scholar)

Dr Promponas' research interests cover the development of empirical, statistical and machine learning methods/tools and specialized databases for exploiting available types of biological information towards understanding biological systems, ranging from macromolecules and macromolecular complexes to phenotypes.

His teaching experience is related to his research interests and covers the teaching of bioinformatics at the undergraduate and postgraduate level.

Based on his research and teaching, Dr Promponas will teach the module of Special Topics in Bioinformatics.



42.11. Feasibility study which must, include, amongst others:

- The proposed number of students
- Graduates' employability prospects

Proposed number of students: 15 per academic year.

Graduates' employability prospects: Research efforts in the fields of medicine and health in Cyprus need improvement. The lack of medical schools insofar has resulted in less rigorous training of medical doctors and other scientists on research methodology and also in less funding for the conduct of scientific studies including the evaluation of health services and the conduct of randomized clinical trials, which dominate medical research and influence contemporary medical practice.

The proposed MSc course in Methods in Medical Research comes to fill this gap. The program is expected to attract the interest of physicians who practice in Cyprus and of other scientists who would like to be involved in medical and health-related research but have not been given the opportunity to do so, particularly at high-quality academic institutions widely recognized as such by the Cypriot society such as the University of Cyprus and its newly established Medical School.

The proposed MSc course in Methods in Medical Research is anticipated to help physicians, health-care professionals, and other scientists who will attend it to get the necessary foundations and knowledge, and develop the appropriate skills, so as to comprise a critical mass of researchers who can lead future medical and health-related research in Cyprus. The graduates of the proposed MSc course in Methods in Medical Research are currently employees of or are expected to start working with governmental and non-governmental agencies, hospitals and universities, and will contribute to the quantitative and qualitative advancement of research in Cyprus. This is very important given the upcoming reform of the health-care system. Some of them may continue for a PhD. High-quality research in all health-related institutions in Cyprus is reasonably expected to facilitate the evaluation of and significantly improve the provision of medical services to the population of Cyprus.

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43.12. Student welfare mechanisms for monitoring the sufficiency of student support

The Academic Affairs and Student Welfare Service (A.A.S.W.S.) of the University of Cyprus through the specialized sectors (Studies Sector, Welfare Sector) and offices (Service Support Office, Information System Office, Housing Offices, Social Support Office, Student Life Office, Psychological Support Office, Career Office) offers vital services in various areas like studies, careers, personal guidance, social and psychological support, accommodation, student activities, athletic activities, and health. More specifically the A.A.S.W.S.:

- provides information for admissions regulations and programs of study; it prepares schedules and examination programs; it issues certificates of study, etc.
- offers confidential counselling services and provides guidance and help to students with academic, economic, personal, and financial problems.
- encourages students to participate in group activities, and offers guidance in areas that concern student life and welfare such as accommodation, catering, and scholarships or other financial assistance.
- helps students and graduates make career decisions and find internships. It also places students in various services and departments of the University to help them gain experience and earn important skills.

Each student is appointed an Academic Counselor, a faculty member, who follows the academic course of the student and guides him / her, especially if he / she faces problems with his / her academic performance. Additionally, all academics set office hours where meetings with students are arranged for subject-related subjects. In addition, through the WebBanner electronic system, students receive feedback on tasks and examinations of the courses they attend, as well as other lesson-related information such as the course outline.

The Social Support Office can address disabled students with health problems as well as students with social and economic problems and discuss with confidentiality issues that concern them in relation to the difficulties they face during their studies. The Office helps, along with academic departments, to find ways to tackle their difficulties (e.g. concessions and adjustments).

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PSYCHOLOGICAL SUPPORT, EVALUATION, AND PERSONAL DEVELOPMENT

College and graduate school years can be fascinating, creative, but also stressful. Students have several challenges and stresses to deal with, such as academic pressure, decision making, and taking up new roles and responsibilities. It is a period of life important to the discovery of one's identity, developing and maintaining relationships with important others, and, frequently, students may need to deal with losses, handle new academic demands, and deal with their own differentness and how others perceive them.

The University of Cyprus provides counseling and psychological support services for all its students through the Office for Psychological Support. The primary aim of this service is to contribute to the personal development and well-being of students, so as to enable them to maximize their experience during the course of their studies. At the same time, skills, knowledge, and self-efficacy developed through the process of counseling and psychotherapy can empower students to deal with any personal or professional challenges they will come across after completing their studies.

Services are provided in a safe and confidential setting, where students can freely discuss any concerns they may have about handling difficult situations, emotions, and personal matters. Services are offered through short-term individual counseling and psychotherapy sessions. Common concerns for students visiting the center include anxiety and stress, mood and depression, adjusting to academic life, relationships, losses, such as grief or separation, as well as academic difficulties and personal or career decisions.

The Office for Psychological Support also organizes presentations, workshops, and discussions on current issues, launches prevention and sensitization campaigns on topics related to psychological health and well-being, and periodically publishes and disseminates relevant informative material. On its website, one can find self-help articles, self-evaluation and screening tools, informational material, as well as links to other voluntary or professional organizations where students can obtain information on specialized matters of interest to them.

All services offered by the Office for Psychological Support are provided free of charge for all students at the University of Cyprus.

STUDENT LIFE

A number of student groups complete life at campus and enable students to engage in extra-curricular interests and hobbies. The clubs cover a wide range of interests such as music, dance, social services, fine arts, photography, cinema, sports, etc.

In addition, students may apply for prizes and / or scholarships if they meet the appropriate requirements. Typically, the awards are money provided by different companies or individuals.

CAREER

The Career Office acts as a link between the students of the University of Cyprus and the labor market. It also coordinates a Summer Placement Program, advises and informs students about scholarships for postgraduate studies and opportunities for work within and outside the University, and organizes workshops for skills development and various other events related to the professional career of students.

HEALTH AND SAFETY

The Health and Safety Division manages all issues concerning safety and health of the University Community.

Cypriot students are provided with free health care if they are included in their parents' Nursing Card. Also, students from European Union countries will have to present the European Health Insurance Card (EHIC) to the State Hospitals to cover medical care necessary during their temporary stay in Cyprus. Otherwise, they should have private insurance.

Students coming from third countries are not entitled to free healthcare at State Hospitals and, therefore, have to make private insurance. If they visit hospitals, they can claim compensation from the insurance company they are insured with.

HOUSING

Student Halls consists of 12 buildings with a total capacity of 208 single rooms and 2 communal buildings housing the Housing Service Center, the Event Center, the Post Office, and the Laundry Room.

The Housing Office is also responsible for housing Erasmus students and other foreign students. Eight rooms are allocated to these students, giving priority to those students who are expected to attend the entire academic year. To help students, especially newcomers, the Housing Office prepares a list of homes / apartments available for rent (by individuals-private sector).

SPORTS CENTER

The University of Cyprus has a state-of-the-art Sports Center that aims to develop sport throughout the University Community, to offer selected sports courses to all students, to participate in the Championships of the Federation of University Sports in Cyprus, as well as to the European Championships Federation of University Sports.

For more information, please see Annex 4.

13. Address or addresses of the program's premises

Medical School of University of Cyprus (Shakolas Educational Center for Clinical Medicine), Old road: Nicosia - Limassol No.215/6, 2029, Strovolos, Nicosia, Cyprus.

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14. Number and Description of classrooms, laboratories, library, equipment and of any relevant infrastructure in general (See *Specific Instructions*)

Running the MSc course in "Methods in Medical Research" requires infrastructures that include teaching rooms, labs, and specialized software. These needs will be met by using the infrastructure of the Medical School and, if needed, by using, upon agreement, the entire infrastructure of the University of Cyprus.

The Medical School is located at the Shakolas Educational Centre for Clinical Medicine (SECCM), which has a total area of 6988.56 m². The SECCM has offices for faculty members, administrative staff, and other research and teaching staff, teaching rooms, laboratories (Clinical Skills, Anatomy, Pharmacology and Biochemistry, Physiology, Medical Statistics, Epidemiology and Public Health-Informatics), conference rooms, a large lecture hall ("Elpida Shakola"), and a large auditorium ("Nikos Shakolas"). In particular, the lab of Medical Statistics, Epidemiology and Public Health is equipped with 30 high-tech computers in which statistical software (Stata and R) is installed. The SECCM also has server halls and rooms for blood sampling, cell cultures, sterilization, and for specialized and common instruments.

There is also a library, multimedia/computers room, and photocopy/stationery rooms. There also are spacious public areas (reception, kitchen, indoor and outdoor areas for recreation activities, cafe), and storerooms.

The SECCM is protected by security services on a 24-hour basis. At the entrance of the building, there is a reception desk where the security officer can be found.

The facilities of the University of Cyprus include 87 different buildings of a total area of 131,568 m², which are in the following locations:

1. Aglantzia campus
2. Academy Campus
3. Other Buildings
5. Teaching and Research Infrastructures
6. Library of the University of Cyprus

Detailed description of the infrastructures is provided in Annex 4.

15. Tuition fees and Management of the Program's Financial Resources

Running postgraduate programs is one of the missions of the University of Cyprus as defined by the University of Cyprus Law N144 / 89. Given that the University of Cyprus is a public legal entity, a large portion of the operating expenses that primarily regards the salaries of faculty members and of other teaching and administrative personnel, electricity bills, rents, etc. are subsidized by the state. The MSc course in Methods in Medical Research is expected to get in total for each class € 76,875 in fees (€ 5,125 per student x 15 students).

The financial management of graduate programs is done centrally under the supervision of the University of Cyprus Council. Planning and execution of payments are governed by a legal framework and are subject to financial control by the Audit Office of the Republic of Cyprus. The budget is submitted, through the Ministry of Finance and the Ministry of Education and Culture, to the House of Representatives, whose approval is required for budget expenses.

In detail, the procedure is as follows: The budget of a Department for a given year is prepared in the previous year and depends on its future needs, its stage of development, and its strategic planning. When the budget is finalized, it is approved by the Board of the Department and then is submitted to the Board of the relevant School for evaluation and approval. The Dean of the School forwards the approved budget to the Committee of Finance, which consists of the Deans of UCY Schools and is chaired by the Vice-Rector for Economic Affairs. The Finance Committee studies the budgets of the Departments and Entities, and is entitled to revise them, with the agreement of the Department Chairs, in order to make the best allocation and use of available resources.

If some of the Department's needs are considered developmental, the Department should have obtained in advance the necessary approvals by the Programming and Development Committee, which is chaired by the Rector, and subsequently by the Senate and the Council of the University of Cyprus.

Once the budget is approved by the Finance Committee, it is submitted to the Council for final approval. The implementation and monitoring of the budget is done by the Financial Services of the University of Cyprus.

The tuition fees for the proposed MSc course in “Methods in Medical Research” are in total 5,125€ per student and will cover:

1. Teaching notes and materials
2. Reimbursement of teaching staff who are not employees of the UCY
3. Seminars and other training activities for the students
4. Administrative support
5. Scholarships.

The payment schedule for the tuition fees will be as follows:

Schedule		Amount (€)
Payment in advance	At enrollment	325.00
A' Semester	Prior to semester registration	800.00
A' Semester	Prior to exam period	800.00
B' Semester	Prior to semester registration	800.00
B' Semester	Prior to exam period	800.00
C' Semester	Prior to semester registration	800.00
C' Semester	Before final submission of the master thesis	800.00
Total		5,125.00

16. Name and contact information of the Program's Coordinator (See *Specific Instructions*):

Georgios Nikolopoulos
Medical School
University of Cyprus
Old road: Nicosia - Limassol No.215/6
2029 Strovolos
Nicosia, Cyprus
Tel.: +357 22895223
Email: nikolopoulos.georgios@ucy.ac.cy

Dr Georgios Nikolopoulos is Associate Professor of Epidemiology and Public Health at the Medical School of the University of Cyprus. He has long-term and multifaceted research experience in the fields of medicine and health. He has taught multiple modules in Greek and English at both undergraduate and graduate level.

His qualifications and experience are presented in detail in his CV, which is attached at the end of this application.

Dr Georgios Nikolopoulos will not be coordinating any other program.



C. APPLICATION INFORMATION

Payment of Fees According to the Law: **7,000**

Receipt Number: **Γ591774**

Date on the Receipt: **09.09.2019**

Chief Person in Charge of the Institution According to the Law:

.....

Signature of the Chief Person in Charge of the Institution According to the Law:

.....

Institution's Representative (in the case of a company):

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Institution Representative's signature (in the case of a company):

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Date of Application:

D. SPECIFIC INSTRUCTIONS FOR COMPLETING THE DOCUMENT

A.3 Name of the program of study:

[Instructions: Provide the full name of the program for which the present application for educational evaluation – accreditation is submitted, i.e. “Business Administration (4 years / 240 ECTS, Bachelor Degree)”].

A.4 Final Higher Education Qualification:

[Instructions: Provide the full name of the final and/or of the intermediate higher education qualification awarded to those who complete the program of study successfully and attach, herewith, duly completed samples].

A.5 Type of the Program of Study:

[Instructions: Note if the program under evaluation is Conventional or Distance Learning].

[Instructions: Note in a binding manner if the institution considers the program of study under evaluation academic or vocational].

A.6 Duration of Studies:

[Instructions: Note the normal duration of studies, in academic years].

[Instructions: If the program of study, under evaluation, uses the European Credit Transfer System, provide the number of credits necessary for the successful completion of the program. In any other case note the phrase “specified courses”].

[Instructions: Provide the number of semesters and the credits that correspond to them].

B.4 Detailed curriculum, including the structure of the program, courses per semester, and the content of each course analytically (in Greek and in English depending on the program's language of instruction:

- (a) Structure of the program of study (Table 1)
- (b) Distribution of courses per semester (Table 2)
- (c) Complete list of compulsory courses and elective courses (Annex 1)
- (d) Course description (Annex 2)

B.5 Student admission requirements

[Instructions: Note the admission requirements for the program of study and the procedures applied for the recognition of previous studies (transfers).]

B.6 Academic / Teaching Personnel and their qualifications - their biographical notes should be attached

[Instructions: Provide a short description (10 lines) and a biographical note (Annex 3), for every member of the academic / teaching personnel.]

B.7 Program's courses and the teaching personnel teaching each course, for every year of studies

[Instructions: Provide the teaching personnel teaching each course and their corresponding teaching periods per week (Table 3). If the members of the teaching personnel teach, additionally, in other programs, provide their total number of teaching periods, per week, for every program of study (Table 4).]

[Instructions: Designate the Coordinator.]

B.8 Administrative structure of the institution's programs of study, including the program in the proper position (ie by indicating the School and Department under which the program operates, by noting whether the program is inter-university, inter-departmental etc)

[Instructions: Provide, additionally, the name of the School's Dean and the name of the Chairperson of the Department.]

B.9 Regulations and procedures for quality assurance for the program of study

[Instructions: Provide information regarding the procedures for the approval, operation, review, and internal evaluation for the program of study.]

B.14 Number and Description of classrooms, laboratories, library, equipment and of any relevant infrastructure in general.

[Instructions: Provide detailed information regarding the infrastructure which supports the program of study (Annex 4).]

B.16 Name and contact information of the Program's Coordinator

[Instructions: Provide evidence regarding the Coordinator's experience and qualifications and state if he/she is a Coordinator for any other programs of study.]

E. TABLE 1: STRUCTURE OF THE PROGRAM OF STUDY

PROGRAM REQUIREMENTS	ECTS
Compulsory courses	6 60
Elective courses	10
(α) Courses of specialization	Not applicable
(β) General Education courses / Free Electives	
Undergraduate / Postgraduate Assignment	30 20
Practical training	Not applicable
Total ECTS	90

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PROGRAM REQUIREMENTS PER SEMESTER				
Semester	Compulsory courses	Elective courses	Master thesis	ECTS
A'	4 5	-		30
B'	4 3	-		30
C'	-	2 of 5 ECTS each or 1 of 10 ECTS-	1	30
Total ECTS				90



TABLE 2: COURSE DISTRIBUTION PER SEMESTER (continued in next 2 pages)

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
A' Semester								
<u>1.</u>	Compulsory	Introduction to Medical Research	MEDMS720	<u>1</u> (3 hours)	<u>3 hours</u>	<u>5</u>	<u>5</u> (15 hours)	<u>4</u>
<u>24.</u>	Compulsory	Introduction to Medical Statistics	MAS860	2-1 alternating (6-3 hours alternating)	3 hours	5	8 (24 hours)	<u>65</u>
<u>32.</u>	Compulsory	_____ Statistical Computing _____ in Medical Medical Research	MEDMS713	1-2 alternating (3-6 hours alternating)	3 hours	8	12 of which <u>8</u> at the lab <u>_____</u> (36 hours)	<u>87</u>
<u>43.</u>	Compulsory	Introduction to Epidemiology	MEDMS714	2-1 alternating (6-3 hours alternating)	3 hours	8	12 of which <u>4</u> at the lab <u>_____</u> (36 hours)	<u>108</u>
<u>54.</u>	Compulsory	Clinical Trials	MEDMS712	1-2 alternating (3-6 hours alternating)	3 hours	5	7 (21 hours)	6

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	Course Type	Course Name	Course Code	Periods per week	Period duration	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
B' Semester								
56.	Compulsory	Ethics in Medical research	MEDMS715	1 (3 hours)	3 hours	6 13	6-13 (48-39 hours)	5 10
67.	Compulsory	Advanced Methods of Data Analysis in Medical Research	MEDMS716	1 (3 hours)	3 hours	13	13 of which 6 at the lab (39 hours) (39hours)	40 10
7.	Compulsory	Systematic Review and Meta-analysis	MEDMS717	1 (3 hours)	3 hours	7	7 of which 2 at the lab (24 hours)	7
8.	Compulsory	Measurement in Clinical Settings	MEDMS718	1 (3 hours)	3 hours	13	13 of which 4 at the lab (39 hours) 13 of which 4 at the lab (39 hours)	8 10

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<u>A/A</u>	<u>Course Type</u>	<u>Course Name</u>	<u>Course Code</u>	<u>Periods per week</u>	<u>Period duration</u>	<u>Number of weeks/ Academic semester</u>	<u>Total periods/ Academic semester</u>	<u>Number of ECTS</u>
<u>C' Semester</u>								
<u>9.</u>	<u>Elective</u>	<u>Systematic Review and Meta-analysis</u>	<u>MEDMS717</u>	<u>1</u> <u>(3 hours)</u>	<u>3 hours</u>	<u>7</u>	<u>7 of which</u> <u>2 at the lab</u> <u>(21 hours)</u>	<u>5</u>
<u>10.</u>	<u>Elective</u>	<u>Introduction to Qualitative Research</u>	<u>MEDMS721</u>	<u>1</u> <u>(3 hours)</u>	<u>3 hours</u>	<u>6</u>	<u>6 of which</u> <u>2 at the lab</u> <u>(18 hours)</u>	<u>5</u>
<u>11.</u>	<u>Elective</u>	<u>Special Topics in Bioinformatics</u>	<u>BIO650</u>	<u>1</u> <u>(3 hours)</u>	<u>3 hours</u>	<u>13</u>	<u>13</u> <u>(39 hours)</u>	<u>10</u>
<u>12.</u>	<u>Compulsory</u>	<u>Master Thesis</u>	<u>MEDMS719</u>			<u>13</u>		<u>20</u>

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TABLE 3: TEACHING PERSONNEL, COURSES, AND TEACHING PERIODS IN THE PROGRAM OF STUDY
(continued in the next page)

A/A	Name and Surname	Discipline / Specialization	Teaching courses in the program of study under evaluation (Master of Science in Medical Research Methods)		
			Code	Course title	Periods/ week
1.	Panayiotis Yiallourous	Pediatrics - Pediatric respiratory medicine	MEDMS718	Measurement in Clinical Settings	1 (3 hours) every week for 6 weeks
			MEDMS715	Ethics in Medical research	4-1 (3 hours) every week for 4-3 weeks
			<u>MEDMS720</u>	<u>Introduction to Medical Research</u>	<u>1 (3 hours) every week for 1 week</u>
2.	Anneza Yiallourou	General Surgery - Breast cancer	MEDMS714	Introduction to Epidemiology	2 (6 hours) for 1 week
			<u>MEDMS720</u>	<u>Introduction to Medical Research</u>	<u>1 (3 hours) every week for 1 week</u>
3.	Nikolas Dietis	Pharmacology	MEDMS715	Ethics in Medical research	4-1 (3 hours) every week for 2-3 weeks
			<u>MEDMS720</u>	<u>Introduction to Medical Research</u>	<u>1 (3 hours) every week for 1 week</u>



4.	Zacharias Zachariou	Pediatric Surgery	MEDMS715	Ethics in Medical research	1 (3 hours) every week for 3 7 weeks
5.	Anastasia Constantinidou	Oncology - Hematology	MEDMS712	Clinical Trials	1 (3 hours) every week for 5 weeks
<u>6.</u>	<u>Nicos Middleton</u>	<u>Epidemiology</u>	<u>MEDMS714</u>	<u>Introduction to Epidemiology</u>	<u>2-1 alternating (6-3 hours) every week for 4 weeks and 1 (3 hours) every other week for 4 weeks</u>
<u>7.</u>	<u>Anastassia Baxevani</u>	<u>Mathematical Statistics</u>	<u>MAS860</u>	<u>Introduction to Medical Statistics</u>	<u>2-1 alternating (6-3 hours) for 5 weeks</u>
<u>8.</u>	<u>Georgios Nikolopoulos</u>	<u>Biostatistics - Epidemiology - Public Health</u>	<u>MEDMS716</u>	<u>Advanced Methods of Data Analysis in Medical Research</u>	<u>1 (3 hours) every week for 8 weeks</u>
			<u>MEDMS713</u>	<u>Statistical Computing in Medical Research</u>	<u>1 (3 hours) every week for 1 week</u>
			<u>MEDMS717</u>	<u>Systematic Review and Meta-analysis</u>	<u>1 (3 hours) every week for 2 weeks</u>
			<u>MEDMS714</u>	<u>Introduction to Epidemiology</u>	<u>1 (3 hours) every week for 1 week</u>
			<u>MEDMS720</u>	<u>Introduction to Medical Research</u>	<u>1 (3 hours) every week for 2 weeks</u>

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6.	Nicos Middleton	Epidemiology	MEDMS714	Introduction to Epidemiology	2-1 alternating (6-3 hours) every week for 4 weeks and 1 (3 hours) every other week for 4 weeks
7.	Anastassia Baxevani	Mathematical Statistics	MAS860	Introduction to Medical Statistics	2-1 alternating (6-3 hours) for 5 weeks
9.	Aikaterini Pantavou	Biometeorology - Environmental Epidemiology - Biostatistics	MEDMS713	Statistical Computing in Medical Research	1-2 alternating (3-6 hours) for 6 weeks
			MEDMS717	Systematic Review and Meta-analysis	1 (3 hours) every week for 2 weeks
10.	Constantinos Pattichis	Medical Informatics	MEDMS716	Advanced Methods of Data Analysis in Medical Research	1 (3 hours) for 1 week
11.	Artemis Artemiadis	Neurology	MEDMS717	Systematic Review and Meta-analysis	1 (3 hours) every week for 3 weeks
			MEDMS716	Advanced Methods of Data Analysis in Medical Research	1 (3 hours) for 2 weeks
12.	Nicos Mitsides	Nephrology	MEDMS712	Clinical Trials	1 (3 hours) every other week for 5 weeks
13.	Maria Koliou	Pediatrics/Infectious Diseases	MEDMS714	Introduction to Epidemiology	1 (3 hours) every week for 1 week
14.	Panayiotis Kouis	Epidemiology/Public Health/Biology	MEDMS716	Advanced Methods of Data Analysis in Medical Research	1 (3 hours) every week for 2 weeks
			MEDMS718	Measurement in Clinical Settings	1 (3 hours) every week for 7 weeks

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			MEDMS713	Statistical Computing in Medical Research	2 (6 hours) every week for 1 week
<u>15.</u>	<u>Vasilis Promponas</u>	<u>Bioinformatics</u>	<u>BIO650</u>	<u>Special Topics in Bioinformatics</u>	<u>1 (3 hours)</u> <u>every week for</u> <u>13 weeks</u>

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TABLE 4: TEACHING PERSONNEL, QUALIFICATIONS, AND TOTAL TEACHING PERIODS (continued in the next page)

A/A	Name and Surname	Qualifications	Rank*	FT/PT**	Program of Study	Periods / week (hours)	Total periods / week (hours)
1.	Panayiotis Yiallourous	PhD in Medicine Medical Degree (Doctor of Medicine)	P	FT	Undergraduate, Medical School, University of Cyprus		4.5 hours
2.	Anneza Yiallourou	PhD in Medicine Medical Degree (Doctor of Medicine)	Assis. P	FT	Undergraduate, Medical School, University of Cyprus		7.5 hours
3.	Nikolas Dietis	PhD in Pharmacology MRes in Applied Biosciences (Neuropharmacology) BSc in Neuroscience and Pharmacology	Assis. P	FT	Undergraduate, Medical School, University of Cyprus		8.0 hours
4.	Zacharias Zachariou	PhD in Medicine Medical Degree (Doctor of Medicine)	P	FT	Undergraduate, Medical School, University of Cyprus		4.5 hours
5.	Anastasia Constantinidou	PhD in Medicine Medical Degree (Doctor of Medicine)	Assis. P	FT	Undergraduate, Medical School, University of Cyprus		4.5 hours
6.	Nicos Middleton	PhD in Epidemiology MSc in Health Care Decision Analysis BSc in Statistics and Operational Research	Assoc. P	FT	-	-	-



	Name and Surname	Qualifications	Rank*	FT/PT**	Program of Study	Periods / week (hours)	Total periods / week (hours)
7.	Anastassia Baxevani	PhD in Mathematical Statistics MSc in Mathematics MSc in Applied Statistics BSc in Mathematics	Assoc. P	FT	Undergraduate, Department of Mathematics and Statistics, University of Cyprus		6.0 hours
8.	Georgios Nikolopoulos	PhD in Epidemiology MSc in Biostatistics Degree in Dentistry (Doctor of Dental Surgery)	Assoc. P	FT	Undergraduate, Medical School, University of Cyprus		6.0 hours
9.	Aikaterini Pantavou	PhD in Biometeorology/Environmental Epidemiology MSc in Environmental Physics BSc in Physics		PT	-	-	-
10.	Constantinos Pattichis	PhD in Electronic Engineering MSc in Biomedical Engineering MSc in Neurology BSc in Electrical Engineering	P	FT	Undergraduate, Computer Sciences, University of Cyprus		6.0 hours
11.	Artemis Artemiadis	PhD in Medicine (Neurology) MSc in Stress / Health Promotion Medical Degree (Doctor of Medicine)	Vis. Ass. P	FT	Undergraduate, Medical School, University of Cyprus		6.0 hours

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12.	Nicos Mitsides	PhD in Medicine (Nephrology) Medical Degree (Doctor of Medicine)	Vis. L	FT	Undergraduate, Medical School, University of Cyprus		6.0 hours
13.	Maria Koliou	PhD in Medicine (Immunology/Infections) MSc in Clinical Microbiology / Public Health Medical Degree (Doctor of Medicine)	Ass. P	FT	Undergraduate, Medical School, University of Cyprus		6.0 hours
14.	Panayiotis Kouis	PhD in Environmental Health MSc in Environmental Health / Molecular Medicine BSc in Biology	Vis. L	FT	Undergraduate, Medical School, University of Cyprus		6.0 hours
15.	Vasilis Promponas	<u>PhD in Biological Sciences</u> <u>BSc in Physics</u>	<u>Assoc. P</u>	<u>FT</u>	<u>Undergraduate/Postgraduate, Department of Biological Sciences, University of Cyprus</u>		<u>6.0 hours</u>

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AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION



* Rank: Professor (P), Associate Professor (Assoc. P), Assistant Professor (Assis. P), Lecturer (L), Special Teaching Personnel (STP), Visiting Professor (Vis. P), Visiting Assistant Professor (Vis. Ass. P), Visiting Lectures (Vis. L), Special Scientist(SS), Lab Assistant (LA)

** Full Time (FT), Part Time (PT)

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ANNEXES

ANNEX 1 – LIST OF COMPULSORY COURSES AND ELECTIVE COURSES

Compulsory Courses			
Course Code	Course Title	Semester	ECTS
<u>MEDMS720</u>	<u>Introduction to Medical Research</u>	<u>A'</u>	<u>4</u>
MAS860	Introduction to Medical Statistics	A'	<u>65</u>
MEDMS713	Statistical Computing in Medical Research	A'	<u>87</u>
MEDMS714	Introduction to Epidemiology	A'	<u>108</u>
MEDMS712	Clinical Trials	A'	6
MEDMS715	Ethics in Medical <u>R</u> esearch	B'	<u>510</u>
MEDMS716	Advanced Methods of Data Analysis in Medical Research	B'	<u>1010</u>
<u>MEDMS717</u>	<u>Systematic Review and Meta-analysis</u>	<u>B'</u>	<u>7</u>
MEDMS718	Measurement in Clinical Settings	B'	<u>810</u>
MEDMS719	Master Thesis	C'	<u>3020</u>
Elective Courses			
<u>Course Code</u>	<u>Course Title</u>	<u>Semester</u>	<u>ECTS</u>
<u>MEDMS717</u>	<u>Systematic Review and Meta-analysis</u>	<u>C'</u>	<u>5</u>
<u>MEDMS721</u>	<u>Introduction to Qualitative Research</u>	<u>C'</u>	<u>5</u>
<u>Not-ApplicableBIO650</u>	<u>Not-ApplicableSpecial Topics in Bioinformatics</u>	<u>C'Not-Applicable</u>	<u>10Not-Applicable</u>

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ANNEX 2 – COURSE DESCRIPTION

Course Title	<u>Introduction to Medical Research</u>			
Course Code	<u>MEDMS720</u>			
Course Type	<u>Compulsory</u>			
Level	<u>Postgraduate</u>			
Year / Semester	<u>A'</u>			
Teacher's Name	<u>Georgios Nikolopoulos, Nikolas Dietis, Anneza Yiallourou, Panayiotis Yiallourous</u>			
ECTS	<u>4</u>	<u>Lectures /week</u> <u>The module will run the first 5 weeks (1-5) of semester A</u>	<u>1 lecture (3 hours each) per week for 5 weeks</u>	<u>Laboratories / week</u> <u>-</u>
Course Purpose and Objectives	To introduce students to medical and health-related research equipping them with a foundational understanding of the key concepts and skills necessary for engaging in research.			
Learning Outcomes	<p><u>Knowledge and understanding - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>explain the role of research in evidence-based medical and public health practice.</u> <u>report the basics of study design and implementation, including the development of research questions and hypotheses, the selection of appropriate study designs (experimental, observational, surveys, etc.) based on research objectives, data collections methods (interviews, clinical examinations, questionnaires, etc.), data analysis, and scientific writing.</u> <u>report the basics of research funding, grant applications, and the process of securing funding for medical research projects.</u> <u>give a comprehensive account of ways to disseminate results of research projects in medical and health-related contexts.</u> <u>describe the structure of a conference abstract and a research paper.</u> <u>report guidelines and statements for conducting and reporting results of medical and health-related studies (e.g., STROBE, PRISMA, GATHER, etc.).</u> <p><u>Skills - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>prepare an oral presentation for a scientific conference following academic conventions.</u> <u>prepare a manuscript for submission according to instructions for authors set by scientific journals (structure and format of research articles and literature reviews, as well as proper use of citations).</u> <u>craft a basic research proposal.</u> <u>use efficiently online platforms for submission of conference abstracts or</u> 			

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	<p><u>full-text research papers.</u></p> <ul style="list-style-type: none"> <u>use efficiently reference management software.</u> <p><u>Attitudes - The students should:</u></p> <ul style="list-style-type: none"> <u>cultivate a curious and inquisitive attitude towards scientific inquiry, fostering a desire to explore and understand the complexities of medical and health-related research.</u> <u>endorse an open-minded approach to different research methodologies and perspectives, recognizing that diverse methods contribute to a richer understanding of medical phenomena.</u> <u>recognize the value of teamwork and effective communication in the research process and appreciate the contributions of colleagues and collaborators.</u> <u>cultivate an adaptable mindset, recognizing that research plans may evolve, and being open to adjusting strategies in response to new information or challenges.</u> <u>develop patience and perseverance in the face of challenges, understanding that research is a process that may involve setbacks, and maintaining a positive and resilient attitude.</u> <u>develop a strong awareness of ethical considerations in medical and health-related research.</u> <u>commit to follow guidelines for publishing research in medical and health-related research.</u> 		
<u>Prerequisites</u>	:	<u>Required</u>	:
<u>Course Content</u>	<p><u>Philosophy of medical research, research hypothesis and questions, research design and ethics, presentation at conferences, publications in peer-reviewed journals, publication ethics, funding opportunities for research.</u></p>		
<u>Teaching Methodology</u>	<p><u>The primary teaching method will be lectures. Self-directed learning and group learning will be strongly encouraged by using homework assignments with written and/or oral presentation and journal clubs/seminars. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge.</u></p>		
<u>Bibliography</u>	<p>1. <u>Forister JG, Blessing JD. (2020). Introduction to Research and Medical Literature for Health Professionals. 5th edition. Jones and Bartlett Learning.</u></p> <p>2. <u>Lectures material.</u></p>		
<u>Assessment</u>	<p><u>Attendance and participation in lectures</u> [personal mark] 40%</p> <p><u>Homework assignments</u> [personal mark] 60%</p>		
<u>Language</u>	<u>English</u>		

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Course Title	Introduction to Medical Statistics			
Course Code	MAS 860			
Course Type	Compulsory			
Level	Postgraduate			
Year / Semester	A'			
Teacher's Name	Anastassia Baxevasi			
ECTS	6 5	Lectures /week It starts with two lectures the 1 st of the 5 weeks The module will run the first 5 weeks (1-5) of semester A	2-1 lectures (3 hours each) alternating per week for 5 weeks	Laboratories / week -
Course Purpose and Objectives	To familiarize students with principles and concepts of medical statistics. To equip students with an understanding of statistical theory and basic statistical methods and the skills to apply these methods to solve problems in medical and health-related research.			
Learning Outcomes	<p>After completing the course, the students should be able to recognize the various types of medical data, to select and make appropriate summaries, tables and graphical displays of medical data, to apply appropriate simple statistical methods for data analyses, and to correctly interpret and present the results of statistical analyses. Knowledge and understanding - The students should be able to:</p> <ul style="list-style-type: none"> explain probability theory and hypothesis testing. provide a comprehensive account of the fundamental statistical methods for sampling and data analysis in medical and health-related research. differentiate between basic statistical methods for different purposes in data analysis in medical and health-related research. describe how statistics contribute to medical research and healthcare decision-making. <p>Skills - The students should be able to:</p> <ul style="list-style-type: none"> recommend appropriate methods of sampling to address specific research questions in medical and health-related research. recognize various types of medical data. make appropriate summaries of data. apply appropriate basic statistical methods to address specific research questions in medical and health-related research. correctly interpret the results of statistical analyses. <p>Attitudes - The students should:</p> <ul style="list-style-type: none"> take responsibility for their ongoing professional development in the field of medical statistics. identify challenges in collecting and analyzing data in medical research and discuss strategies to address them. 			

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Prerequisites	-	Required	-
Course Content	Principles of the theory of probabilities, distributions (binomial, normal, chi-square, t-distribution), types of variables (categorical and continuous), descriptive measures of tendency and spread (mean, median, variance, standard deviation, range), sampling methods, hypothesis testing, p-value, confidence intervals, chi-squared test including Fisher's exact and McNemar's tests, t-test, analysis of variance, non-parametric tests.		
Teaching Methodology	<u>The primary teaching method will be lectures. Self-directed learning and group learning will be strongly encouraged by using homework assignments with written and/or oral presentation. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge. The module will be primarily delivered through lectures. Self-directed learning will be encouraged by using homework assignments that should be presented in essay format and/or orally.</u>		
<u>Bibliography</u>	<ol style="list-style-type: none"> 1. <u>Bland M. (2015). An introduction to medical statistics. Oxford University Press.</u> 2. <u>Armitage, P., Berry, G., & Matthews, J. N. S. (2008). Statistical methods in medical research. John Wiley & Sons.</u> 3. <u>Altman, D. G. (1990). Practical statistics for medical research. CRC press.</u> 4. <u>Bland, M. (2015). An introduction to medical statistics. Oxford University Press (UK).</u> 5. <u>Daniel, W. W., & Cross, C. L. (1995). Biostatistics: a foundation for analysis in the health sciences.</u> 6. <u>Matthews, D. E., & Farewell, V. T. (1996). Using and understanding medical statistics. Basel, Switzerland: Karger.</u> 7. <u>Kirkwood, B. R., & Sterne, J. A. (2010). Essential medical statistics. John Wiley & Sons.</u> 8. <u>Peat, J., & Barton, B. (2008). Medical statistics: A guide to data analysis and critical appraisal. John Wiley & Sons.</u> 9. <u>Lectures material.</u> 		
<u>Assessment</u>	Attendance and participation in lectures [personal mark] 10% Homework assignments [personal mark] 30% Written exams (weeks 14 - 15 of Semester A) [personal mark] 60%		
<u>Language</u>	English		

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Bibliography	<p>Armitage, P., Berry, C., & Matthews, J. N. S. (2008). <i>Statistical methods in medical research</i>. John Wiley & Sons.</p> <p>Altman, D. G. (1990). <i>Practical statistics for medical research</i>. CRC press.</p> <p>Bland, M. (2015). <i>An introduction to medical statistics</i>. Oxford University Press (UK).</p> <p>Daniel, W. W., & Cross, C. L. (1995). <i>Biostatistics: a foundation for analysis in the health sciences</i>.</p> <p>Matthews, D. E., & Farewell, V. T. (1996). <i>Using and understanding medical statistics</i>. Basel, Switzerland; Karger.</p> <p>Kirkwood, B. R., & Sterne, J. A. (2010). <i>Essential medical statistics</i>. John Wiley & Sons.</p> <p>Peat, J., & Barton, B. (2008). <i>Medical statistics: A guide to data analysis and critical appraisal</i>. John Wiley & Sons.</p>
Assessment	<p>Attendance and participation in lectures [personal mark] 10%</p> <p>Homework assignments [personal mark] 20%</p> <p>Written exams (weeks 14 – 15 of Semester A) [personal mark] 60%</p>
Language	English



Course Title	Statistical Computing in Medical Research				
Course Code	MEDMS713				
Course Type	Compulsory				
Level	Postgraduate				
Year / Semester	A'				
Teacher's Name	Aikaterini Pantavou, Panayiotis Kouis, Georgios Nikolopoulos				
ECTS	8 7 / week Lectures start the 1 st of the 8 weeks The module will run weeks 6-13 of semester A	1 lecture (3 hours each) every other week for 8 weeks	Laboratories / week Labs start the 2 nd of the 8 weeks	2 labs (3 hours each) every other week for 8 weeks	
Course Purpose and Objectives	To familiarize students with software used for data analyses in medical <u>and health-related research and to equip them with the necessary skills to apply statistical methods utilizing specialized software.</u>				
Learning Outcomes	<p><u>After completing the course, the students should be able to use Stata and R, to create data files, to generate summary statistics and produce graphical displays of data, and to use simple statistical techniques for data analyses in Stata and R.</u></p> <p><u>Knowledge and understanding - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>explain how software tools, such as Stata and R, operate and can be used within the context of medical and health-related research.</u> <u>provide a comprehensive account of basic Stata and R commands to apply fundamental statistical methods.</u> <p><u>Skills - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>create data files in Stata and R.</u> <u>import data files to Stata and R.</u> <u>clean and preprocess data files in Stata and R before analysis.</u> <u>generate summary statistics using Stata and R.</u> <u>produce graphical displays of data using Stata and R that effectively communicate quantitative information relevant to medical and health-related research.</u> <u>independently apply basic statistical techniques for data analyses using Stata and R.</u> <u>independently produce reports for research projects using Stata and R.</u> <p><u>Attitudes - The students should:</u></p> <ul style="list-style-type: none"> <u>evaluate their requirement for additional knowledge on statistical software, including upgrades of Stata and R or other relevant software.</u> 				
Prerequisites	-	Required	-	-	-

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Course Content	Interface of Stata and R, importing and exporting data, data management, creating or loading and saving data files, use of commands for data analyses, creation and use of files containing sets of typed commands for data analyses, plotting data and drawing graphs, keeping logs, and introduction to statistical programming.
Teaching Methodology	<u>The primary teaching methods will be lectures and technology-enhanced learning (computer-based management and analysis of data). Self-directed learning and group learning will be strongly encouraged by using homework assignments with written and/or oral presentation. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge.</u> The module will be primarily delivered through lectures and lab work on computers. Self directed learning will be encouraged by using homework assignments that should be presented in essay format and/or orally.

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<u>Bibliography</u>	<u>Stata:</u> 1. <u>Daniels J., Minot N. (2020). An Introduction to Statistics and Data Analysis Using Stata. Sage Publications.</u> 2. <u>Bittmann F. (2019). Stata: A Really Short Introduction. De Gruyter.</u> <u>R:</u> 1. <u>Irizarry, RA. (2020). Introduction to Data Science. Data Analysis and Prediction Algorithms with R. CRC Press.</u> 2. <u>Thulin M. (2021). Modern Statistics with R. Eos Chasma Press. ISBN 9789152701515.</u> <u>Lectures material.</u>		
<u>Assessment</u>	Attendance and participation in lectures/lab	[personal mark]	20%
	Homework assignments	[personal mark]	50%
	Written exams (weeks 14 - 15 of Semester A)	[personal mark]	30%
<u>Language</u>	<u>English</u>		

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AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION





Course Title	Introduction to Epidemiology			
Course Code	MEDMS714			
Course Type	Compulsory			
Level	Postgraduate			
Year / Semester	A'			
Teacher's Name	Anneza Yiallourou, Nicos Middleton, Maria Koliou, Georgios Nikolopoulos			
ECTS	408	Lectures / week Lectures start the 1 st of the 8 weeks The module will run weeks 6-13 of semester A	2 lectures (3 hours each) every other week for 8 weeks	Laboratories / week Labs start the 2 nd of the 8 weeks 1 lab (3 hours each) every other week for 8 weeks
Course Purpose and Objectives	To familiarize students with the principles and concepts of epidemiology, which underpin medical <u>and health-related</u> research, and to equip them with the necessary knowledge and skills so as to contribute essentially to the conduct of scientific <u>epidemiological (observational)</u> research.			
Learning Outcomes	<p><u>Knowledge and understanding - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>present a comprehensive overview of the strengths and limitations associated with various epidemiological (observational) designs.</u> <u>explain the pivotal role played by chance, confounding, bias, and interaction within epidemiological (observational) studies.</u> <u>describe the epidemiology of diseases that hold significance within the realm of public health.</u> <p><u>Skills - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>design epidemiological (observational) studies.</u> <u>compute and correctly interpret measures of disease occurrence and effect.</u> <u>critically appraise research articles in the medical and health-related literature (observational studies).</u> <p><u>Attitudes - The students should:</u></p> <ul style="list-style-type: none"> <u>take responsibility for their ongoing professional development in the field of epidemiology.</u> <u>make informed choices about the appropriate epidemiological design in the medical and health-related fields.</u> <u>After completing the course, the students should be able to compute and demonstrate critical thinking and judgment in assessing the quality and validity of epidemiological studies in the medical and health-related sciences.</u> 			
Outcomes	correctly interpret measures of disease occurrence and measures of effect, to design epidemiological studies, to assess strengths and limitations of different epidemiological designs, to understand the role of chance, confounding, bias, and interaction, and to critically appraise and comprehend			

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	research articles in the medical literature.
Prerequisites	- Required -
Course Content	Use of epidemiological methods in medical <u>and health-related</u> research, measures of disease occurrence, measures of effect, criteria for assessing causality, descriptive epidemiology, cross-sectional studies, ecological research, cohort studies, case-control studies, random error, confounding, bias, interaction, registries of chronic non-communicable diseases, epidemiology of cardiovascular disease and cancer, surveillance and control measures of infectious diseases, mathematical modeling of infectious diseases, epidemiology of infectious diseases of global health importance (HIV infection, Tuberculosis and Malaria), management of computerized epidemiological data, and calculation of epidemiological measures using statistical software <u>(R and Stata)</u> .
Teaching Methodology	<u>The primary teaching methods will be lectures and technology-enhanced learning (computer-based analysis of data from observational studies). Self-directed learning and group learning will be strongly encouraged by using homework assignments with written and/or oral presentation and journal clubs/seminars. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge. The module will be primarily delivered through lectures and lab work on computers. Self-directed learning will be encouraged by using homework assignments that should be presented in essay format and/or orally.</u>

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<u>Bibliography</u>	<div><div>1. <u>Aschengrau A, Seage G. (2014). Essentials of epidemiology in public health. Jones and Bartlett Learning.</u></div><div>2. <u>Rothman K. (2012). Epidemiology. An Introduction. Oxford University Press.</u></div><div>3. <u>Rothman K, Greenland S, Lash T. (2008). Modern Epidemiology. WoltersKluwer – Lippincott Williams and Wilkins.</u></div><div>4. <u>Lectures material.</u></div></div>									
<u>Assessment</u>	<table><tr><td><u>Attendance and participation in lectures/lab</u></td><td><u>[personal mark]</u></td><td><u>20%</u></td></tr><tr><td><u>Homework assignments</u></td><td><u>[personal mark]</u></td><td><u>50%</u></td></tr><tr><td><u>Written exams (weeks 14 - 15 of Semester A)</u></td><td><u>[personal mark]</u></td><td><u>30%</u></td></tr></table>	<u>Attendance and participation in lectures/lab</u>	<u>[personal mark]</u>	<u>20%</u>	<u>Homework assignments</u>	<u>[personal mark]</u>	<u>50%</u>	<u>Written exams (weeks 14 - 15 of Semester A)</u>	<u>[personal mark]</u>	<u>30%</u>
<u>Attendance and participation in lectures/lab</u>	<u>[personal mark]</u>	<u>20%</u>								
<u>Homework assignments</u>	<u>[personal mark]</u>	<u>50%</u>								
<u>Written exams (weeks 14 - 15 of Semester A)</u>	<u>[personal mark]</u>	<u>30%</u>								
<u>Language</u>	<u>English</u>									

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Bibliography	<p>Alderson, M. (Ed.). (1983). <i>An introduction to epidemiology</i>. Springer.</p> <p>Aschengrau, A., Seage, G. (2014). <i>Essentials of epidemiology in public health</i>. Jones and Bartlett Learning.</p> <p>Bailey, L., Vardulaki, K., Langham, J., & Chandramohan, D. (2005). <i>Introduction to epidemiology</i> (pp. 97-112). London: Open University Press.</p> <p>Carneiro, I., & Howard, N. (2011). <i>Introduction to epidemiology</i>. McGraw-Hill Education (UK).</p> <p>Ceggon, D., Rose, G. & Barker, D.J.P. (1993). <i>Epidemiology for the Uninitiated</i>. (3rd Edition). London: BMJ.</p> <p>Friedman, G.D. (1994). <i>Primer of Epidemiology</i>. 4th Edition. NY: McGraw-Hill, Inc.</p> <p>Gigerenzer, G. (2002). <i>Calculated Risks. How To Know When Numbers Deceive You</i>. NY: Simon & Shuster MacMillan Co.</p> <p>Gordis, L. (1996). <i>Epidemiology</i>. PA: WB Saunders.</p> <p>Lilienfield, D.E., & Stolley, P.D. (1994). <i>Foundations of Epidemiology</i>. NY: Oxford University Press.</p> <p>Mausner, J. S., & Bahn, A. K. (1974). <i>Epidemiology. An introductory text</i>.</p> <p>Merrill, R. M. (2015). <i>Introduction to epidemiology</i>. Jones & Bartlett Publishers.</p> <p>Morton, R.F., Hebel, J.R., & McCarter, R.J. (1990). <i>A Study Guide to Epidemiology and Biostatistics</i>. Rockville, MD: Aspen Publications.</p> <p>Olecko, W.A. (2002). <i>Essential Epidemiology</i>. IL: Waveland Press.</p> <p>Olsen, J., Christensen, K., Murray, J., & Ekbo, A. (2010). <i>An introduction to epidemiology for health professionals</i>. Springer.</p> <p>Page, R.M., Cole, G.E. & Timmreck, T.E. (1995). <i>Basic Epidemiological Methods and Biostatistics: A Practical Guide Book</i>. Boston, MA: Jones and Bartlett Publishers.</p> <p>Pearce, N. (2005). <i>A short introduction to epidemiology</i>. Centre for Public Health Research, Massey University.</p> <p>Rothman, K., Greenland, S., Lash, T. (2008). <i>Modern Epidemiology</i>. Wolters Kluwer—Lippincott Williams and Wilkins.</p> <p>Selvin, S. (1991). <i>Statistical Analysis of Epidemiologic Data</i>. NY: Oxford University Press.</p> <p>Timmreck, T. C. (2002). <i>An introduction to epidemiology</i>. Jones & Bartlett Learning.</p>
Assessment	<p>Attendance and participation in lectures/lab ——— [personal mark] 10%</p> <p>Homework assignments ——— [personal mark] 30%</p> <p>Written exams (weeks 14 – 15 of Semester A) [personal mark] 60%</p>
Language	English

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Course Title	Clinical Trials				
Course Code	MEDMS712				
Course Type	Compulsory				
Level	Postgraduate				
Year / Semester	A'				
Teacher's Name	Nicos Mitsides, Anastasia Constantinidou				
ECTS	6	Lectures / week It starts with one lecture, the 1 st of the 5 weeks The module will run the first 5 weeks (1-5) of semester A	1-2 lectures (3 hours each) alternating per week for 5 weeks	Laboratories / week	-
Course Purpose and Objectives	To familiarize students with the principles and concepts of clinical trials, as a primary tool in evidence-based medicine <u>and public health</u> , and to equip them with the necessary knowledge, <u>and skills, and attitudes so as to work in this field in this field</u> and make valuable contributions to <u>the conduct of clinical trials</u> .				
Learning Outcomes	<p>After completing the course, the students should be able to understand the methodological issues around the design, conduct, management, analysis, reporting, and interpretation of clinical trials of health-related interventions (phases I, II, III, IV), to draft protocols, to write reports, and to critically appraise and comprehend research articles describing the conduct and findings of clinical trials. Knowledge and understanding - The students should be able to:</p> <ul style="list-style-type: none"> <u>explain the pivotal role clinical trial play in evidence-based medicine and public health.</u> <u>present a comprehensive overview of the methodology and administration of clinical trials encompassing phases I-IV for developing medicines, assessing their efficacy and safety, and obtaining approval for their commercial use from regulatory authorities.</u> <p>Skills - The students should be able to:</p> <ul style="list-style-type: none"> <u>design clinical trials.</u> <u>draft protocols for clinical trials.</u> <u>interpret the results of clinical trials.</u> <u>write reports articulately, summarizing the findings of clinical trials.</u> <u>critically appraise research articles describing the conduct and findings of clinical trials.</u> <p>Attitudes - The students should:</p> <ul style="list-style-type: none"> <u>take responsibility for continuous professional development in the field of clinical trials.</u> <u>make informed choices about the appropriate research design in the medical and health-related fields.</u> <u>identify and address ethical and other challenges associated with the funding and execution of clinical trials.</u> 				

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Prerequisites	-	Required	-
Course Content	Fundamentals and use of clinical trials in medical research, phases of clinical trials, before a trial starts, timeline, budget, developing, writing, and registering a protocol, approval and monitoring by ethics committees, <u>sample size</u> eing of-in clinical trials, randomization, use of placebos, practical aspects and organizational considerations of clinical trials in hospital and nonhospital settings, blinding, data processing and management, interim analyses, intention-to-treat analysis of data, analysis as treated, reporting and dissemination of results, main features of guidelines for reporting, multiplicity of data, multi-armed and alternative designs, quality control and assurance, good clinical practice, and regulatory affairs.		
Teaching Methodology	<u>The primary teaching methods will be lectures. Self-directed learning and group learning will be strongly encouraged by using homework assignments with written and/or oral presentation and journal clubs/seminars. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge. The module will be primarily delivered through lectures. Self-directed learning will be encouraged by using homework assignments that should be presented in essay format and/or orally.</u>		

<u>Bibliography</u>	<ol style="list-style-type: none"> 1. <u>Piantadosi S. (2017). Clinical trials: a methodologic perspective. John Wiley & Sons.</u> 2. <u>Shamley D (Eds), Wright B (Eds). (2017). A Comprehensive and Practical Guide to Clinical Trials. Elsevier.</u> 3. <u>Friedman LM, Furberg CD, DeMets DL, Reboussin DM, Granger CB. (2015). Fundamentals of Clinical Trials. 5th ed. Springer.</u> 4. <u>Lectures material.</u> 		
<u>Assessment</u>	Attendance and participation in lectures	[personal mark]	10%
	Homework assignments	[personal mark]	40%
	Written exams (weeks 14 - 15 of Semester A)	[personal mark]	50%
<u>Language</u>	English		

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Bibliography	<p>Cook, T. D., & DeMets, D. L. (2007). Introduction to statistical methods for clinical trials. CRC Press.</p> <p>Friedman, L. M., Furberg, C., DeMets, D. L., Reboussin, D. M., & Granger, C. B. (1998). Fundamentals of clinical trials (Vol. 3). New York: Springer.</p> <p>Piantadosi, S. (2017). Clinical trials: a methodologic perspective. John Wiley & Sons.</p> <p>Roy-Eagleson et al (2017). Implementation of clinical research trials using web-based and mobile devices: challenges and solutions. BMC Medical Research methodology. 17 March 2017. https://doi.org/10.1186/s12874-017-0324-6</p>
Assessment	<p>Attendance and participation in lectures ————— [personal mark] 10%</p> <p>Homework assignments ————— [personal mark] 30%</p> <p>Written exams (weeks 14 – 15 of Semester A) ————— [personal mark] 60%</p>
Language	English

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Course Title	Ethics in Medical Research				
Course Code	MEDMS715				
Course Type	Compulsory				
Level	Postgraduate				
Year / Semester	B'				
Teacher's Name	Nicolas Dietis, Panayiotis Yiallourous, Zacharias Zachariou				
ECTS	5 <u>10</u>	Lectures / week <u>The module will run over the entire B semester (weeks 1-13 of semester B). Lectures start the 1st of the 13 weeks. The module will run the first 6 weeks (1-6) of semester B.</u>	1 lecture (3 hours each) per week for <u>6-13</u> weeks	Laboratories / week	-
Course Purpose and Objectives	<p>To instill a deep understanding of ethical principles and guidelines in medical and health-related research, ensuring that students will conduct studies with the highest standards of integrity, honesty, and respect for human and animal subjects. To introduce students to a wide array of concepts that define bioethics in research on humans and animals, and to familiarize them with the international declarations, declarations and relative local rules and laws regarding bioethics.</p>				
Learning Outcomes	<p>After completing the course, the students should be able to recognize core philosophy concepts in ethics, to discuss controversial issues relating to medical research, to understand the ethical principles that surround medical research, to demonstrate their knowledge of international/local declarations, rules and laws, and of how bioethics committees work, to apply appropriate codes/regulations/other documents governing the ethical conduct of medical research to their own research, and understand what scientific misconduct is. Knowledge and understanding - The students should be able to:</p> <ul style="list-style-type: none"> • present core philosophy concepts and theories in ethics. • articulate the major ethical principles that surround medical and health-related research. • describe the framework of international and local declarations, laws, regulations, and rules that govern medical and health-related research. • articulate the ethical considerations when involving vulnerable populations in medical and health-related research, such as children, pregnant women, and individuals with diminished autonomy. • describe the elements of informed consent, including its importance, documentation, and variations based on participant populations. • explain the role of institutional review boards / bioethics committees. <p>Skills - The students should be able to:</p> <ul style="list-style-type: none"> • prepare applications to institutional review boards / bioethical committees following codes / regulations / other legal documents governing medical 				

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	<p>and health-related research.</p> <ul style="list-style-type: none"> develop protocols to safeguard participant confidentiality and privacy throughout the research process, including data collection, storage, and dissemination. analyze and evaluate ethical dilemmas in medical and health-related research, applying critical thinking skills to make well-reasoned decisions. critically appraise studies for scientific misconduct. <p>Attitudes - The students should:</p> <ul style="list-style-type: none"> develop an attitude of continuous learning and self-reflection, recognizing the dynamic nature of ethics in medical and health-related research and staying informed about evolving ethical standards. develop a strong commitment to adhering to ethical guidelines and principles, emphasizing the importance of ethical conduct as a fundamental aspect of responsible research practice. foster a commitment to maintaining research integrity, including honesty, accuracy, transparency in reporting findings and handling data, and responsible conduct in all aspects of the research process. cultivate a commitment to prioritizing research participants' welfare and well-being over personal interests, while navigating complex ethical decisions. develop a respectful attitude towards diverse cultural and religious beliefs, acknowledging and valuing the unique perspectives and needs of individuals participating in medical and health-related research. cultivate an attitude of community engagement and respect for the communities involved in medical and health-related research, acknowledging the importance of collaboration and mutual benefit. 		
Prerequisites	-	Required	-
Course Content	<p>Philosophy of ethics, moral principles in medical and health-related research, violation of ethical principles in medical research (e.g. Second World War, Tuskegee syphilis experiment, etc.), Belmont Report, Declaration of Helsinki, Institutional Review Boards (IRBs), informed consent, National Bioethics Committee in Cyprus, data protection, relative legislation in Cyprus, scientific misconduct, and requirements regarding ethical issues by biomedical journals.</p>		
Teaching Methodology	<p>The module will be primarily delivered through the primary teaching method will be lectures. Self-directed learning will be strongly encouraged by using homework assignments with written and/or oral presentation and journal clubs/seminars. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge by using homework assignments that should be presented in essay format and/or orally.</p>		
Bibliography	<p>— Zima T, Weisstub DN, Brody B-A., 1998. The Ethics of Biomedical Research: An International Perspective, Oxford: Oxford University Press.</p> <p>1. (Eds.), (2023). Medical Research Ethics: Challenges in the 21st Century. Springer.</p> <p>2. Emanuel EJ, Grady CC, Crouch RA, Lie RK, Miller FG, Wendler DD. (Eds.). (2011). The Oxford Textbook of Clinical Research Ethics. Oxford University Press.</p> <p>— Coughlin, S-S, Beauchamp T-L, & Weed D-L. (Eds.). (2009). Ethics and epidemiology. Oxford University Press.</p>		

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Assessment	<p>Attendance and participation in lectures [personal mark] 10%</p> <p>Homework assignments [personal mark] 40%</p> <p>Written exams (weeks 14-15 of Semester B) [personal mark] 50%</p>
Language	English

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AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION





Course Title	Advanced Methods of Data Analysis in Medical Research			
Course Code	MEDMS716			
Course Type	Compulsory			
Level	Postgraduate			
Year / Semester	B'			
Teacher's Name	Georgios Nikolopoulos, Constantinos Pattichis, Artemis Artemiadis, Panayiotis Kouis			
ECTS	40 10	Lectures / week The module will run over the entire B semester (weeks 1-13 of semester B) Lectures start the 1 st of the 13 weeks	1 lecture (3 hours each) every other week for 13 weeks	Laboratories / week 1 lab (3 hours each) every other week for 13 weeks
Course Purpose and Objectives	To familiarize students with advanced methods of quantitative and qualitative data analysis in medical research and to equip them with the necessary knowledge and skills to perform and comprehend advanced analyses empower them with solid theoretical understanding and practical analytical skills necessary for extracting meaningful insights from complex data in medical and health-related research.			
Learning Outcomes	<p>After completing the course, the students should be able to understand the concept of likelihood and its role in estimating regression coefficients, to correctly interpret the results of advanced methods of quantitative and qualitative data analysis that are published in medical literature, to recognize the nature of collected data, to apply appropriate advanced methods using statistical packages, to present the results clearly and accurately in a structured report, and to be conversant with terms and concepts of big data and health services research. Knowledge and understanding - The students should be able to:</p> <ul style="list-style-type: none"> explain the role of regression modelling in medical and health-related research. describe the specific elements of health services research. explain terms, concepts, strengths, limitations, and ethical considerations of big data analysis and artificial intelligence in medicine and healthcare. <p>Skills - The students should be able to:</p> <ul style="list-style-type: none"> clean and preprocess complex medical and health-related datasets, ensuring data quality for accurate analyses. apply appropriate advanced methods in medical and health-related research contexts using programming language (e.g., R) and specialized statistical software (e.g., Stata). interpret regression coefficients and communicate the results of 			

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	<p><u>advanced data analyses in the context of medical and health-related research to diverse audiences, through appropriate visualization, reporting, and dissemination methods, considering clinical implications and potential applications.</u></p> <ul style="list-style-type: none"> <u>critically appraise the results of advanced methods of data analysis that are published in the medical and health-related literature.</u> <p><u>Attitudes - The students should:</u></p> <ul style="list-style-type: none"> <u>identify the personal need for further knowledge in the rapidly evolving domain of data analysis and take responsibility for their ongoing learning.</u> <u>communicate the limitations of data analysis methods transparently.</u> <u>develop a positive attitude to the issues of privacy, data security, and responsible use of data.</u> <u>develop a sense of responsibility towards society, understanding the potential impact of data analysis results on public health and healthcare policies.</u> 		
Prerequisites	<input type="checkbox"/> MAS860: Introduction to Medical Statistics <input type="checkbox"/> MEDMS713: Statistical Computing in Medical Research	Required	-

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<u>Course Content</u>	<p><u>Correlation analysis, estimation methods and concept of likelihood, linear regression, logistic regression, multinomial logistic regression, ordinal logistic regression, Poisson regression, survival analysis, fixed-, random-, and mixed-effects models, analysis of longitudinal data or data with time-varying covariates, analysis of dependent and hierarchical data, confounding and interaction in regression models, model selection strategies, running advanced methods of data analysis in Stata and R, health services research, description of big data, the v's of big data (high-volume, high-velocity, high-variety, high-veracity, high-variability, value, visualization), big data mining and analytics (including artificial intelligence), and big data applications in health (e.g., quantitative medical imaging applications using deep learning methods).</u></p>
<u>Teaching Methodology</u>	<p><u>The primary teaching methods will be lectures and technology-enhanced learning (computer-based analysis of data). Self-directed learning and group learning will be strongly encouraged by using homework assignments with written and/or oral presentation. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge.</u></p>



<u>Bibliography</u>	<ol style="list-style-type: none">1. <u>Cleophas TJ, Zwiderman, AH. (2021). Regression Analysis in Medical Research. Second edition. Springer.</u>2. <u>Chen D-G, Chen JK. (2021). Statistical Regression Modeling with R. Springer.</u>3. <u>Mitchell MN. (2021). Interpreting and Visualizing Regression Models Using Stata. Stata Press.</u>4. <u>Collet D. (2014). Modelling survival data in medical research. Chapman andHall/CRC.</u>5. <u>Keikhosrokiani P. (Eds) (2022). Big Data Analytics for Healthcare. Elsevier.</u>6. <u>Chen TJ, Carter J, Mahmud M, Khuman AS. (Eds), (2022). Artificial Intelligence in Healthcare. Springer.</u>7. <u>Walker D-M. (2014). An Introduction to Health Services Research. SAGE Publications Ltd.</u>8. <u>Lectures material.</u>									
<u>Assessment</u>	<table><tr><td>Attendance and participation in lectures/lab</td><td>[personal mark]</td><td>20%</td></tr><tr><td>Homework assignments</td><td>[personal mark]</td><td>50%</td></tr><tr><td>Written exams (weeks 14-15 of Semester B)</td><td>[personal mark]</td><td>30%</td></tr></table>	Attendance and participation in lectures/lab	[personal mark]	20%	Homework assignments	[personal mark]	50%	Written exams (weeks 14-15 of Semester B)	[personal mark]	30%
Attendance and participation in lectures/lab	[personal mark]	20%								
Homework assignments	[personal mark]	50%								
Written exams (weeks 14-15 of Semester B)	[personal mark]	30%								
<u>Language</u>	<u>English</u>									

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Course Content	Correlation analysis, estimation methods and concept of likelihood, linear regression, logistic regression, multinomial logistic regression, ordinal logistic regression, Poisson regression, survival analysis, fixed, random, and mixed-effects models, analysis of longitudinal data or data with time-varying covariates, analysis of dependent and hierarchical data, confounding and interaction in regression models, model selection strategies, running advanced methods of data analysis in Stata and R, principles and analysis of data from qualitative research, health services research, description of big data, the v's of big data (high-volume, high-velocity, high-variety, high-veracity, high-variability, value, visualization), big data mining and analytics (including artificial intelligence), and big data applications in health (e.g., quantitative medical imaging applications using deep learning methods).
Teaching-Methodology	The module will be primarily delivered through lectures and lab work on computers. Self-directed learning will be encouraged by using homework assignments that should be presented in essay format and/or orally.
Bibliography	<p>Andreu-Perez, J., Poon, C.C.Y., Merrifield, R. D., Wong, S. T. C., Yang, G. Z., (2015) Big Data for Health. IEEE Journal of Biomedical and Health Informatics, 19(4), 1193-1208.</p> <p>Bowling, A. (2014) Research Methods in Health: Investigating Health and Health Services. McGraw-Hill Education, UK.</p> <p>Collet, D. (2014). Modelling survival data in medical research. Chapman and Hall/CRC.</p> <p>Harrell, Jr, F. E. (2015). Regression modeling strategies: with applications to linear models, logistic and ordinal regression, and survival analysis. Springer.</p> <p>Hosmer, D., Lemeshow, S., Sturdivant, R. (2013). Applied logistic regression. Wiley.</p> <p>Kleinbaum, D. G., Klein, M., & Pryor, E. R. (2002). Logistic regression: a self-learning text. Springer.</p> <p>LeCun, Y., Bengio, Y., Hinton, G. (2015) Deep learning. Nature 21(7553), 436-444.</p> <p>Luo, J., Wu, M., Gopukumar, D., Zhao, Y. (2016) Big Data Application in Biomedical Research and Health Care: A Literature Review. Biomedical Informatics Insights, 8, BII-S31559.</p> <p>Marconi, K., Lehmann H. (2015). Big Data and Health Analytics. Taylor and Francis.</p> <p>Pope C., Mays N. (2007) Qualitative Research in Health Care. Blackwell Publishing Ltd, Oxford, UK.</p> <p>Suárez, E., Pérez, C., Rivera, R., Martínez M. (2017). Applications of regression models in epidemiology. Wiley.</p> <p>Sun, J., Reddy, C.K. (2013) Big Data analytics for Healthcare, Tutorial presentation. SIAM International Conference on Data Mining, Austin, TX.</p>

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Course Title	Measurement in Clinical Settings				
Course Code	MEDMS718				
Course Type	Compulsory				
Level	Postgraduate				
Year / Semester	B'				
Teacher's Name	Panayiotis Yiallourous, Panayiotis Kouis				
ECTS	81 0	Lectures / week The module will run over the entire B semester (weeks 1-13 of semester B) Lectures in weeks 1-9	1 lecture (3 hours each) per week for 9 weeks	Laboratories / week Labs in weeks 10-13	1 lab (3 hours each) per week for 4 weeks
Course Purpose and Objectives	To help students understand the importance of using scientific and rational approaches in clinical settings and equip them with the necessary knowledge and skills to <u>get-obtain</u> and correctly interpret clinical and laboratory measurements <u>for medical and other health-care related practice and research.</u>				
Learning Outcomes	<p>After completing the course, the students should be able to understand the importance of using scientific and rational approaches to disease diagnosis, prognosis, and treatment, to correctly use and interpret sensitivity, specificity, and positive and negative predictive values of clinical and laboratory measurements, to develop and adjust questionnaires, and use Stata and R in the fields of clinical epidemiology and measurement. Knowledge and understanding - The students should be able to:</p> <ul style="list-style-type: none"> • <u>identify and describe the variety of measurement instruments used in clinical settings and research, such as thermometers, blood pressure monitors, pulse oximeters, scales, questionnaires, etc.</u> • <u>explain biological variation and its implications for interpreting clinical and research measurements.</u> • <u>define and explain fundamental measurement concepts, such as accuracy, precision, reliability, and validity.</u> • <u>describe the importance of standardized measurement protocols in clinical and research settings.</u> <p>Skills - The students should be able to:</p> <ul style="list-style-type: none"> • <u>collect and record measurement data efficiently and accurately.</u> • <u>retrieve measurement data using electronic health record systems and other databases.</u> • <u>use measurements to calculate and interpret normal ranges for various biological parameters.</u> • <u>correctly calculate, utilizing also specialized software (such as Stata and</u> 				

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	<p>R), and interpret sensitivity, specificity, and positive and negative predictive values of clinical and laboratory measurements.</p> <ul style="list-style-type: none"> develop and adjust questionnaires. calculate the reliability and validity of questionnaires and scales. implement quality assurance practices in clinical and research measurements to ensure the reliability and validity of data. communicate measurement results to research participants, patients, colleagues, and other healthcare and public health professionals. <p>Attitudes - The students should:</p> <ul style="list-style-type: none"> foster a commitment to ongoing learning and staying current with advancements in measurement technology and techniques in clinical practice and research. cultivate an attitude of meticulousness and attention to detail in measurement processes, minimizing errors through careful observation, to ensure optimal decisions about patient care and population health. adhere to established guidelines to ensure consistency and reliability in measurements. identify ethical challenges related to clinical and research measurements, including patient privacy, informed consent, and the responsible use of measurement data. 		
Prerequisites	<input type="checkbox"/> MEDMS713: Statistical Computing in Medical Research	Required	-
Course Content	<p>Determination of normal range, studies on the natural history of disease, scientific and epidemiological methods in disease aetiology, diagnosis, prognosis, and treatment, determination of normal range, evaluation of clinical and laboratory measurements, sensitivity, specificity, positive and negative predictive value, screening, construction and adjustment of questionnaires, development of scales, reliability and validity of questionnaires and scales, and using Stata and R in clinical epidemiology and measurement.</p>		
Teaching Methodology	<p>The primary teaching methods will be lectures and technology-enhanced learning (computer-based analysis of data). Self-directed learning and group learning will be strongly encouraged by using homework assignments with written and/or oral presentation and journal clubs/seminars. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge. The module will be primarily delivered through lectures and lab work on computers. Self-directed learning will be encouraged by using homework assignments that should be presented in essay format and/or orally.</p>		
Bibliography	<ol style="list-style-type: none"> 1. Fletcher, R., Fletcher S, Fletcher G. (2014). Clinical epidemiology: the essentials. Wolters Kluwer / Lippincott Williams and Wilkins. 2. DeVellis RF, Thorpe CT. (2021). Scale Development Theory and Applications. Sage. 3. Johnson R, Morgan G. (2016). Survey scales. The Guilford Press. 4. Beatty PC, Collins D, Kaye L, Padilla J-L, Willis GB, Wilmot A. (Eds). (2020). Advances in Questionnaire Design, Development, Evaluation, and Testing. Wiley. 5. Lectures material. 		

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<u>Assessment</u>	<u>Attendance and participation in lectures/lab</u>	<u>[personal mark]</u>	<u>20%</u>
	<u>Homework assignments</u>	<u>[personal mark]</u>	<u>50%</u>
	<u>Written exams (weeks 14-15 of Semester B)</u>	<u>[personal mark]</u>	<u>30%</u>
<u>Language</u>	<u>English</u>		

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Bibliography	<p>Fischer, J. & Csercoran, K. (1994). Measures for Clinical Practice and Research. (2nd Ed.) New York: The Free Press.</p> <p>Fletcher, R., Fletcher, S., Fletcher, G. (2014). Clinical epidemiology: the essentials. Wolters Kluwer / Lippincott Williams and Wilkins.</p> <p>Foddy, W. (1993). Constructing questions for interviews and questionnaires. Cambridge University Press.</p> <p>Johnson R., Morgan, G. (2016). Survey scales. The Guilford Press.</p> <p>Hudson, Walter W. (1982). The Clinical Measurement Package: A Field Manual. Tallahassee, FL: WALMYR Publishing Co.</p>
Assessment	<p>Attendance and participation in lectures/lab [personal mark] 10%</p> <p>Homework assignments [personal mark] 30%</p> <p>Written exams (weeks 14-15 of Semester B) [personal mark] 60%</p>
Language	English



Course Title	<u>Systematic Review and Meta-analysis</u>			
Course Code	<u>MEDMS717</u>			
Course Type	<u>Compulsory</u> <u>Elective</u>			
Level	<u>Postgraduate</u>			
Year / Semester	<u>CB'</u>			
Teacher's Name	<u>Artemis Artemiadis, Aikaterini Pantavou, Georgios Nikolopoulos</u>			
ECTS	<u>7.5</u>	<u>Lectures /week</u> <u>The module will run the second 7 weeks (7-13) of semester BC</u> <u>Lectures in weeks 7-11</u>	<u>1 lecture (3 hours each) per week for 5 weeks</u>	<u>Laboratories / week</u> <u>1 lab (3 hours each) per week for 2 weeks</u> <u>Labs in weeks 12-13</u>
Course Purpose and Objectives	<u>To familiarize students with the concept and methods of systematic reviews and meta-analyses, and to equip them with the necessary knowledge and skills to conduct and comprehend systematic reviews and meta-analyses, and interpret their findings.</u>			
Learning Outcomes	<p><u>After completing the course, the students should be able to understand the role of systematic reviews and meta-analyses, and their difference from narrative reviews, to search for biomedical articles in databases in a systematic manner, to correctly interpret the results of meta-analyses that are published in biomedical journals, to understand how clinical guidelines are developed and the role of evidence-based medicine, and to perform meta-analytic techniques in Stata and R.</u></p> <p><u>Knowledge and understanding - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>describe the key components of a well-designed systematic review and meta-analysis.</u> <u>differentiate systematic reviews and meta-analyses from narrative reviews.</u> <u>describe the contribution of systematic reviews and meta-analyses to developing guidelines and to evidence-based medicine and public health.</u> <p><u>Skills - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>develop and register protocols for conducting systematic reviews and meta-analyses.</u> <u>develop effective and systematic strategies for comprehensive literature searches in electronic databases.</u> <u>navigate and employ tools for citation management and data extraction.</u> <u>critically appraise the quality of primary studies using appropriate assessment tools.</u> <u>apply meta-analytic methods utilizing specialized software, such as Stata and R.</u> <u>apply methods to assess and interpret heterogeneity in systematic reviews and meta-analyses.</u> 			

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	<ul style="list-style-type: none"> interpret the results of systematic reviews and meta-analyses including those published in medical and health-related journals. evaluate and critique published systematic reviews and meta-analyses. communicate the results of systematic reviews and meta-analyses in a clear and concise manner suitable for diverse audiences. integrate systematic reviews and meta-analyses findings into decision-making processes. <p>Attitudes - The students should:</p> <ul style="list-style-type: none"> recognize the dynamic nature of evidence synthesis and the need for continuous improvement. cultivate a commitment to transparent reporting and documentation throughout the systematic review and meta-analysis process. recognize the importance of collaboration in producing high-quality systematic reviews and meta-analyses. recognize the potential impact of systematic reviews and meta-analyses on policy, practice, and future research.
Prerequisites	<div> <div> <input type="checkbox"/> MEDMS713: Statistical Computing in Medical Research </div> <div>Required</div> <div>=</div> </div>
Course Content	<p>Concept and principles of systematic reviews and meta-analyses, databases of biomedical literature, registers of systematic reviews (e.g., PROSPERO), strategies of searching and locating biomedical research in databases and in other sources of information, assessing quality of eligible primary studies, flow chart, data extraction, fixed- and random-effects methods of data synthesis, forest plots, publication bias and other biases in meta-analysis, heterogeneity, meta-regression, sensitivity analysis, cumulative meta-analysis, meta-analysis of gene-disease association studies, umbrella reviews, network meta-analysis, guidelines for conducting and reporting systematic reviews and meta-analyses (e.g., PRISMA), developing guidelines and practicing evidence-based medicine, and application of meta-analytic methods in Stata and R.</p>
Teaching Methodology	<p>The primary teaching methods will be lectures and technology-enhanced learning (computer-based retrieval, recording, and analysis of data). Self-directed learning and group learning will be strongly encouraged by using homework assignments with written and/or oral presentation and journal clubs/seminars. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge.</p>
Bibliography	<ol style="list-style-type: none"> Higgins J, Thomas J. (2023). Cochrane Handbook for Systematic Reviews of Interventions. https://training.cochrane.org/handbook/current. Gough D, Oliver S, Thomas J. (Eds). (2017). An Introduction to Systematic Reviews. 2nd edition. Sage Egger M, Smith GD, Altman DG. (2013). Systematic reviews in health care: Meta-analysis in Context, 2nd edition. Wiley Pettiti D. (2000). Meta-analysis, decision analysis and cost-effectiveness analysis. 2nd edition. Oxford University Press. Palmer TM, Sterne JAC, (Eds) (2016). Meta-Analysis in Stata: An Updated Collection from the Stata Journal. 2nd edition. Stata Press. Chen D-G, Peace KE. (2021). Applied Meta-Analysis with R and Stata. CRC Press. Lectures material.

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<u>Assessment</u>	<u>Attendance and participation in lectures/lab</u>	<u>[personal mark]</u>	<u>20%</u>
	<u>Homework assignments</u>	<u>[personal mark]</u>	<u>50%</u>
	<u>Written exams (weeks 14-15 of Semester C)</u>	<u>[personal mark]</u>	<u>30%</u>
<u>Language</u>	<u>English</u>		

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<u>Teaching-Methodology</u>	<u>The module will be primarily delivered through lectures and lab work on computers. Self directed learning will be encouraged by using homework assignments that should be presented in essay format and/or orally.</u>
<u>Bibliography</u>	<u>Berenstein, M., Hedges, L. V., Higgins, J., and Rothstein, H. R. (2009). Introduction to Meta-Analysis. Wiley.</u> <u>Cochrane collaboration. (2017). Cochrane Handbook for Systematic Reviews of Interventions. Online.</u> <u>Centre for Reviews and Dissemination – CRD's Guidance. (2009). Systematic Reviews. Online.</u> <u>Egger M, Smith GD, Altman DG. (2008). Systematic reviews in health care: Meta analysis in Context. Online.</u> <u>Petitti, D. (2000). Meta analysis, decision analysis and cost-effectiveness analysis. Oxford University Press.</u>
<u>Assessment</u>	<u>Attendance and participation in lectures/lab [personal mark] 10%</u> <u>Homework assignments [personal mark] 30%</u> <u>Written exams (weeks 14-15 of Semester B) [personal mark] 60%</u>
<u>Language</u>	<u>English</u>



<u>Course Title</u>	<u>Introduction to Qualitative Research</u>				
<u>Course Code</u>	<u>MEDMS721</u>				
<u>Course Type</u>	<u>Elective</u>				
<u>Level</u>	<u>Postgraduate</u>				
<u>Year / Semester</u>	<u>C'</u>				
<u>Teacher's Name</u>	<u>(To be appointed)</u>				
<u>ECTS</u>	<u>5</u>	<u>Lectures / week</u> <u>The module will run the first 6 weeks (1-6) of semester C,</u>	<u>1 lecture (3 hours each) per week</u> <u>for 4 weeks (weeks 1, 2, 4, and 6)</u>	<u>Laboratories / week</u> <u>Labs in weeks 3 and 5,</u>	<u>1 lab (3 hours each) per week</u> <u>for 2 weeks</u>
<u>Course Purpose and Objectives</u>	To enable students to develop a basic understanding of qualitative research methodologies, principles, and philosophical underpinnings, and to provide them with basic practical skills in designing, conducting, and analyzing qualitative research studies, including data collection and interpretation techniques.				
<u>Learning Outcomes</u>	<p>Knowledge and understanding - The students should be able to:</p> <ul style="list-style-type: none"> describe the philosophical underpinnings of qualitative inquiry. differentiate between major qualitative research paradigms, such as phenomenology, grounded theory, ethnography, and case study. articulate the steps involved in designing a qualitative research study. describe various qualitative data collection methods, including interviews, focus groups, participant observation, and document analysis. explain different sampling strategies used in qualitative research, such as purposeful sampling, snowball sampling, and theoretical sampling. describe different approaches to qualitative data analysis, including thematic analysis, grounded theory, content analysis, and narrative analysis. <p>Skills - The students should be able to:</p> <ul style="list-style-type: none"> design a qualitative research study, including formulating research questions. conduct qualitative interviews. plan and moderate focus group discussions. analyze qualitative data, including coding, categorization, and thematic analysis, using software tools such as ATLAS.ti. create clear and coherent qualitative research reports. assess the quality of published qualitative research, including credibility, transferability, dependability, and confirmability. communicate qualitative research findings effectively to diverse audiences, including researchers, policymakers, and practitioners. <p>Attitudes - The students should:</p>				

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	<ul style="list-style-type: none">• cultivate a commitment to ongoing learning in the field of qualitative research, recognizing the dynamic nature of research methodologies.• cultivate a curious and inquisitive attitude, fostering a desire to explore and understand the complexities of human experiences.• cultivate empathy and sensitivity towards participants' experiences, recognizing and understanding their emotions, thoughts, and cultural contexts.• recognize and explore the potential for integrating qualitative and quantitative research methods.• emphasize the importance of ethical conduct in qualitative research, instilling a commitment to uphold the highest ethical standards in interactions with participants and handling of data.											
Prerequisites	=	Required	=									
Course Content	<u>Overview of qualitative research, history and development of qualitative research, research paradigms in qualitative research (phenomenology, grounded theory, ethnography, case study), research questions and objectives, sampling in qualitative research (e.g., purposeful sampling, snowball sampling, theoretical sampling), data collection methods (in-depth interviews, focus groups, participant observation, document analysis, visual methods), qualitative data analysis (coding and categorization, thematic analysis, narrative analysis), software tools for qualitative data analysis (such as ATLAS.ti), rigor in qualitative research (credibility, transferability, dependability, confirmability), ethical issues in qualitative research including power dynamics, writing qualitative research reports (structure and organization of a qualitative research report and incorporating quotes and narratives), mixed-methods research.</u>											
Teaching Methodology	<u>The primary teaching methods will be lectures and technology-enhanced learning (computer-aided transcription, coding, and analysis of data from qualitative research). Self-directed learning and group learning (receiving feedback and guidance throughout the process) will be strongly encouraged by using homework assignments (such as designing and conducting a small-scale qualitative research project) with written and/or oral presentation and journal clubs/seminars. The course focuses on active learning, i.e., putting knowledge into practice and critically reflecting upon the knowledge.</u>											
Bibliography	<ol style="list-style-type: none">1. <u>Hennink, M., Hutter, I., Bailey, A. (2020). Qualitative Research Methods. Sage.</u>2. <u>Green, J., Thorogood N. (2018). Qualitative Methods for Health Research. Sage.</u>3. <u>Flick U. (2018). An introduction to qualitative research. Sage.</u>4. <u>Lectures material.</u>											
Assessment	<table><tr><td>Attendance and participation in lectures/lab</td><td>[personal mark]</td><td>20%</td></tr><tr><td>Homework assignments</td><td>[personal mark]</td><td>50%</td></tr><tr><td>Written exams (weeks 14-15 of Semester C)</td><td>[personal mark]</td><td>30%</td></tr></table>			Attendance and participation in lectures/lab	[personal mark]	20%	Homework assignments	[personal mark]	50%	Written exams (weeks 14-15 of Semester C)	[personal mark]	30%
Attendance and participation in lectures/lab	[personal mark]	20%										
Homework assignments	[personal mark]	50%										
Written exams (weeks 14-15 of Semester C)	[personal mark]	30%										
Language	English											

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<u>Course Content</u>	<p><u>Lectures cover six broad areas:</u></p> <ul style="list-style-type: none"> • <u>Overview of Computational Biology and Bioinformatics.</u> • <u>Fundamentals of sequence comparison.</u> • <u>Comparative genomics.</u> • <u>Gene/protein annotation (function prediction).</u> • <u>Biological networks.</u> • <u>Structural bioinformatics.</u> <p><u>During the course, students are handed classic papers of the field (including authoritative reviews) as well as selected recent original research articles followed by discussion groups. Papers discussing controversial issues are the basis of individual assignments resulting in oral presentations and discussion groups. A group project (2-3 students per group), using freely available or simulated real-world data and freely available tools, is presented at the end of the semester (written report and oral presentation) followed by discussion.</u></p>								
<u>Teaching Methodology</u>	<u>The primary teaching methods will be lectures; discussions and student presentations; discussions of research papers; presentations of scientific articles; collaborative work (group assignment).</u>								
<u>Bibliography</u>	<ol style="list-style-type: none"> 1. Zvelebil M, Baum JO. (2009). <u>Understanding Bioinformatics. Garland Science, ISBN-13:978-0-8153-4024-9.</u> 2. Mount DW. <u>Bioinformatics: Sequence and Genome Analysis, (2004). 2nd edition. CSHL Press, ISBN-0-87969-597-8.</u> 3. Pevsner J. (2003). <u>Bioinformatics and functional genomics. ISBN 0-47121-004-8.</u> 4. <u>Classic papers in bioinformatics.</u> 5. <u>Selected papers of interest.</u> 6. <u>Lectures material.</u> 								
<u>Assessment</u>	<table> <tr> <td>Homework assignments</td><td>10%</td></tr> <tr> <td>Seminar [group project]</td><td>20%</td></tr> <tr> <td>Midterm exam</td><td>20%</td></tr> <tr> <td>Final exam</td><td>50%</td></tr> </table> <p><u>Optional component: mini research project (up to 40%).</u></p>	Homework assignments	10%	Seminar [group project]	20%	Midterm exam	20%	Final exam	50%
Homework assignments	10%								
Seminar [group project]	20%								
Midterm exam	20%								
Final exam	50%								
<u>Language</u>	<u>English</u>								

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Course Title	Master Thesis			
Course Code	MEDMS719			
Course Type	Compulsory			
Level	Postgraduate			
Year / Semester	C'			
Teacher's Name	All faculty of Medical School and UCY, and scientific collaborators			
ECTS	230	Lectures /week	-	Laboratories / week / -
Course Purpose and Objectives	To help students put into practice (medical and health-related research) , concepts and methods, <u>regarding medical and health-related research, that they learnt during the compulsory and elective modules of the course.</u> Research findings should be of a level suitable for presentation at conferences or publication in a peer-reviewed journal.			
Learning Outcomes	<p>After completing the thesis, the students should be able to independently conduct original research (including meta-analyses). <u>Knowledge and understanding - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>describe the foundational concepts and principles of medical and health-related research.</u> <p><u>Skills - The students should be able to:</u></p> <ul style="list-style-type: none"> <u>conduct a thorough and critical review of relevant literature in the chosen medical research area.</u> <u>formulate clear and testable research hypotheses or research questions based on the gaps identified in the literature.</u> <u>design and justify a rigorous research study in the medical and health-related field, considering appropriate methodologies, research questions, strengths, and limitations.</u> <u>select, justify, and use appropriate data collection instruments, such as surveys, interviews, or laboratory tests, considering their validity and reliability.</u> <u>choose, justify, and use appropriate statistical or qualitative analysis methods for the study's objectives.</u> <u>interpret research findings in the context of existing literature and theoretical frameworks.</u> <u>write a clear, well-organized, and scientifically rigorous thesis following established guidelines.</u> <u>communicate research findings effectively to both expert and non-expert audiences.</u> <u>use various channels for disseminating research findings, including academic journals, conferences, public forums, and social media.</u> <u>work effectively within a research team.</u> <p><u>Attitudes - The students should:</u></p> <ul style="list-style-type: none"> <u>demonstrate an unwavering commitment to ethical conduct in all aspects of medical and health-related research, including participant recruitment,</u> 			

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	<p><u>data collection, and dissemination of findings.</u></p> <ul style="list-style-type: none"> <u>• cultivate resilience in the face of challenges and setbacks encountered during the research process.</u> <u>• foster an open and receptive attitude towards constructive criticism and feedback from advisors, peers, and reviewers.</u> <u>• embrace a sense of accountability for the methodological rigor and quality of the research.</u> <u>• cultivate an inquisitive mindset, continuously seeking to deepen understanding and explore novel aspects within the chosen research topic.</u> <u>• demonstrate respect for diverse perspectives, acknowledging the multidisciplinary nature of medical and health-related research.</u> <u>• adopt a participant-centered approach, recognizing the importance of research outcomes in improving population health and patient care and outcomes.</u> <u>• approach the research process with a willingness to learn from both successes and failures.</u> <u>• uphold the highest standards of scientific integrity, avoiding any form of data manipulation, fabrication, or misconduct.</u> <u>• recognize and appreciate the value of collaboration in medical and health-related research.</u> <u>• embrace a commitment to continuous learning.</u> 		
Prerequisites	All compulsory courses and one of the electives depending on the thesis.	Required	-
Course Content	<p><u>Literature review, formulation of hypotheses, Research design, collection and analysis of data, presentation and interpretation, presentation, and dissemination of results or systematic review with meta-analysis on a specific research question.</u></p>		
Teaching Methodology	Individual study, theoretical or experimental research supervised by faculty members of Medical School and UCY, and/or scientific collaborators.		
Bibliography	Depending on the subject of the Master Thesis.		
Assessment	Paper/report	80%	
	Presentation	20%	
Language	English		

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ANNEX 3 – DETAILED BIOGRAPHICAL NOTES

FORM NUM: 500.1.03

Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Artemiadis
Name:	Artemios
Rank/Position:	Assistant Professor of Neurology
Faculty:	Medical School
Department:	Neurology
Scientific Domain: *	Neurology, Methodology of Research

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
Medical Doctor (Physician)	2005	National Kapodistrian University of Athens	-	-
Master of Science in the "Science of Stress and Health Promotion"	2011	National Kapodistrian University of Athens	-	Stress management in patients with multiple sclerosis. Pilot experimental study
PhD in Medicine	2018	National Kapodistrian University of Athens	Neurology Dpt, Aeginition University Hospital	Neurophysiological and neuropsychological evaluation of cognitive impairment in multiple sclerosis patients

Academic Staff Short Profile

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Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2018	2023	University of Cyprus	Nicosia, Cyprus	Visiting Assistant Professor of Neurology
<u>2023</u>	<u>-</u>	<u>University of Cyprus</u>	<u>Nicosia, Cyprus</u>	<u>Assistant Professor of Neurology</u>

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Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	The Diversity of Astrocyte Activation during Multiple Sclerosis: Potential Cellular Targets for Novel Disease Modifying Therapeutics.	Barmpagiannos K, Theotokis P, Petratos S, Pagnin M, Einstein O, Kesidou E, Boziki M, Artemiadis A, Bakirtzis C, Grigoriadis N.	Healthcare (Basel).	11	1585
2	2023	Rare Causes of Cerebral Venous Sinus Thrombosis: A Systematic Review.	Theologou R, Nteveros A, Artemiadis A, Faropoulos K.	Life (Basel)	13	1178
3	2023	A case of unusual presentation with anti-glycine receptor (GlyR) and myelin oligodendrocyte glycoprotein (MOG) antibody	Kalampokini S, Motkova I, Bargiotas P, Artemiadis A, Zis P, Hadjigeorgiou G.	PRDOA	8	10019 5
4	2022	Translation, cross-cultural adaptation, and validation of the Greek version of the Multiple Sclerosis Intimacy and Sexuality Questionnaire-19.	Nikolaidis I, Karakasi MV, Artemiadis A, Nteli E, Bakirtzis C, Boziki MK, Foley FW, Grigoriadis N.	Somatosens Mot Res.	20	1-10
5	2022	Prevalence and determinants of chronic pain post-COVID; Cross-sectional study.	Zis P, Ioannou C, Artemiadis A, Christodoulou K, Kalampokini S, Hadjigeorgiou GM.	J Clin Med	11	5569

6	2021	Myelopathy associated with SARS-COV-2 infection. A systematic review.	Artemiadis A, Liampas A, Hadjigeorgiou L, Zis P.	Neurol Res.	43	633-641
7	2021	Brief international cognitive assessment for multiple sclerosis (BICAMS) cut-off scores for detecting cognitive impairment in multiple sclerosis.	Artemiadis A, Bakirtzis C, Chatzittofis A, Christodoulides C, Nikolaou G, Boziki MK, Grigoriadis N.	Mult Scler Relat Disord	49	102751
8	2020	The role of cognitive reserve in multiple sclerosis: A cross-sectional study in 526 patients.	Artemiadis A, Bakirtzis C, Ifantopoulou P, Zis P, Bargiotas P, Grigoriadis N, Hadjigeorgiou G.	Mult Scler Relat Disord	41	102047
9	2018	Structural MRI correlates of cognitive event-related potentials in multiple sclerosis.	Artemiadis AK, Anagnostouli MC, Zalonis IG, Chairopoulos KG, Triantafyllou NI.	J Clin Neurophysiol	35	399-407
10	2012	Stress management and multiple sclerosis: A randomized controlled trial.	Artemiadis AK, Vervainioti AA, Alexopoulos EC, Rombos A, Anagnostouli MC, Darviri C.	Arch Clin Neuropsychol	27	406-416

Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
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**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2022	Neuropsychological Assessments in COVID-19 Survivors (NEA-COV study)	no	Project Coordinator
2	2020	Prevalence and natural history of chronic pain and peripheral neuropathy" in Cyprus	no	Research team member
3	2020	Prevalence and natural history of chronic pain and PNS involvement in patients with gluten sensitivity in Cyprus	no	Research team member
4	2021	Prevalence of Sleep wake disturbances survivors of Encephalitis and meningitis (PreSEnce)	no	Research team member
5	2022	Sleep and Sleep-related Motor Control following Brainstem Stroke (SaSMoS study): an electrophysiological and neuroimaging study	no	Research team member
6	2023	COVALENT: A COVID-19 Clinical, Research and Phenotyping Network	ISIDORE	Research team member
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**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2022-today	Neuroimmunology (Journal of HELLANI, Greek)	Editorial committee	Editorial services
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Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2020	1st award best research: Nteveros A, Artemiadis A, Bargiotas P, Hadjigeorgiou G, Zis P. Medical education during COVID-19 pandemic: Distance learning, burn-out and mental health	28th Panhellenic Congress of Psychiatry, Thessaloniki, Greece
2	2022	3rd Award best ePoster: A. Liampas, T. Pozotou, A. Artemiadis, G. Hadjigeorgiou, P. Zis. The use of immunoglobulins (IG) for the management of peripheral neuropathic pain; systematic review and meta-analysis.	39th Annual ESRA Congress, Thessaloniki, Greece
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Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
1	2011	Post-graduate Program "The Science of Stress and Health Promotion", Medical School of Athens, National Kapodistrian University of Athens, Athens, Greece	Distinction of performance scholarship (1 st place)
2	2012	HEAL-Stress Study funded by the European Union Financial Framework, 2007-2013-ESF-NSRF Funding-370542 (principal investigator: prof. George Chrousos)	Contributed to the design and funding (938.950 euros)
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Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Baxevani
Name:	Anastassia
Rank/Position:	Associate Professor
Faculty:	School of Science
Department:	Mathematics and Statistics
Scientific Domain: *	Applied Probability and Statistics

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	2004	University of Lund	Mathematical Statistics	Crossing distributions for sea surface dynamics
Docent	2011	University of Gothenburg	Mathematics	
MSc	2000	Purdue University (Indianapolis campus)	Applied Statistics	
MSc	1998	Purdue University (Indianapolis campus)	Mathematics	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2019	today	University of Cyprus	Cyprus	Associate Professor
2012	2019	University of Cyprus	Cyprus	Assistant Professor
2007	2011	University of Cothenburg	Sweden	Forskarassistent (eq. to Assistant Professor)

Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2022	Kaniadakis Functions beyond Statistical Mechanics: Weakest-Link Scaling, Power-Law Tails, and Modified Lognormal Distribution	D. Hristopulos	Entropy	24	
2	2021	Signals Featuring Harmonics With Random Frequencies–Spectral, Distributional and Ergodic Properties	K. Podgorski	IEEE Transactions on Signal Processing	69	2779-2794
3	2021	Modeling the first wave of Covid-19 pandemic in the Republic of Cyprus	S. Agapiou, A. Anastasiou, C. Nicolaides, G. Hadjigeorgiou, T. Christofides, E. Constantinou, G. Nikolopoulos, K. Fokianos	Scientific Reports	11	7342 -
4	2018	Prediction of catastrophes in space over time	R. Wilson	Extremes	21	601-628
5	2020	Effective probability distribution approximation for the reconstruction of missing data	D. Hristopulos	Stochastic environmental research and risk assessment	32	931-948

6	2008	Modelling precipitation in Sweden using multiple step Markov chains and a composite model	J Lennartsson, D Chen	Journal of hydrology	363	42-59
7	2015	A spatiotemporal precipitation generator based on a censored latent Gaussian field	J Lennartsson	Water Resources Research	51	4338-4358
8	2006	Maxima for Gaussian seas	I. Rychlik	Ocean Engineering	33	895-911
9	2018	Very short-term spatio-temporal wind power prediction using a censored Gaussian field	A. Lenzi	Stochastic environmental research and risk assessment	32	931-948
10	2009	Spatio-temporal statistical modelling of significant wave height	S. Caires, I. Rychlik	Environmetrics	20	14-31

Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
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**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
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**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
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Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
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Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
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Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Constantinidou
Name:	Anastasia
Rank/Position:	Assistant Professor
Faculty:	Medical School
Department:	Internal Medicine
Scientific Domain: *	Oncology / Haematology

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	2015	The Institute of Cancer Research University of London	Molecular Pathology	Identification of Genes Involved in the Differentiation of Liposarcomas as Novel Therapeutic Targets
MSc	2010	The Institute of Cancer Research University of London	Oncology	
MD	1998	National Kapodistrian University of Athens Greece	Medical School	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
Oct 2020	now	University of Cyprus	Nicosia Cyprus	Assistant Professor
Oct 2016	Sept 2020	University of Cyprus	Nicosia Cyprus	Lecturer
Oct 2015	Sept 2016	The Institute of Cancer Research	London UK	Clinical Researcher

Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	New Insights in the Era of Clinical Biomarkers as Potential Predictors of Systemic Therapy-Induced Cardiotoxicity in Women with Breast Cancer: A Systematic Review	Alexandraki A, Papageorgiou E, Zacharia M, Keramida K, Papakonstantinou A, Cipolla CM, Tsekoura D, Naka K, Mazzocco K, Mauri D, Tsiknakis M, Manikis GC, Marias K, Marcou Y, Kakouri E, Konstantinou I, Daniel M, Galazi M, Kampouroglou E, Ribnikar D, Brown C, Karanasiou G, Antoniadis A, Fotiadis D, Filippatos G	Cancers	2023 Jun 22;15(13):3290	
2	2023	Patients' perspectives related to ethical issues and risks in precision medicine: a systematic review	Ahmed L, A, Chatzittofis A.	Front Med	2023 Jun 15;10:1215663	
3	2023	Osteosarcoma: Current Concepts and Evolutions in Management Principles	Pilavaki P, Gahanbani Ardakani A, Gikas P	J Clin Med	2023 Apr 9;12(8):2785	
4	2023	Triple negative breast cancer: Immunogenicity, tumor	Loizides S	Front Genet.	2023 Jan	

		microenvironment, and immunotherapy.			12;13:1 095839	
5	2023	Exploring the landscape of immunotherapy approaches in sarcomas.	Pilavaki P, Panagi M, Arifi S, Jones RL, Stylianopoulos T	Front Oncol	2023 Jan 9;12:1 06996 3	
6	2022	Nanomechanical properties of solid tumors as treatment monitoring biomarkers.	Stylianou A, Mpekris F, Voutouri C, Papoui A, Constantinidou A, Kitiros E, Kailides M, Stylianopoulos T.	Acta Biomater	2022 Dec;15 4:324- 334	
7	2022	Immunotherapy in soft tissue and bone sarcoma: unraveling the barriers to effectiveness	Panagi M, Pilavaki P, Stylianopoulos T.	Theranostics	2022 Aug 15;12(14):61 06- 6129	
8	2022	Clinical Validation of EndoPredict in Pre-Menopausal Women with ER-Positive, HER2-Negative Primary Breast Cancer.	Marcou Y, Toss MS, Simmons T, Bernhisel R, Hughes E, Probst B, Meek S, Kakouri E, Georgiou G, Zouvani I, Savvidou G, Kuhl V, Doedt J, Wagner S, Gutin A, Slavin TP, Lanchbury JS, Kronenwett R, Ellis IO, Rakha EA.	Clin Cancer Res	2022 Oct 14;28(20):44 35- 4443	
9	2020	Intermittent schedules of the oral RAF-MEK inhibitor CH5126766/VS-6766 in patients with RAS/RAF-	Guo C, Chénard-Poirier M, Roda D, de Miguel M, Harris SJ, Candilejo IM, Sriskandarajah P, Xu W,	Lancet Oncol.	2020 Nov;21 (11):14	

		mutant solid tumours and multiple myeloma: a single-centre, open-label, phase 1 dose-escalation and basket dose-expansion study	Scaranti M, Constantinidou A, King J, Parmar M, Turner AJ, Carreira S, Riisnaes R, Finneran L, Hall E, Ishikawa Y, Nakai K, Tunariu N, Basu B, Kaiser M, Lopez JS, Minchom A, de Bono JS, Banerji U.		78-1488	
10	2019	Targeting Programmed Cell Death -1 (PD-1) and Ligand (PD-L1): A new era in cancer active immunotherapy	Alifieris C, Trafalis DT.	Pharmacol Ther	2019 Feb;194:84-106	

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2022	Precision medicine in breast cancer: biomarker identification, BIOBREAST I	RIF	Coordinator
2	2022	Strengthening ehealth including telemedicine and remote monitoring in health and care systems for cancer prevention and care	HORIZON EUROPE	Co- investigator
3	2021	An interdisciplinary approach for the management of the elderly multimorbid	HORIZON 2020	Local Coordinator

		patient with breast cancer therapy induced cardiac toxicity, CARDIOCARE		
4	2021	INTERACT-EUROPE Innovative collaboration for Inter-specialty cancer training across Europe	EU4 Health Programme (EU4H)	Co – investigator
5	2020	Mechanical Biomarkers for Prediction of Cancer Immunotherapy with the Acronym: "Immuno-Predictor	HORIZON EUROPE	Co - Investigator
6	2019	Establishment of a pre-synchrotron platform in Cyprus	RIF	Co - Investigator

**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2020 – onwards	EURACAN	Coordinator Affiliated National Centre and Coordination Hub (Cyprus) for rare adult cancers, EURACAN	
2	2020 – onwards	Cyprus Cancer Research Institute	Acting Research Director	
3	2019 – onwards	Cyprus Oncology Society	Secretary and Vice President	
4	2019 – onwards	ESMO	Representative of Cyprus in the ESMO National Societies Committee	
5	2018 – onwards	National Bioethics Committee	Member	

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2023	Local organiser of the Sarcoma Group Meeting, European Organisation for Research and Treatment in Cancer (EORTC)	EORTC
2	2022	Invited Speaker and round table discussant. Paris France. Annual European Society for Medical Oncology (ESMO) Congress. Symposium: Controversies in breast and ovarian cancer genetics. 12-09-2022.	ESMO
3	2022	Invited Member, EURACAN Steering Committee	EURACAN
4	2021	Local chair European School of Oncology (ESO) (Southern Europe and Arab Countries) Meeting for oncology trainees and junior oncologists	ESO
5	2021	Invited speaker. 33rd European Congress of Pathology. Session - Gene Expression in Breast and Prostate Cancer: New Opportunities for in House Risk Assessment.	European Pathology Society
6	2020	Recipient of the Young Investigator Award in Life Sciences	RIF

Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Dietis
Name:	Nikolas
Rank/Position:	Assistant Professor
Faculty:	Medicine
Department:	Medicine
Scientific Domain: *	Pharmacology

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
BSc Pharmacology	2002	University of Portsmouth	School of Pharmacy and Biomedical Sciences	Factors affecting the encapsulation of heparin in liposomes.
BSc Pharmacology & Neuroscience	2007	Nottingham Trent University	School of Biomedical and Natural Sciences	Neuronal differentiation of embryonic stem cells and their therapeutic application in regenerative neuroscience
MRes Applied Biosciences	2008	Nottingham Trent University	School of Science & Technology, Nottingham	Cloning and expression of a synthetic κ - δ opioid receptor heterodimer in HEK293 cells
PhD Pharmacology	2012	University of Leicester	Medicine	Strategies to reduce morphine tolerance in cancer: evaluation of the bifunctional opioid UFP-505

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2012	2012	University of Leicester	Leicester	Post-doctoral researcher
2013	2015	University of Tasmania	Australia	Lecturer
2015	current	University of Cyprus	Cyprus	Assistant Professor

Key <u>refereed</u> journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	Photophysical and biological assessment of coumarin-6 loaded polymeric nanoparticles as a cancer imaging agent	Yiota Gregoriou Gregoria Gregoriou, Andreas Manoli. Paris Papageorgis. Benedict Mc Larney Despoina Vangeli, Sarah McColman Vural Yilmaz, Hsiao-ting Hsu, Magdalena Skubal, Anuja Ogirala, Evangelia Athanasiou, David T. Cramb, Katerina Strati, Grigorios Itskos, Andreas I.	Sensors & Diagnostics		

			Constantinou and Chrysafis Andreou			
2	2023	Preliminary In Vitro and In Vivo Insights of In Silico Candidate Repurposed Drugs for Alzheimer's Disease	Savva, K.; Zachariou, M.; Kynigopoulos, D.; Fella, E.; Vitali, M.-I.; Kosofidou, X.; Spyrou, M.; Sargiannidou, I.; Panayiotou, E.; Spyrou G	Life	13	1095
3	2023	Vir2Drug: a drug repurposing framework based on protein similarities between pathogens	George Minadakis, Marios Tomazou, George M Spyrou	Briefings in Bioinformatics	24(1)	
4	2022	Optically Active Bionanomachine Interfaces Build Therapeutic Nanonetworks for Glioblastoma Multiforme	Avraam El Hamidieh; Nikolaos Dietis; Anatoliy Samoylenko; Ina Meiser; Niovi Nicolaou; Eslam Abdel	IEEE 16th International Symposium on Medical Information and Communication Technology		1-6
5	2022	Network-based stage-specific drug repurposing for Alzheimer's disease.	Savva K, Zachariou M, Bourdakou MM, Spyrou GM.	Comput Struct Biotechnol J.	20	1427-1438.
6	2022	Differential Effects of a Novel Opioid Ligand UTA1003 on Antinociceptive Tolerance and Motor Behaviour.	Paul, A.K.; Woolley, K.L.; Rahmatullah, M.; Wilairatana, P.; Smith, J.A.; Gueven, N.;	Pharmaceuticals	15	789
7	2021	Multi-omics data integration and network-based analysis drives a multiplex drug repurposing approach to a shortlist of candidate drugs against COVID-19	Tomazou M, Bourdakou M, Minadakis G, Zachariou M, Oulas, Karatzas E, Loizidou E, Kakouri A, Christodoulou C, Savva K, Zanti M, Onisiforou A,	Briefings in Bioinformatics	22 (6)	

			Afxenti S, Richter J, Christodoulou C, Kyprianou T, Kolios G., Spyrou G.			
8	2021	Resveratrol loaded polymeric micelles for theranostic targeting of breast cancer cells	Gregoriou Y, Gregoriou G, Yilmaz V, Kapnisis K, Prokopi M, Anayiotos A, Strati K, Constantinou AI, Andreou C.	Nanotheranostics	5(1)	113-124
9	2021	Profiling the Effects of Repetitive Morphine Administration on Motor Behavior in Rats	Paul, A.K., Gueven, N,	Molecules	21	4355
10		Gaps in Knowledge About SARS-CoV-2 & COVID-19 Among University Students Are Associated With Negative Attitudes Toward People With COVID-19: A Cross-Sectional Study in Cyprus.	Middleton N, Tsioutis C, Kolokotroni O, Heraclides A, Theodosios-Nobelos P, Mamais I, Pantelidou M, Tsaltas D, Christaki E, Nikolopoulos G,	Front Public Health.	19(9)	

5	2021	Effects of a mixed-profile opioid UTA1003 on analgesic tolerance and motor behavior	International	International Narcotics Research Conference (INRC).	Poster
6	2020	Growing Bio-nanomachine Networks: Application to Malignant Tumor Evolution and Progression.	International	IEEE GLOBECOM 2020.	Oral presentation and conference paper
7	2017	Current clinical studies that show efficiency in primary brain tumours.	Local	3rd Cyprus Oncology Conference, Cyprus.	Poster
8	2017	Exploring the anticancer effects of opioids: a scoping review of the literature.	Local	3rd Cyprus Oncology Conference, Cyprus.	Poster
9	2017	Morphine dosing regimen determines the inhibitory and excitatory effect on motor behaviour and antinociceptive tolerance.	International	European Behavioural Pharmacology Society (EBPS), Biennial Meeting, Heraklion, Greece.	Poster
10	2017	Stress-induced memory deficit in depression: a role for oxidative stress	International	International Conference for Cognitive	Poster

				Neuroscience (ICON), Netherlands.	
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** Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2023	DEVELOPING A PAIN BIOSENSOR IN CANCER PATIENTS USING A NOVEL PAIN BIOMARKER (PIONEER)	UCY	PI
2	2019	The University of Cyprus action against antimicrobial resistance (START)	UCY	PI
3	2020	Bacterial detection in patients with sepsis using the MinION	UCY	Co-PI
4	2019	Innovative Strategies for the Management of Malignant Gliomas with Bioinspired Nanonetworks: A Molecular Communication-Based Approach	Cyprus Research and Innovation Foundation	Co-PI
5	2018	Synthesis of canthin-4-ones and azepino fused quinolones	Cyprus Research and Innovation Foundation	Co-PI
6	2017	Integrated Precision Medicine Technologies (IPMT) Research Centre of Excellence.	Horizon 2020, Teaming	Collaborator

*Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2023	Medochemie Ltd	Study of pharmacological properties of the molecule "nanorifaximin"	In vivo toxicity study, in vivo GI distribution study, in vivo safety study
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Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2020	Best Paper Award	Institute of Electrical and Electronics Engineers (IEEE)
2	2015	Teaching Merit Certificate	University of Tasmania
3	2015	Pharmacy King Teaching Award	Tasmanian Association of Pharmacy Students
4	2014	Teaching Merit Certificate	University of Tasmania
5	2010	Schachter Award	British Pharmacological Society
6	2010	i-Qube Award	University of Leicester
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Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
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Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Koliou
Name:	Maria
Rank/Position:	Assistant Professor
Faculty:	Medical School
Department:	Department of Paediatrics
Scientific Domain: *	Paediatric Infectious Diseases / Public Health

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	1995	University of Athens	School of Medicine	
MSc Clinical Microbiology	2002	University of London- St Bartholomew's and the Royal London	School of Medicine and Dentistry	
MPH	2015	European University Cyprus	School of Sciences	
Ptychion Iatrikis (MD)	1984	University of Athens	School of Medicine	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2019	today	University of Cyprus	Nicosia	Assistant Professor
2012	2018	St George's Medical Program at the University of Nicosia	Nicosia	Associate Professor
2008	2011	Cyprus University of Technology	Limassol	Special Teaching Staff

Key <u>refereed</u> journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	Epidemiology and risk factors for resistance to treatment of Kawasaki disease in Cyprus	Koliou MG , Aristidou A, Mazeri S, Georgiou E, Agathocleous M, Kousparou M, Elia A, Jossif A.	Sci Rep. 2023 Jan 7;	13(1)	352-
2	2023	Climate change and human health in the Eastern Mediterranean and Middle East: Literature review, research priorities and policy suggestions	Neira M, Erguler K, Ahmady-Birgani H, Al-Hmoud ND, Fears R, Gogos C, Hobbhahn N, Koliou M , Kostrikis LG, Lelieveld J, Majeed A, Paz S, Rudich Y, Saad-Hussein A, Shaheen M, Tobias A, Christophides G.	Environ Res. 2023	Jan 1; 216(Pt 2)	11453 7
3	2022	Congenital syphilis as the cause of multiple bone fractures in a young infant case report	Koliou M , Chatzicharalampous E, Charalambous M, Aristeidou K.	BMC Pediatr. 2022	Dec 21;22(1)	728
4	2022	First detection of WNV RNA presence in field-collected mosquitoes in Cyprus	Pallari CT, Christodoulou V, Koliou M , Kirschel ANG.	Acta Trop. 2022	Jul ;231: 106470.	106470

5	2022	Exploring vaccination coverage and attitudes of health care workers towards influenza vaccine in Cyprus	Papageorgiou C, Mazeri S, Karaiskakis M, Constantinou D, Nikolaides C, Katsouris S, Patsalou M, Kourouzidou D, Pantelas G, Koliou M.	Vaccine. 2022	Mar 15;40(12):1775-1782.	1775-1782.
6	2021	Exploring the factors associated with the mental health of frontline healthcare workers during the COVID-19 pandemic in Cyprus	Kapetanos K, Mazeri S, Constantinou D, Vavlitou A, Karaiskakis M, Kourouzidou D, Nikolaides C, Savvidou N, Katsouris S, Koliou M.	PLoS One. 2021	Oct 14;16(10)	e0258475.
7	2009	Clinical and microbiological characteristics of severe Streptococcus pyogenes disease in Europe	Luca-Harari B, Darenberg J, Neal S, Siljander T, Strakova L, Tanna A, Creti R, Ekelund K, Koliou M , Tassios PT, van der Linden M, Straut M, Vuopio-Varkila J, Bouvet A, Efstratiou A, Schalén C, Henriques-Normark B; Strep-EURO Study Group; Jasir A.	J Clin Microbiol. 2009	Apr;47(4):	1155-65.
8	2020	Epidemiology of invasive meningococcal disease in Cyprus 2004 to 2018	Koliou M , Kasapi D, Mazeri S, Maikanti P, Demetriou A, Skordi C, Agathocleous M, Tzanakaki G, Constantinou E..	Euro Surveill. 2020	Jul;25(30)	1900534

9	2018	Lymphadenitis by non-tuberculous mycobacteria in children	Loizos A, Soteriades ES, Pieridou D, Koliou MG.	Pediatr Int. 2018	Dec;60(12):	1062-1067
10	2018	Risk factors for carriage of Streptococcus pneumoniae in children	Koliou MG , Andreou K, Lamnisis D, Lavranos G, Iakovides P, Economou C, Soteriades ES..	BMC Pediatr. 2018	Apr 26;18(1)	144

Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
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**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
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**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
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Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
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Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
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FORM NUM: 500.1.03

Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Kouis
Name:	Panayiotis
Rank/Position:	Visiting Lecturer
Faculty:	-
Department:	Medical School
Scientific Domain: *	Biology/Public Health

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD, Environmental Health	2017	Cyprus University of Technology	Cyprus International Institute for Environmental and Public Health	Development of Evidence Based Diagnostic Algorithm for Primary Ciliary Dyskinesia
MSc, Molecular Medicine	2015	Cyprus Institute of Neurology and Genetics	Cyprus School of Molecular Medicine	The effect of L-Arginine on human respiratory cilia beat frequency assessed via an automated High Speed Video Microscopy System
MSc, Environmental Health	2011	Cyprus University of Technology	Cyprus International Institute for Environmental and Public Health	Increased heat related mortality for the Cyprus population under several Climate Change Scenarios and the use of air

				conditioning as an appropriate control option
BSc, Biological Applications and Technologies	2010	University of Ioannina	Biological Applications and Technologies	A Single Early Life Generalized Seizure Reduces the Threshold to Pilocarpine-Induced Seizures in Adult Rats

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
03/04/2023	-	Medical School, University of Cyprus	Nicosia – Cyprus	Visiting Lecturer (Biology/Public Health)
01/09/2017	31/03/2023	Medical School, University of Cyprus	Nicosia – Cyprus	Special Scientist – Research, Special Scientist - Teaching
01/02/2013	31/08/2017	Cyprus International Institute for Environmental and Public Health	Limassol - Cyprus	Special Scientist – Research,

Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	The MEDEA randomized intervention study protocol for mitigation of desert dust health effects in adults with atrial fibrillation	Anagnostopoulou P, Kouis P , Papatheodorou SI, Middleton N, Papasavvas I, Avraamides P, Simantirakis E, Anastasiou Y, Novack V, Stamatelatos G, Revvas E, Kaniklides C, Tymvios F, Savvides C, Koutrakis P, Yiallourous PK	<i>BMJ Open</i>	13	e069809
2	2023	Nasal nitric oxide measurement in children for the diagnosis of primary ciliary dyskinesia: ERS technical standard	Beydon N, Kouis P , Marthin JK, Latzin P, Colas M, Davis SD, Haarman E, Harris AL, Hogg C, Kilbride E, Kuehni C, Marangu D, Nielsen KG, Pendergast C, Robinson P, Rumman N, Rutter M, Walker WT, Ferkol T, Lucas JS	European Respiratory Journal	61	2202031
3	2023	Use of consumer wearable devices for exposure and health monitoring in population studies: Practical challenges and cost-effective solutions	Michanikou A, Kouis P , Yiallourous PK	Journal of Visualized Experiments	192	e6327

4	2023	Responses of schoolchildren with asthma to recommendations to reduce desert dust exposure: Results from the LIFE-MEDEA intervention project using wearable technology	Kouis P , Michanikou A, Galanakis E, Michaelidou E, Dimitriou H, Perez J, Kinni P, Achilleos S, Revvas E, Stamatelatos G, Zacharatos H, Savvides C, Vasiliadou E, Kalivitis N, Chrysanthou A, Tymvios F, Papatheodorou SI, Koutrakis P, Yiallourous PK	Science of the Total Environment	860	160518
5	2022	Observational study of health utilities in adult Primary Ciliary Dyskinesia patients: associations with molecular diagnosis, clinical phenotype and HR-QoL measures	Kouis P , Kakkoura MG, Elia SA, Ioannou P, Anagnostopoulou P, Potamiti L, Loizidou MA, Panayiotidis MI, Kyriacou K, Hadjisavvas A, Yiallourous PK	Multidisciplinary Respiratory Medicine	17	103-110
6	2022	Prospective assessment of pediatric asthma morbidity in Cyprus and Greece during lockdown measures for the COVID-19 epidemic in Spring 2020	Kouis P , Michaelidou E, Kinni P, Michanikou A, Anagnostopoulou P, Dimitriou H, Karanickolas K, Matthaiou A, Achilleos S, Papatheodorou SI, Koutrakis P, Middleton N, Galanakis E, Yiallourous PK	Pediatric Pulmonology	57	386-394
7	2021	Heat-related mortality under climate change and the impact of adaptation through air conditioning: A case study from Thessaloniki, Greece	Kouis P , Psistaki K, Giallourous G, Michanikou A, Kakkoura MG, Stylianou KS, Papatheodorou SI, Paschalidou AK	Environmental Research	11	1285

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Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
1	August 2022	Pilot Program for Air Purification in Classrooms of Schools at Troodos Area	Local	Nicosia, Cyprus	Author, Researcher
2	May 2022	Διερεύνηση της αλληλεπίδρασης και της περιβαλλοντικής επιβάρυνσης με έμφαση στην ποιότητα του αέρα που παρατηρείται στην περιοχή των 5 βιομηχανικών ζωνών Λευκωσίας και των εφαπτόμενων σε αυτές οδικών τμημάτων	Local	Nicosia, Cyprus	Author, Environmental Health Expert
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*Specify venue, geographic location etc

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2022	Contextualizing and Adapting Referral/Clinical Practice Guidelines and Quality Indicators for the General Health System of Cyprus”	Cyprus Health Insurance Organization	Researcher
2	2022	Pilot application of indoor air cleaning devices at Troodos mountains classrooms as a COVID-19 transmission prevention method	Ministry of Education	Researcher
3	2022	CIROCCO “Enhancing In-situ Environmental Observations across Under sampled Deserts”	EU funded HORIZON	Researcher
4	2019	Biometeorological Aspect of Thermal environment and Health: impacts on public health and on special populations to improve the quality of life and tourism sustainability	Research Promotion Foundation	Researcher
5	2019	Motile ciliopathies: Understanding the molecular basis and introducing new technologies towards diagnosis and treatment	Research Promotion Foundation	Researcher
6	2017	Mitigating the health effects of desert dust storms using Exposure Reduction approaches	EU funded LIFE	Project Manager, Researcher

7	2013	Better Experimental Screening and Treatment for Primary Ciliary Dyskinesia	EU funded FP7	Researcher
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**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
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Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2023	Young Scientist Sponsorship	European Respiratory Society
2	2021	1st award for oral Presentation	Hellenic Society of Allergology and Clinical Immunology
3	2019	Best Clinical Research Abstract Award	COST Action BM1407 BEAT-PCD
4	2016	Short Term Scientific Mission	COST Action BM1407 BEAT-PCD
5	2015	Best Abstract in Paediatric Respiratory Epidemiology	European Respiratory Society
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Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
1	2023	International clinical practice guideline for the diagnosis of Primary Ciliary Dyskinesia funded by American Thoracic Society and European Respiratory Society.	Junior chair
2	2021	European Respiratory Society Task Force "Nasal nitric oxide measurement in children for the diagnosis of Primary Ciliary Dyskinesia: a technical standard"	Task Force member
3	2020	BEAT-PCD Clinical Research Collaboration	Work package leader and management committee member
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THE CYPRUS AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION



FORM NUM: 500.1.03

Academic Personnel Short Profile / Short CV

University:	CYPRUS UNIVERSITY OF TECHNOLOGY
Surname:	MIDDLETON
Name:	NICOS
Rank:	ASSOCIATE PROFESSOR
Faculty:	HEALTH SCIENCES
Department:	NURSING
Scientific Domain: *	HEALTH RESEARCH METHODOLOGY AND BIOSTATISTICS

* Field of Specialization

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title
PhD	2005	University of Bristol, Bristol, UK	Division of Epidemiology, School of Social and Community Medicine (<i>now Population Health Sciences</i>), Bristol Medical School	"An investigation into the spatial epidemiology of suicide mortality in England & Wales Vol I" και "Atlas of suicide mortality and its socio-economic determinants in England and Wales, Vol II"
MSc Health Care Decision Analysis	1998	London School Economics and Political Science (LSE) joint with London School of Hygiene and Tropical Medicine, London (LSHTM), UK	Department of Operational Research (LSE) and Department of Public Health and Policy (LSHTM)	"Investigation and modelling of waiting times for elective admission to hospital: A system dynamics modelling approach"
BSc Statistics and Operational Research	1997	University College London, London, UK	Department of Statistical Science	

Employment history – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
3/2009	Currently	Cyprus University of Technology, School of Health Sciences, Department of Nursing	Limassol, Cyprus	Associate Professor (11/2014) Assistant Professor (3/2009-11/2014)
11/2005	6/2008	Harvard School of Public Health & Cyprus International Institute for Environmental and Public Health in association with HSPH	Boston, USA and Nicosia, Cyprus	Research fellow and Visiting Instructor in Epidemiology
11/2003	10/2005	University of Bristol, School of Social and Community Medicine	Bristol, UK	Lecturer in Medical Statistics (3/2005-11/2005) and Research Associate/ Data Manager (11/2003-3/2005)

Key <u>refereed</u> journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	Developing and field testing the Neighbourhood Observational Tool for auditing urban community environments (CyNOTes) in the city of Limassol, Cyprus	Kleopa D, Panayiotou A, Kouta C, Middleton N	<i>Cities & Health</i>		1-16
2	2022	Identifying barriers to the educational role of midwives in Cyprus and defining determinants in behaviour terms using the Behaviour Change Wheel: a mixed-method formative study.	Middleton N , Hadjigeorgiou E, Kolokotroni O, Christodoulides V, Koliandri I, Nicolaou C, Papadopoulou M, Kouta C, Karanikola M, Baum A.	<i>BMC Health Services Research</i>	22(1)	1233
3	2022	Profiling the variability and inequity in the residential environment in Cyprus according to citizens' ratings: a cross-sectional internet-based "Place Standard" survey.	Kleopa D, Panayiotou A, Kouta C, Kaiafa C, Middleton N .	<i>BMC Public Health</i>	22(1)	267

4	2022	Health literacy and eHealth literacy and their association with other caring concepts among carers of people with dementia: A descriptive correlational study.	Efthymiou A, Middleton N , Charalambous A, Papastavrou E	<i>Health & Social Care in the Community.</i>	30(3)	1109-19
5	2021	The association of breastfeeding self-efficacy with breastfeeding duration and exclusivity: longitudinal assessment of the predictive validity of the Greek version of the BSES-SF tool	Economou M, Kolokotroni O, Paphiti-Demetriou I, Kouta C, Lambrinou E, Hadjigeorgiou E, Hadjiona V, Middleton N .	<i>BMC Pregnancy and Childbirth.</i>	21(1)	421
6	2021	Social gradient in health-related quality of life among urban middle-age residents in Limassol, Cyprus	Ellina P, Middleton N , Lambrinou E, Kouta C	<i>BMC Public Health</i>	21(1)	1-13
7	2019	Small-area socioeconomic deprivation indices in Cyprus: development and association with premature mortality.	Lamnisos D, Lambrianidou G, Middleton N .	BMC Public Health	19(1)	627
8	2018	Prevalence of breastfeeding and exclusive Breastfeeding at 48 hours after birth and up to the 6 th month in Cyprus: the BrEaST start in life project.	Economou M, Paphiti-Demetriou I, Kolokotroni O, Kouta C, Lambrinou E, Hadjigeorgiou E, Hadjiona V, Tryfonos F, Filippou E, Middleton N .	<i>Public Health Nutrition</i>	21(5)	967-980
9	2015	Association of vitamin D with adiposity measures and other determinants in a cross-sectional study of Cypriot adolescents.	Kolokotroni O, Papadopoulou A, Yiallourous D, Kouta C, Raftopoulos V, Lamnisos D, Nicolaidou P, Middleton N .	<i>Public Health Nutrition</i>	18(1)	112-121
10	2014	Prevalence of asthma and respiratory symptoms in 15–17 year-old Greek-Cypriots by proximity of their community of residence to power plants: Cyprus 2006–07.	Middleton N , Kolokotroni O, Lamnisos D, Koutrakis P, Yiallourous PK.	<i>Public Health</i>	128(3)	288-296
11	2010	Residential exposure to motor vehicle emissions and the risk of wheezing among 7-8 years-old schoolchildren in Nicosia, Cyprus: A city-wide cross-sectional study in Nicosia, Cyprus.	Middleton N , Yiallourous P, Nicolaou N, Kleanthous S, Pipis S, Zeniou M, Demokritou P, Koutrakis P.	<i>Environmental Health</i>	9(1)	28

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2023-2025	RESPECT: Toward a culture of Respectful Maternity Care (RMC): Enhancing Shared Decision Making and Informed Choice	EU (Horizon Europe). CERV-2022-DAPHNE-Citizens, Equality, Rights and Values (<i>project budget: € 425,000</i>)	Principle Investigator Host: CUT. Partners: Birth Forward (CY), RODA (HR), University of Genoa (IT), Mediterranean Institute of Gender Studies – MIGS (CY), Pancyprian Federation of Patient Associations – OSAK (CY)
2	2022-2024	BABY BUDDY Communicators: A socially interactive cross-sectoral communication skills-building training for competent antenatal educators who "make every contact count".	Erasmus + KA2: Small-scale partnerships in Adult Education (<i>project budget: € 60,000</i>)	Principle Investigator Host: CUT. Partners: Birth Forward (CY), Charité/ Humboldt-Universität zu Berlin (GE), Ghostthinker (GE)
3	2021-2023	e-CREDENTIAL: Educating, Creating awaRenEss and Empowering womeNwiTh famIliAl hypercholesterolemia	Erasmus + KA2: Small-scale partnerships in Adult Education (<i>project budget: € 60,000</i>)	Co-investigator. (PI: Dr Andrie Panayiotou). Host: CUT. Partners: Cyprus Atherosclerosis Society (CY), Hellenic Atherosclerosis Society (GR)
4	2021-2024	rECORD: The prevalence of rheumatic and musculoskeletal disorders and their impact on quality of life, physical function and mental health: a national survey in Cyprus.	Sponsorships from various civic partners via Cyprus Rheumatology Society and League against Rheumatic Diseases, including, Cyprus Ministry of Health (<i>project budget: €30,000</i>)	Principle Investigator. Host: CUT. Partners: Univeristy of Nicosia, Medical School (CY), Univeristy of Cyprus Medical School (CY), Cyprus Rheumatology Society (CY), Cyprus League Against Rheumatism.(CY)
5	2017-2020	Baby Buddy Forward: Building health literacy around pregnancy, birth and early life of the infant by developing a unified, research-informed and socially-inclusive prenatal and postnatal web-based education programme for parents-to-be and new parents	Erasmus + KA2: Adult Education (<i>project budget €346,912</i>)	Principle Investigator Host: CUT. Partners: Best Beginnings (UK), Birth Forward (CY), University of West Attica (GR), Cosmoanelixis (GR), Evangelical University Berlin (GE)

6	2017-2021	MEDEA: Mitigating the Health Effects of Desert Dust Storms Using Exposure-Reduction Approaches	EU Life+ (<i>project budget</i> €3,338,000. <i>CUT:</i> €558,519)	Partner Scientific Coordinator (CUT) Host: Medical School, University of Cyprus (PI: Dr P Yiallourous), Other partners: Air Quality Unit, Meteorological Services, Cyprus Broadcasting Corporation, University of Crete (GR), E.n.A Consultants (GR), Soroka Clinical Research Center (IL).
7	2013-2016	BrEaST start in life – addressing social inequalities and supporting breastfeeding through inclusion activities	EEA Grants – NGO Funds (<i>project budget</i> €113,000)	Scientific Coordinator. Project partner: Cyprus Breastfeeding Association – Gift for Life
8	2012-2015	BESTCILIA: Better experimental screening and treatment for primary ciliary dyskinesia	FP7 HEALTH (<i>project budget</i> €2,993,000, <i>CUT:</i> €261,000)	Research Team Member (CUT PI: Dr PK Yiallourous, <i>Project PI:</i> Heymut Omran, Dept Pediatrics, University Hospital Muenster, Germany. Partners: Westfälische Wilhelms-Universität Münster, Univ Bern, Univ North Carolina, Copenhagen University Hospital, Rigshospitalet, VU University Medical Center Amsterdam, Univ Southampton, Univ Miami, International Institute of Molecular and Cell Biology Warsaw, Univ Athens, European Research Services GmbH. <i>Project coordinator:</i> Heymut Omran, Dept Pediatrics, University Hospital Muenster, Germany
9	2010-2012	The relation of vitamin D status with asthma and atopy in adolescents in Cyprus	Cyprus Research Promotion Foundation (<i>project budget</i> €160,000)	Research Team Member and Doctoral thesis main advisor. Host: Cyprus International Institute (PI: Yiallourous PK). Partners: Univ Athens, Harvard School Public Health, Research & Educational Institute of Child Health, Cyprus MoH
10	2010-2013	GeoHealth: Development of capacity and infrastructure for the investigation of geographical health and socio-economic disparities across Cypriot communities	Start-up fund, Cyprus University of Technology (€80,000)	Project/ Scientific Coordinator

**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2022-currently	Cyprus Epidemiology and Public Health Association - CyEPHA	Vice-Chair, Interim Board,	
2	2022-currently	Working Group for the Development of Service-Users' Quality of Services Assessment and Satisfaction Questionnaire, Ministry of Health	Member of Working Group	
3	2022-currently	Working Group for the Human Resources Planning (Pillar 6), Capacity Master Plan, Ministry of Health	Member of Working Group	
4	2021-currently	Working Group for the assessment of maternity clinics according to the WHO Baby-Friendly Initiative, National Breastfeeding Committee, Ministry of Health	Member of Working Group	
5	2016-2020	Health Insurance Organization – General Healthcare System (GeSY)	Board of Directors Member – Government Representative	

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)			
Ref. Number	Date	Title	Awarded by:
1	2020	Baby Buddy Cyprus webapp platform: Gold in Category " <i>Prevention and Health</i> "	Cyprus Responsible Business Awards
2	2020	Baby Buddy Cyprus webapp platform: Bronze in category " <i>Contribution to Health by NGO</i> "	Cyprus Healthcare Business Awards
3	2021	Baby Buddy Cyprus webapp platform: Best Information Service (app, site, portal, etc)	Cyprus Mother and Baby Awards

Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Mitsides
Name:	Nicos
Rank/Position:	Visiting Lecturer
Faculty:	Medical School
Department:	Nephrology/ Genral Internal Medicine
Scientific Domain: *	Nephrology

** Field of Specialization*

**Academic qualifications
(list by highest qualification)**

Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	2019	The University of Manchester	School of Cardiovascular Sciences	Investigating steady state and dynamic fluid distribution in advanced chronic kidney disease and during ultrafiltration in haemodialysis
PGDip in Clinical Education (Distinction)	2018	Edge Hill University	School of Health Education	
Postgraduate Program	2013	The University of Manchester	Business School	



MBChB	2004	The University of Manchester	School of Medicine	
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Employment history in Academic Institutions/Research Centers – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2021	today	University of Cyprus	Nicosia, Cyprus	Visiting Lecturer
2019	2021	University Hospitals of Derby and Burton NHS Foundation Trust	Derby, UK	Consultant in Nephrology and General Internal Medicine
2018	2019	Salford Royal NHS Foundation Trust	Salford, Uk	Consultant in Nephrology

Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2020	Extracellular resistance is sensitive to tissue sodium status; implications for bioimpedance-derived fluid volume parameters in chronic kidney disease.	<i>Mitsides N</i> , McHugh D, Swiecicka A, Mitra R, Brenchley P, Parker GJM, Mitra S.	Journal of Nephrology	33(1)	119-127

2	2019	Salt and water retention associated with microinflammation and endothelial injury in chronic kidney disease.	Mitsides N , Fahad M, McHugh D, Shalamanova L, Wilkinson F, Alderdice J, Mitra R, Swiecicka A, Brechley P, Parker GJM, Alexander Y, Mitra S.	Nephron	143(4)	234-242
3	2019	Transcapillary Refilling Rate and Its Determinants during Haemodialysis with Standard and High Ultrafiltration Rates.	Mitsides N , Pietribiasi M, Waniewski J, Brechley P, Mitra S.	American Journal of Nephrology	50(2)	133-143
4	2018	Cardiovascular and Patient Phenotype of Extended Haemodialysis: A Critical Analysis of Studying a Unique Patient Population.	Mitsides N , Cornelis T, Broers NJH, Diederens NMP, Brechley P, van der Sande FM, Schalkwijk CG, Kooman JP, Mitra S.	Blood Purification	45 (4)	356-363
5	2017	Inflammatory and angiogenic factors linked to longitudinal microvascular changes in hemodialysis patients irrespective of treatment dose intensity.	Mitsides N , Cornelis T, Broers NJH, Diederens NMP, Brechley P, Heitink-ter Braak N, van der Sande FM, Schalkwijk CG, Kooman JP, Mitra S.	Kidney and Blood Pressure Research	42 (5)	905-918
6	2017	Extracellular overhydration linked with endothelial dysfunction in the context of inflammation in haemodialysis dependent chronic kidney disease.	Mitsides N , Cornelis T, Broers NJH, Diederens NMP, Brechley P, van der Sande FM, Schalkwijk CG, Kooman JP, Mitra S.	PLoS ONE	12 (8)	

7	2016	Clinical, patient-related and economic outcomes of home-based high dose hemodialysis versus conventional in-center hemodialysis.	Mitsides N , Mitra S, Cornelis T.	International Journal of Nephrology and Renovascular Disease	9	151-159
8	2016	Technical Aspects of Hemodialysis. In Magee CC, Tucker JK, and Singh AK's <i>Core Concepts in Dialysis and Continuous Therapies</i> .	Mitra S and Mitsides N .	In Magee CC, Tucker JK, and Singh AK's <i>Core Concepts in Dialysis and Continuous Therapies</i> . Springer.		
9	2015	Technology innovation for patients with kidney disease	Mitsides N , Keane DF, Lindley E, Mitra S.	Journal of Medical Engineering and Technology	39 (7)	424-433
10	2014	Complications and Outcomes of Trimethoprim-Sulphamethoxazole as Chemoprophylaxis for Pneumocystis Pneumonia in Renal Transplant Recipients.	Mitsides N , Greenan K, Green D, Middleton R, Lamerton E, Allen J, Redshaw J, Chadwick PR, Subudhi CPK, Wood G.	Nephrology	19 (3)	157-163

**Exhibitions (where applicable). List the five (5) more recent and other five (5) selected.
(max total 10)**

Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
1	04/2023		Local	Cyprus Renal Association Nephrology Conference, Limassol, Cyprus	Presenter
2		Chronic Kidney Disease- Mineral and Bone Disorder	Local		Presenter
3	06/2019	Extracellular electrical resistance is inversely associated to tissue sodium levels and serum osmolality and can potentially influence bioimpedance-derived hydration parameters in chronic kidney disease.	International	Renal Association/ British Renal Society UK Kidney Week, Brighton, United Kingdom	Presenter
4	06/2019	Absolute transcapillary plasma refilling rate and its variability during haemodialysis	International	Renal Association/ British Renal Society UK Kidney Week, Brighton, United Kingdom	Presenter
5	10/2017	Differential sodium ion distribution in muscle and skin and its relationship to hydration status in advanced chronic kidney disease.	International	American Society of Nephrology Kidney Week, New Orleans, USA	Presenter

6	10/2017	Performance evaluation and potential utility of urinary L-FABP as a point of care device in chronic kidney disease.	International	American Society of Nephrology Kidney Week, New Orleans, USA	Presenter
7	10/2017	Inflammatory and angiogenic factors associated with microvascular changes over a 6-month period in a cohort of haemodialysis patients.	International	American Society of Nephrology Kidney Week, New Orleans, USA	Presenter
8	06/2017	Performance evaluation of a urinary L-FABP point of care device and its potential utility in Chronic Kidney Disease.	International	Renal Association UK Kidney Week 2017, Liverpool, United Kingdom	Presenter
9	06/2017	Vascular and endothelial markers in extracellular overhydration in haemodialysis.	International	Renal Association UK Kidney Week 2017, Liverpool, United Kingdom	Presenter
10	06/2017	Tissue sodium distribution in relation to hydration status in advanced chronic kidney disease.	International	Renal Association UK Kidney Week 2017, Liverpool, United Kingdom	Presenter

**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2023-date	The study of the impact of healthcare and patient related factors on the transition of people with advanced chronic kidney disease onto renal replacement therapy in Cyprus [Transition to Renal Replacement Therapy in Cyprus (Transit RRT CY)].	Unfunded	Chief Instigator. Study design.
2	July 2016- March 2018	'An investigation of transcapillary plasma refill during ultrafiltration in haemodialysis' (PRUF)	Kidneys For Life Research Grand, NIHR Devices for Dignity Healthcare Cooperative	Investigator and study design, data analysis and first author of reporting
3	March 2016- March 2018	'A performance evaluation study of a point of care device for measurement of urinary L-FABP in the diagnosis and monitoring of kidney disease' (ELUDE).	CIMIC Holding (industry funded)	Investigator and study design.
4	Oct 2015- March 2018	The study of compartmental sodium distribution in patients with advanced CKD using a magnetic resonance imaging technique (SoDiUM).	Magnetic Resonance Imaging Facility Grant, Kidneys For Life Research Grand, NIHR Devices for Dignity Healthcare Cooperative	Investigator and study design, data analysis and first author of reporting

5	Sept 2014- March 2018	The study of uremic toxins, cardiovascular effects and physical activity in intensive hemodialysis (INTHEMO)	The Duch Research Foundation	Investigator and study design, data analysis and first author of reporting
6	Jan 2011- 2012	Observational study of an outbreak of Pneumocystis Pneumonia in the renal population at the Salford Royal Hospital and the outcomes of the use of antibiotic chemoprophylaxis for Pneumocystis Pneumonia in the stable transplant population	Unfunded	Investigator and study design and first author of reporting
7	Nov 2009- 2010	Incidence of line thrombosis and bacteraemia in haemodialysis patients using permanent venous catheters locked with Taurolock Hep 500; results were compared with catheters locked with Heparin or Taurolock.	Unfunded	Investigator and study design.
8	June –Aug 2003	Cardiovascular risk in renal disease: PAPP-A as a potential cardiac marker in pre-dialysis patients	Unfunded	Investigator
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**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
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Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	Dec 2018	PGDip in Clinical Education (Distinction)	Edge Hill University
2	Oct 2016	European Renal Association/European Dialysis and Transplantation Association CME Travel Grant.	European Renal Association/European Dialysis and Transplantation Association
3	June 2002	Honours in Special Study Module in Anesthesia	The University of Manchester
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Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
1	Jan2023-date	Member of the Bioethics Review Committee B for human clinical trials of pharmacological investigational products, Cyprus National Bioethics Committee	Assessment of the ethical issues surrounding research studies and contributing to deliver the committee's opinion
2	Dec 2022- Date	Vice-chair of the executive committee of the Cyprus Association of Friends of Patients with Kidney Disease (Charity)	Orchestrating and implementing the Charity's activity strategy, representing the organisation in public engagement event. Representing the patients' need and influencing policy change
3	Sept 2021-Date:	Member of the guidelines committee of the Cyprus Renal Association.	Expert member on the committee working on guideline adoption/development in Nephrology
4	Aug 2021-Date:	Postgraduate Specialty Training Program Coordinator for Nephrology in the District of Nicosia	Responsible for the postgraduate training of speciality trainees in Nephrology at Nicosia General Hospital.
5	Dec 2022	Development of Hospital policy for the insertion of dual lumen central venous catheters for haemodialysis or plasma apheresis/ immunoadsorption treatments	Leading a Quality Improvement project
6	Oct 2022- April 2023	Member of the Scientific Program Committee of the 1 st Cyprus Renal Association Nephrology Conference	Scientific Program design. Invitation of international speaker. Running the scientific program at the time of the conference.
7	Jan 2023-Date	Special Topic Editor, Frontiers in Nephrology: <i>Current and Emerging Concepts in the Pathophysiology and Management of Volume and</i>	Designing and editing a special collection

		<i>Sodium Homeostasis in Patients with Chronic Kidney Disease: The Impact on Blood Purification</i>	
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ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
THE CYPRUS AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION



FORM NUM: 500.1.03

Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Nikolopoulos
Name:	Georgios
Rank:	Associate Professor
Faculty:	
Department:	Medical School
Scientific Domain: *	Epidemiology / Public Health

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title
Dentistry degree (5 years)	1998	National and Kapodistrian University of Athens, Athens, Greece	Dental School	
MSc – Biostatistics (2 years)	2002	National and Kapodistrian University of Athens, Athens, Greece	Medical School	
PhD - Epidemiology	2008	National and Kapodistrian University of Athens, Athens, Greece	Medical School	HIV and HBV coinfection in the Greek population (associated paper here: https://pubmed.ncbi.nlm.nih.gov/19435436/ and accompanying editorial here: https://pubmed.ncbi.nlm.nih.gov/19435435/
Certified in Public Health (CPH)	2017	United States (US) National Board of Public Health Examiners (NBPHE): number 14106 https://cph.nbphe.org/cph_search		

Employment history – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2002	2016	Greek Centre for Disease Control and Prevention	Athens, Greece	Epidemiologist / Public Health expert
2012	2014	National Development and Research Institutes	New York, US and Athens, Greece	Post-doctoral researcher supported by the US National Institute on Drug Abuse (NIDA) and the International AIDS Society (IAS) following international competition: https://nida.nih.gov/international/fellowships-postdoctoral-training (an associated paper here: https://pubmed.ncbi.nlm.nih.gov/25723309/)
2016	2022	University of Cyprus	Nicosia, Cyprus	Assistant Professor
2022	today	University of Cyprus	Nicosia, Cyprus	Associate Professor

Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	A novel artificial neural network methodology to produce high-resolution bioclimatic maps using Earth Observation data: A case study for Cyprus.	Philippopoulos K, Pantavou K, Cartalis C, Agathangelidis I, Mavrakou T, Polydoros A, Nikolopoulos G	Sci Total Environ		
2	2023	Methods for Assessing Spillover in Network-Based Studies of HIV/AIDS Prevention among People Who Use Drugs.	Buchanan AL, Katenka N, Lee Y, Wu J, Pantavou K, Friedman SR, Halloran ME, Marshall BDL, Forastiere L, Nikolopoulos GK	Pathogens	12	
3	2023	Finding influential subjects in a network using a causal framework.	Lee Y, Buchanan AL, Ogburn EL, Friedman SR, Halloran ME, Katenka NV, Wu J, Nikolopoulos GK	Biometrics		
4	2022	Effect of vaccination on SARS-CoV-2 reinfection risk: a case-control study in the Republic of Cyprus.	Quattrocchi A, Tsioutis C, Demetriou A, Kyprianou T, Athanasiadou M, Silvestros V, Mamais I, Demetriou CA, Theophanous F, Soteriou S, Gregoriadou C, Anastasiou E, Kolios P, Haralambous C, Gregorioul, Kalakouta O, Nikolopoulos G	Public Health	204	84-86

5	2021	Effect of early application of social distancing interventions on COVID-19 mortality over the first pandemic wave: An analysis of longitudinal data from 37 countries.	Piovani D, Christodoulou MN, Hadjidemetriou A, Pantavou K, Zaza P, Bagos PG, Bonovas S, Nikolopoulos GK	J Infect.	82	133-142
6	2019	Short Term Success of Treatments to Salvage Thrombosed or Failing Synthetic Arteriovenous Grafts in End Stage Renal Disease: A Systematic Review and Network Meta-Analysis of Randomised Controlled Trials.	Nikolopoulos GK , Yiallourou AI, Argyriou C, Bonovas S, Georgiadis GS, Lazarides MK	Eur J Vasc Endovasc Surg	58	921-928
7	2019	Efficacy and safety of biologic agents and tofacitinib in moderate-to-severe ulcerative colitis: A systematic overview of meta-analyses.	Pantavou K, Yiallourou AI, Piovani D, Evripidou D, Danese S, Peyrin-Biroulet L, Bonovas S, Nikolopoulos GK	United European Gastroenterol J	7	1285-1303
8	2019	Identifying, linking, and treating people who inject drugs and were recently infected with HIV in the context of a network-based intervention.	Psichogiou M, Giallourou G, Pantavou K, Pavlitina E, Papadopoulou M, Williams LD, Hadjiko A, Kakalou E, Skoutelis A, Protopapas K, Antoniadou A, Boulmetis G, Paraskevis D, Hatzakis A, Friedman SR, Nikolopoulos GK	AIDS Care	31	1376-1383

9	2017	Evaluation of the limiting antigen avidity EIA (LA_g) in people who inject drugs in Greece.	Nikolopoulos GK , Katsoulidou A, Kantzanou M, Rokka C, Tsiara C, Sypsa V, Paraskevis D, Psychogiou M, Friedman S, Hatzakis A	Epidemiol Infect.	145	401-412
10	2016	HBV-DNA levels predict overall mortality in HIV/HBV coinfectd individuals.	Nikolopoulos GK , Paraskevis D, Psychogiou M, Hatzakis A	J Med Virol	88	466-473

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2022-2023	Causal Inference methods for HIV prevention studies among networks of people who use drugs	National Institutes of Health (NIH) - US (subaward by the University of Rhode Island)	Principal Investigator
2	2021-2022	Estimating Hepatitis C burden in EU/EEA	European Centre for Disease Prevention and Control	Principal Investigator
3	2021-2022	PULSE (Panyprrian sUrveilLance of SARS-CoV-2 in urban wastewater)	Water Development Department (Cyprus)	Co-principal investigator
4	2021-2023	Cost-effectiveness of PrEP (Pre-Exposure Prophylaxis) administration to Men who have Sex with Men in Greece and Cyprus	ASKLEPIOS 2020, GILEAD SCIENCES HELLAS (Greece)	Principal Investigator
5	2019-2021	Genetic polymorphisms and HIV transmission in social networks of people who inject drugs	ASKLEPIOS 2018, GILEAD SCIENCES HELLAS (Greece)	Principal Investigator
6	2019-2020	Monitoring, Evaluating, and Reviewing of Health Services, Patient Satisfaction and Employee Engagement in the National Health System of Cyprus	State Organization for Health Care Services (Cyprus)	Principal Investigator
7	2019-2022	Biometeorological Aspect of Thermal environment and Health (BeAT Heat): impacts on public health and on special populations to improve the quality of life and tourism sustainability	Research Promotion Foundation (Cyprus)	Principal Investigator

8	2012-2018	Preventing HIV Transmission by Recently-Infected Drug Users (TRIP)	US NIDA	Site Principal Investigator, Athens, Greece and Nicosia Cyprus
9	2013	Analysing the effects of the current economic downturn on HIV among injecting drug users in the EU/EEA	European Centre for Disease Prevention and Control	Co-principal investigator
10	2012-2013	ARISTOTLE	National Strategic Reference Framework (NSRF) 2007-2013; co-funded by the European Social Fund and national resources (Greece)	Co-investigator

Academic Consulting Services and/or Participation in Councils / Boards / Editorial Committees. List the five (5) more recent (Optional Entry)			
Period	Organization	Title of Position or Service	Key Activities
2022 - today	Health Insurance Organization of Cyprus and the United Kingdom National Institute for Health and Care Excellence (NICE)	Head of the Secreteriat	Contextualization of clinical guidelines in Cyprus
2022 - today	Cyprus Epidemiology and Public Health Association	President and founding member	Drafting strategical plans, organizing scientific events, chairing council sessions
2020 - 2023	National COVID-19 Committee - Cyprus	Member	Advising the Minister of Health in Cyprus on issues related to the COVID-19 pandemic
2018 - 2020	National HCV Committee - Cyprus	Member	Advising on the development of the first national plan for the public health management of hepatitis C in Cyprus
2019 - today	Springer	Chief editor for the Euro-Mediterranean Journal for Environmental Integration topic: Environmental-change-related impacts on human, animal, and ecosystem health	Editorial work

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2023	Significant contribution to the management of the COVID-19 pandemic in the Republic of Cyprus	The President of the Republic of Cyprus
2	2022	Abstract presentation (title in Greek; available upon request)	15 th Greek-Cyprus Surgery Conference (Cyprus)
3	2022	Abstract presentation (title in Greek; available upon request)	10 th Meeting for HIV, Hepatitis, and Emerging Diseases (Greece)
4	2021	Abstract presentation (title in Greek; available upon request)	33 rd AIDS Conference (Greece)
5	2021	Abstract presentation (title in Greek; available upon request)	9 th Meeting for HIV, Hepatitis, and Emerging Diseases (Greece)
6	2020	Abstract presentation (title in Greek; available upon request)	8 th Meeting for HIV, Hepatitis, and Emerging Diseases (Greece)
7	2019	Abstract presentation (title in Greek; available upon request)	13 th Conference on Allergies and Clinical Immunology (Greece)
8	2019	Invited talk: "Climate change and infectious diseases in the Mediterranean region: evidence and challenges"	Outstanding keynote lecture - 2nd Euro-Mediterranean Conference for Environmental Integration, Sousse, Tunisia 2019
9	2019	Abstract presentation: "An integrated framework of environmental physics and epidemiology: the Biometeorological Aspect of Thermal environment and Health project (BeAT Heat)"	Award as best paper for Track 13. Environmental-change-related impacts on human health - 2nd Euro-Mediterranean Conference for Environmental Integration, Sousse, Tunisia 2019
10	2012	Post-doctoral fellowship: "Developing measures to study how macro-level economic and social changes may have affected HIV risk in the population of injecting drug users in Greece"	US NIDA and IAS

Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
1	2023	Nominated for the best teaching award 2024 – decision expected in November 2023	
2	2023	Elected Member of the Ethics Committee of the European Academy of Allergy and Clinical Immunology – EAACI (non-EAACI member)	Participation in the regular activities of the Ethics Committee of EAACI
3	2021 - today	Regular Member of the College on Problems of Drug Dependence - CPDD (US) - qualified based on criteria regarding research and scientific work in the field of drug dependence (https://cpdd.org/membership/how-to-become-a-member/)	Participation in the regular activities of CPDD
4	2018 - today	Fellow of the American College of Epidemiology – ACE (US) - promoted from the member status following evaluation by an admission committee and based on significant contribution to the profession of epidemiology including research and/or leadership roles (Distinction: FACE) (https://www.acepidemiology.org/admission-guidelines)	Participation in the regular activities of ACE
5	2018 - 2021	Director of Phase 1 (Year 1) of the Undergraduate Studies in Medicine (Medical School – University of Cyprus)	Yearly timetable design, management of and collaboration with course instructors, bi-annual progress reports

FORM NUM: 500.1.03

Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Pantavou
Name:	Aikaterini
Rank/Position:	Special Research Scientist
Faculty:	Medical School
Department:	Medical School
Scientific Domain: *	Epidemiology

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	2014	National and Kapodistrian University of Athens	Department of Physics	
MSc	2006	National and Kapodistrian University of Athens	Department of Physics	
BS	2004	National and Kapodistrian University of Athens	Department of Physics	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
May 2023	Today	University of Cyprus	Nicosia	Special Research Scientist
May 2022	April 2023	University of Cyprus	Nicosia	Special Research Scientist
Feb 2019	Jan 2022	University of Cyprus	Nicosia	Special Research Scientist

6	2021	Thermal Conditions and Hospital Admissions: Analysis of Longitudinal Data from Cyprus (2009–2018)	Pantavou K, Giallourous G, Philippopoulos K, Piovani D, Cartalis C, Bonovas S, Nikolopoulos GK	International Journal of Environmental Research and Public Health	18	13361
7	2021	Effect of early application of social distancing interventions on COVID-19 mortality over the first pandemic wave: An analysis of longitudinal data from 37 countries	Piovani D, Christodoulou MN, Hadjimetriou A, Pantavou K, Zaza P, Bagos PG, Bonovas S, Nikolopoulos GK	Journal of Infection	82	133-142
8	2020	Season of birth and multiple sclerosis: a systematic review and multivariate meta-analysis	Pantavou KG, Bagos PG	Journal of Neurology	29	280-283
9	2019	Efficacy and safety of biologic agents and tofacitinib in moderate-to-severe ulcerative colitis: A systematic overview of meta-analyses	Pantavou K, Yiallourou A, Piovani D, Evripidou D, Danese S, Peyrin-Biroulet L, Bonovas S, Nikolopoulos GN	United European Gastroenterology Journal	7	1285-1303
10	2019	Mortality attributable to seasonal influenza in Greece, 2013 to 2017: variation by type/subtype and age, and a possible harvesting effect	Lytras T, Pantavou K, Mouratidou E, Tsiodras S	Eurosurveillance	24	1800118

Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
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**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	May 2023- April 2014	SInnoPSis	Horizon 2020 under grant agreement ID: 857636	Special Research Scientist
2	May 2022 – April 2023	Causal Inference Methods for HIV Prevention Studies among Networks of People Who Use Drugs	Avenir Award Program for Research on Substance Abuse and HIV/AIDS (DP2) from National Institute on Drug Abuse of the National Institutes of Health Award Number DP2DA046856.	Special Research Scientist
3	Feb 2019- Jan 2022	Biometeorological Aspect of Thermal Environment and Health: impacts on public health and on special populations to improve the quality of life and tourism sustainability (BeAT Heat)	European Regional Development Fund and the Republic of Cyprus through the Research and Innovation Foundation (Project: EXCELLENCE/1216/000	Special Research Scientist (Project Manager and Work package leader)
4	2017-2018	Meta-analysis of genetic and environmental epidemiology studies	Co-financed by the European Union	Postdoctoral fellow

			(European Social Fund—ESF) and Greek national funds through the action entitled “Reinforcement of Postdoctoral Researchers”, in the framework of the Operational Programme “Human Resources Development Program, Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) 2014–2020.	
5	2017-2018	Preventing HIV Transmission by recently-infected Drug users	United States (US) National Institute on Drug Abuse (NIDA) (DP1 DA034989)	Postdoctoral fellow

**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2017-today	International Journal of Biometeorology	Member of the scientific committee	Contributing to the decision making process of potential participants
2	2022-2023	Euro-Mediterranean Journal for Environmental Integration	Guest editor	Contributing to the decision making process of potential participants
3	2022-2023	Atmosphere	Guest editor	Contributing to the decision making process of potential participants
4	2021	3rd Euro-Mediterranean Conference for Environmental Integration, Sousse, Tunisia	Member of the scientific committee	Contributing to the decision making process of potential participants
5	2019	2nd Euro-Mediterranean Conference for Environmental Integration, Sousse, Tunisia	Member of the scientific committee	Contributing to the decision making process of potential participants

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2019	Best Article Award for the work entitled "An integrated framework of environmental physics and epidemiology: the Biometeorological Aspect of Thermal environment and Health project (BeAT Heat)"	2nd Euro-Mediterranean Conference for Environmental Integration, Sousse, Tunisia 2019.
2	2019	Award for the announcement entitled "Testing and validation of ENVI-met simulation based on in-situ micrometeorological measurements: the case of Syntagma Square, Athens, Greece"	16th International Conference on Environmental Science and Technology, Rhodes 2019
3	2019	Article selected as a front page in Volume of a Scientific Journal	United European Gastroenterology Journal
4	2018	2 nd Award for the announcement entitled "'Δείκτες ψυχικής υγείας και πρόσβαση στη φροντίδα υγείας των συμμετεχόντων στο πρόγραμμα TRIP" (in Greek)	6η Πανελλήνια Συνάντηση AIDS & Ηπατίτιδες, Αθήνα 2018
5	2017	Meta-analysis of genetic and environmental epidemiology studies	Scholarship from the Hellenic Foundation for State Scholarships

Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
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Constantinos S. Pattichis is Professor with the Dep. of Computer Science and Director of the Biomedical Engineering Research Centre at the University of Cyprus and Leader of HealthXR Smart, Ubiquitous, and Participatory Technologies for Healthcare Innovation in the CYENS Centre of Excellence. He was born in Cyprus on Jan 30, 1959, and received his diploma as technician engineer from the Higher Technical Institute in Cyprus in 1979, the BSc in Electrical Engineering from the University of New Brunswick, Canada, in 1983, the MSc in Biomedical Engineering from the University of Texas at Austin, USA, in 1984, the MSc in Neurology from the University of Newcastle Upon Tyne, UK, in 1991, and the PhD in Electronic Engineering from the University of London, UK, in 1992. He has 30 years of experience in eHealth and connected health, medical imaging, biosignal analysis, intelligent systems and explainable AI, and more recently in mHealth interventions based on X Reality applications. He has been involved in numerous projects in these areas funded by EU and other bodies, with a total funding managed in excess of 17 million euros. He is the Technical Leader of the EU project funded under the Emergency Support Instrument Action for Cyprus to implement the EU Digital Covid Certificate Platform for the issuance of the corresponding certificates for vaccination, recovery and laboratory testing (eudcc.gov.cy which has been used by more than 1 million users). He was Co-Principal Investigator of the EU H2020-WIDESPREAD-04-2017-Teaming Phase 1 project “Integrated Precision Medicine Technologies Research Centre of Excellence (IPMT)”. He is also leading the “Deployment of Generic Cross Border eHealth Services in Cyprus”, an EU Innovation and Networks Executive Agency (INEA), Connecting Europe Facility (CEF), funded project where 23- member states participate. More recently, he was awarded as Co-PI the development and implementation of a highly competitive national integrated project entitled “Integrated National eHealth Ecosystem (eHealth4U)”, that targets to develop the national eHealth infrastructure based on strict adherence to interoperability protocols for the offering of advanced big-data eHealth services. He has published 139 journal publications, 245 conference papers, and 30 chapters in books in these areas (no. of citations more than 11500, h-score 52). He is Co-Editor of the *Handbook of Speckle Filtering and Tracking in Cardiovascular Ultrasound Imaging and Video*, published by IET, UK, 2018 and of the edited volumes *M-Health: Emerging Mobile Health Systems* (considered to be the first published book on mHealth), and *Ultrasound and Carotid Bifurcation Atherosclerosis*, published in 2006 and 2012 by Springer. He is Guest Co-Editor of the Special Issues of the Frontiers Digital Health on *Connected Health* and of the IEEE Journal of Biomedical and Health Informatics (J-BHI) on *Special Issue on Large Scale Video Analytics for Clinical Decision Support* (2023), *Integrated Precision Medicine Informatics* (2019) and on *Computational Solutions to Large-Scale Data Management and Analysis in Translational and Personalized Medicine* (2014). He was also Guest Co-Editor of the Special Issues of the IEEE Trans. on Information Technology in Biomedicine on *Emerging Technologies in Biomedicine* (2009), *Computational Intelligence in Medical Systems* (2009), *Citizen Centered eHealth Systems in a Global Health-care Environment* (2011), and *Atherosclerotic Cardiovascular Health Informatics* (2012). Moreover, he served as Distinguished Lecturer (2013- 2014), and currently serves as member of the Technical Committee on Biomedical and Health Informatics of the IEEE EMBS, an Associate Editor and Member of the Steering Committee of the IEEE J-BHI and Specialty Section Editor of Connected Health of Frontiers Digital Health. He is/was General Co-Chair of IEEE International Conference on Biomedical and Health Informatics BHI2022, BHI2021 and CAIP 2021, Program Co-chair of the IEEE BHI2019 and BHI2018, IEEE Computer- Based Medical Systems (CBMS2017), General Co-chair of the IEEE 4th Middle East Conference on Biomedical Engineering (MECBME 2018), IEEE International Conferences on Information Technology Applications in Biomedicine (ITAB 2009), Bioinformatics and Bioengineering (BIBE 2012), and 13th Medical and Biological Engineering and Computing (Medicon 2016). He is a **Fellow of IEEE**, IET, International Academy of Medical and Biomedical Engineering (IAMBE) and European Alliance for Medical & Biological Engineering & Science (EAMBES).

Website:	http://www.ehealthlab.cs.ucy.ac.cy/
Google Scholar:	https://scholar.google.com/citations?user=XPzbiZUAAAAJ&hl=en
ResearchGate:	https://www.researchgate.net/profile/C._Pattichis
ORCID ID:	0000-0003-1271-8151

A. Research Interests

- eHealth, mHealth, eEmergency Systems, Connected Health
- mHealth interventions based on X Reality applications
- **Medical Image Analysis** Systems: MRI, Ultrasound, Endoscopy, Microscopy
- Computational Intelligence and **Explainable AI in Medical Systems**
- **Biosignal Analysis** Systems: Eelectromyography

B. Education

- *Doctor of Philosophy in Electronic Engineering*
University of London, Queen Mary and Westfield College, UK, March 1992
- *Master of Science in Neurology*, Faculty of Medicine
University of Newcastle Upon Tyne, UK, May 1991
- *Master of Science in Biomedical Engineering*
University of Texas at Austin, USA, December 1984
- *Bachelor of Science in Electrical Engineering*
University of New Brunswick, Canada, May 1983
- Diploma of Technician Engineer in Electrical Engineering*
Higher Technical Institute (HTI), Cyprus, July 1979

C. Professional Experience

- 8/1992-7/1993 *Post-Doctoral Fellow*, Dept. of Computer Science, University of Cyprus
8/1993-7/1996 *Lecturer*, Dept. of Computer Science, University of Cyprus
9/1996-5/2001 *Assistant Professor*, Dept. of Computer Science, University of Cyprus
9/2000-12/2001 *Visiting Assis. Prof.*, Dept. of Electrical and Computer Eng., Un. of New Mexico
6/2001-10/2007 *Associate Professor*, Dept. of Computer Science, University of Cyprus
11/2006-4/2008 *Vice-Chairperson*, Department of Computer Science, University of Cyprus
11/2007- *Professor*, Dept. of Computer Science, University of Cyprus
5/2008-5/2011 *Dean*, School of Pure and Applied Sciences, University of Cyprus

D. Selected Professional Activities

- **Fellow of IEEE, January 2018.**
- *Fellow of the International Academy of Medical and Biomedical Engineering (IAMBE)*, January 2018.
- *Fellow of European Alliance for Medical & Biological Engineering & Science (EAMBES)*, Jan. 2018.
- *Fellow of the Institute Engineering Technology (FIET)*, UK, February 2011.
- IEEE EMBS Distinguished Lecturer (2013-2014).
- IEEE EMBS Technical Committee on Information Technology for Health (2011-).
- Associate Editor, IEEE Trans. on Information Technology in Biomedicine, 2000-present.
- Associate Editor, IEEE Trans. on Neural Networks, 2005-2007.
- Guest Co-Editor, IEEE Journal of Biomedical and Health Informatics, Special Issue on:
 - *Large Scale Video Analytics for Clinical Decision Support*, Feb. 2023.
 - *Integrating Informatics and Technology for Precision Medicine*, Dec., 2018.
 - *Large-scale Data Analysis in Translational and Personalized Medicine*, May 2014.
- Guest Co-Editor, IEEE Trans. on Information Technology in Biomedicine, Special Issues on:
 - *Citizen Centered e-Health Systems in a Global Health-care Environment*, January 2011.
 - *Computational Intelligence in Medical Systems*, September 2009.
- Guest Co-Editor, Healthcare Technology Letters, Special Issue on *mHealth – Emerging Mobile Health Systems and Services*, September 2016.
- General Co-Chair, BHI 2022 & BHI2021: IEEE Biomedical and Health Informatics 2022 & 2021, Ioannina, Greece, Sept. 27-30, 2022 & Athens, Greece, July 27-31, 2021.
- General Co-Chair, CAIP 2021: Computer Analysis Images Patterns, Cyprus, Sept. 29-30, 2021.
- General Co-Chair, MECBME 2018: IEEE 4th Middle East Conference on Biomedical Engineering, Gammarth – Tunis, Tunisia, 28-30 March 2018.
- General Co-Chair, MEDICON 2016: XIV Mediterranean Conference on Medical and Biological Engineering and Computing, Cyprus, March 31st-April 2nd, 2016.
- General Co-Chair, MELECON'2016: IEEE Region 18th Mediterranean Electrotechnical Conference, Limassol, April 18-20, 2016.
- Program Co-Chair, BHI2019: IEEE Biomed. and Health Informatics, Chicago, 20-23 May, 2019.
- Program Co-Chair, BHI2018: IEEE Biomed. and Health Informatics, Las Vegas, 4-7 Mar., 2018.
- Program Co-Chair, ISCCSP'20010: 4th International Symposium on Communications, Control and Signal Processing, Cyprus, March 2010. Technically Co-sponsored by the SP and CAS societies.

E. Honours/Awards

- 1987-1988 *Rotary International Scholarship*, University of Newcastle Upon Tyne, UK
1994 *Marie Curie Fellowship*, Commission of the European Communities, EU
1999 *Student's Best Paper Presentation*, IJCNN'99, co-authored PhD student C. Christodoulou

- 2006 *Best Paper Award*, 3rd IFIP Conference on Artificial Intelligence Applications and Innovations (AIAI), Athens, Greece, 7-9 June, 2006 (co-author)
- 2022 *Best Paper Award*, 30th ACM Conference on User Modeling, Adaptation and Personalization, (co-author).

F. Selected Research Projects *Total amount of research funds managed: 17,129,417 Euro*

1. **Pilots for European Digital Identity Wallet (POTENTIAL)**, Co-Investigator
Digital Europe Programme (DIGITAL) Call: DIGITAL-2022-DEPLOY-02, Project: 101102655 — POTENTIAL, Apr. 2023 – Mar. 2025, (UCY 187,250 Euro)
2. **EU DIGITAL COVID CERTIFICATE CY PLATFORM (EU DCC CY), Technical Leader**
EU Directorate-General for Communications Networks, Content and Technology, Data, Administration and Finance, under the EMERGENCY SUPPORT INSTRUMENT ACTION, CYPRUS - AGREEMENT NUMBER: LC-01689772
April. 2021 – October. 2021, Funding 1,427,072 Euro (UCY 216,400 Euro)
3. **Integrated National eHealth Ecosystem (eHealth4U), PI**
Research Promotion Foundation, Cyprus, Restart 2016-2020 – Integrated Projects
Oct. 2018 – Apr. 2021, Funding: 1,000,000 Euro
4. **Research centre on Interactive media, Smart systems and Emerging technologies (RISE)**
Co-Investigator (Co-Leader MRG 7 Smart, Ubiquitous, and Participatory Technologies for Healthcare Innovation), EU H2020-WIDESPREAD-01-2016-2017-Teaming Phase 2
Nov. 2017–Oct. 2024, Funding: 14,999,790 Euro (UCY 463,271 Euro; 50,000Euro MRG7)
5. **Integrated Precision Medicine Technologies Research Centre of Excellence (IPMT), PI**
EU H2020-WIDESPREAD-04-2017-Teaming Phase 1
Sept. 2017 – Aug. 2018, Funding: 399,999 Euro (UCY 140,287 Euro)
6. **Deployment of Generic Cross Border eHealth Services in Cyprus, PI**
EU Innovation and Networks Executive Agency (INEA), Department C - Connecting Europe Facility (CEF), Unit C4 Energy & ICT [2015-CY-IA-0095], Jan. 2017 – Dec. 2020, Funding: 593,356 Euro (UCY 445,017 Euro)
7. **A Next-Generation, Secure Linked Data Medical Information Space for Semantically-Interconnecting Electronic Health Records and Clinical Trials Systems Advancing Patients Safety in Clinical Research (Linked2Safety) - Co-Investigator**
FP7-ICT-2011-7, Oct. 2011-Sept. 2014, Funding: 560,600 Euro

G. Selected Publications *(no. of citations more than 11500, h-score 52)*

Editorial of volumes, and publishing of monographs

1. *M-Health: Emerging Mobile Health Systems*, Ed. by R.H. Istepanian, S. Laxminarayan, C.S. Pattichis, Springer Science, NY, USA, 2006.
2. *Ultrasound and Carotid Bifurcation Atherosclerosis*, Ed. by A. Nicolaides, K.W. Beach, E. Kyriakou, and C.S. Pattichis, Springer, London, UK, 2012.
3. *Despeckle Filtering Algorithms and Software for Ultrasound Imaging and Video, Volume I: Algorithms and Software*, 2nd Edition, C.P. Loizou, and C.S. Pattichis, Morgan & Claypool Publishers, CA, USA, 2015 &
Despeckle Filtering Algorithms and Software for Ultrasound Imaging and Video, Volume II: Selected Applications, 2nd Edition, C.P. Loizou, and C.S. Pattichis, Morgan & Claypool Publishers, CA, USA, 2015.
4. *Handbook of Speckle Filtering and Tracking in Cardiovascular Ultrasound Imaging and Video*, Ed. by C.P. Loizou, C.S. Pattichis and J. D'hooge, The Institution of Engineering and Technology (IET), Stevenage, UK, 2018. 704 pages.
5. *Connected Health: Status and Trends*, Ed. by Constantinos S. Pattichis, Andreas S. Panayides and Chris Nugent, Frontiers Digital Health, 12 papers, 140 pages, 2021. E-book available at: <https://www.frontiersin.org/research-topics/11683/connected-health-status-and-trends>.

Journal Publications (from a list of 139)

6. C.I. Christodoulou, C.S. Pattichis, M. Pantziaris, A. Nicolaides, *Computer Aided Classification of Carotid Plaques Using Neural Networks and Multi-Feature Texture Analysis*, **IEEE Transactions on Medical Imaging**, Vol. 22, No. 7, pp. 902-912, 2003.
7. C. Loizou, C.S. Pattichis, C. Christodoulou, M. Pantzaris, A. Nicolaides, *Comparative Evaluation of Despeckle Filtering in Ultrasound Imaging of the Carotid Artery*, **IEEE Trans. on Ultrasonics, Ferroelectrics, and Frequency Control**, Vol. 52, No. 10, pp. 1653-1669, 2005.
8. N. Tsapatsoulis, K. Rapantzikos, C. Pattichis, *An Embedded Saliency Map Estimator Application to Video Encoding*, **Int. J. of Neural Systems**, Vol. 17, No. 4, pp. 289-304, 2007.

10. M. Karaolis, J. A. Moutiris, D. Hadjipanayi, and C.S. Pattichis, *Assessment of the Risk Factors of Coronary Heart Events Based on Data Mining with Decision Trees*, **IEEE Trans. on Information Technology in Biomedicine**, Vol. 14, No. 3, pp. 559-566, May 2010.
11. E. Kyriacou, C. Pattichis, C. Christodoulou, C. Loizou, M. Pattichis, S. Kakkos, A. Nikolaides, A. Review of Ultrasound Imaging of the Carotid Artery for the Assessment of the Risk of Stroke, **IEEE Trans. on Inf. Technology in Biomedicine**, Vol. 14, No. 4, pp. 1027-1038, 2010.
12. C. Loizou, V. Murray, M. Pattichis, M. Pantzaris, C. Pattichis, *Multiscale Amplitude-Modulation Frequency-Modulation (AM-FM) Texture Analysis of Multiple Sclerosis in Brain MRI Images*, **IEEE Trans. on Information Technology in Biomedicine**, Vol. 15, No. 1, pp. 119-129, 2011.
13. A Panayides, M. Pattichis, C. Pattichis, C. Loizou, M. Pantzaris, A. Pitsillides, *Atherosclerotic Plaque Ultrasound Video Encoding, Wireless Transmission, and Quality Assessment Using H.264*, **IEEE Trans. on Information Technology in Biomedicine**, Vol. 15, No. 3, pp. 387-397, 2011.
14. C.P. Loizou, S. Petroudi, M. Pantzaris, and C.S. Pattichis, *An Integrated System for the Segmentation of Atherosclerotic Carotid Plaque Ultrasound Video*, **IEEE Trans. Ultrasonics Ferroelectrics and Frequency Control**, Vol. 61, No. 1, pp. 86-101, Jan. 2014.
15. A. S. Panayides, M. S. Pattichis, C. P. Loizou, M. Pantzaris, A. G. Constantinides, and C.S. Pattichis, *An Effective Ultrasound Video Communication System Using Despeckle Filtering and HEVC*, **IEEE J. of Biomedical and Health Informatics**, vol. 19, no. 2, pp. 668-676, March 2015.
16. M. S. Neofytou, V. Tanos, I. Constantinou, M. S. Pattichis, E. C. Kyriacou, C. S. Pattichis, *Computer Aided Diagnosis in Hysteroscopy Imaging*, **IEEE Journal of Biomedical and Health Informatics**, vol. 19, no.3, pp.1129-1136, May 2015.
17. C.P. Loizou, S. Petroudi, I. Seimenis, M. Pantzaris, and C.S. Pattichis, *Quantitative Texture Analysis of Brain White Matter Lesions Derived from T2-weighted MR Images in MS Patients with Clinically Isolated Syndrome*, **Journal of Neuroradiology**, vol. 42, pp. 99-114, 2015.
18. A Holzinger, C Biemann, CS Pattichis, DB Kell, *What do we need to build explainable AI systems for the medical domain?*, - arXiv preprint arXiv:1712.09923, 2017, pp. 1-28.
19. Z.C. Antoniou, A.S. Panayides, M. Pantzaris, A.G. Constantinides, C.S. Pattichis, M.S. Pattichis, *Real-Time Adaptation to Time-Varying Constraints for Medical Video Communications*, **IEEE Journal of Biomedical and Health Informatics**, vol. 22, no. 4, pp. 1177-1188, DOI: [10.1109/JBHI.2017.2726180](https://doi.org/10.1109/JBHI.2017.2726180), 2018.
20. S. Leandrou, S. Petroudi, C.C. Reyes-Aldasoro, P. Kyriacou, C.S. Pattichis, *Quantitative MRI Brain Studies in Mild Cognitive Impairment and Alzheimer's disease: A Methodological Review*, **IEEE Reviews in Biomedical Engineering**, vol. 11, pp. 97-111, 2018. DOI: [10.1109/RBME.2018.2796598](https://doi.org/10.1109/RBME.2018.2796598).
21. A.S. Panayides, M. S. Pattichis, S. Leandrou, C. Pitris, A. Constantinidou, and C.S. Pattichis, *Radiogenomics for Precision Medicine with A Big Data Analytics Perspective*, **IEEE Journal of Biomedical and Health Informatics**, vol. 23, no. 5, pp. 2063-2079, 2019. DOI: [10.1109/JBHI.2018.2879381](https://doi.org/10.1109/JBHI.2018.2879381).
22. M. Pittara, M. Matsangidou, K. Stylianides, N. Petkov, C.S. Pattichis, *Virtual Reality for Pain Management in Cancer: A Comprehensive Review*, **IEEE Access**, accepted Nov. 29th, 2020. Digital Object Identifier 10.1109/ACCESS.2020.3044233.
23. S. Leandrou, D. Lamnisos, I. Mamais, P. Kyriacou, C. S. Pattichis, *Assessment of Alzheimer's Disease Based on Texture Analysis of the Entorhinal Cortex*, **Frontiers in Aging Neuroscience**, vol. 12, Article 176, pp. 1-12, 2020. DOI=10.3389/fnagi.2020.00176.
24. A.S. Panayides, A. Amini, N.D. Filipovic, A. Sharma, S.A. Tsaftaris, A. Young, D. Foran, N. Do, S. Golemati, T. Kurc, K. Huang, K.S. Nikita, B.P. Veasey, M. Zervakis, J.H. Saltz, C.S. Pattichis, *AI in Medical Imaging Informatics: Current Challenges and Future Directions*, **IEEE Journal of Biomedical and Health Informatics**, vol. 24, no. 7, pp. 1837-1857, 2020. DOI: 10.1109/JBHI.2020.2991043.
25. A. Aristodimou, A. Antoniades, ... G. Spyrou, C. Votsi, K. Christodoulou, M. Pantzaris, N. Grigoriadis, G. Hadjigeorgiou, C.S. Pattichis, *A Framework for Efficient n-Way Interaction Testing in Case/Control Studies with Categorical Data*, **IEEE Open J. of Eng. in Medicine and Biology**, vol. 2, pp. 256-262, 2021.
26. F. Frangoudes, M. Matsangidou, E. C. Schiza, K. Neokleous and C. S. Pattichis, "Assessing Human Motion During Exercise Using Machine Learning: A Literature Review," in **IEEE Access**, vol. 10, pp. 86874-86903, 2022. doi: 10.1109/ACCESS.2022.3198935.
27. V. Tanos, M. Neofytou, P. Tanos, CS Pattichis, MS Pattichis, *Computer-Aided Diagnosis by Tissue Image Analysis as an Optical Biopsy in Hysteroscopy*, **International Journal of Molecular Sciences**, 23(21):12782, 2022. <https://doi.org/10.3390/ijms232112782>.

FORM NUM: 500.1.03

Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Yiallourous
Name:	Panayiotis
Rank/Position:	Professor of Pediatrics
Faculty:	Medicine
Department:	Medical School
Scientific Domain: *	Pediatrics, Pulmonology, Child Health, Environmental Health

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	1995	University of Athens	Medical School	
Specialty in Pediatrics	1990	University of Athens	Medical School	
Ptychio Iatrikis	1985	University of Athens	Medical School	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
2016	2023	University of Cyprus	Cyprus	Professor of Pediatrics
1995	2015	Ministry of Health	Cyprus	Consultant Pediatric Pulmonologist
1990	1994	St Thomas' Hospital & Great Ormond Street Hospital	London - UK	Research/Clinical Fellow

Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	Responses of schoolchildren with asthma to recommendations to reduce desert dust exposure: Results from the LIFE-MEDEA intervention project using wearable technology.	Kouis P, Michanikou A, Galanakis E, Michaelidou E, Dimitriou H, Perez J, Kinni P, Achilleos S, Revvas E, Stamatelatos G, Zacharatos H, Savvides C, Vasiliadou E, Kalivitis N, Chrysanthou A, Tymvios F, Papatheodorou SI, Koutrakis P, Yiallourous PK.	Sci Total Environ	doi: 10.1016/j.scitotenv.2022.160518.	
2	2023	Improved indoor air quality during desert dust storms: The impact of the MEDEA exposure-reduction strategies.	Achilleos S, Michanikou A, Kouis P, Papatheodorou SI, Panayiotou AG, Kinni P, Mihalopoulos N, Kalivitis N, Kouvarakis G, Galanakis E, Michailidi E, Tymvios F, Chrysanthou A, Neophytou M, Mouzourides P, Savvides C, Vasiliadou E, Papasavvas I, Christophides T, Nicolaou R, Avraamides P, Kang CM, Middleton N, Koutrakis P, Yiallourous PK.	Sci Total Environ	doi: 10.1016/j.scitotenv.2022.160973. E	
3	2022	Pediatric asthma symptom control during lockdown for	Kouis P, Michaelidou E, Kinni P, Michanikou A,	Pediatr Pulmonol.	doi: 10.100	

		the COVID-19 pandemic in Spring 2020: A prospective community-based study in Cyprus and Greece.	Anagnostopoulou P, Dimitriou H, Karanickolas K, Matthaiou AM, Achilleos S, Papatheodorou SI, Koutrakis P, Middleton N, Galanakis E, Yiallourous PK.		2/ppul. 25765.	
4	2021	Demographic characteristics, clinical and laboratory features, and the distribution of pathogenic variants in the CFTR gene in the Cypriot cystic fibrosis (CF) population demonstrate the utility of a national CF patient registry.	Yiallourous PK, Matthaiou AM, Anagnostopoulou P, Kouis P, Libik M, Adamidi T, Eleftheriou A, Demetriou A, Ioannou P, Tanteles GA, Costi C, Fanis P, Macek M, Neocleous V, Phylactou LA.	Orphanet J Rare Dis.	doi: 10.1186/s13023-021-02049-z.	
5	2021	Use of wearable sensors to assess compliance of asthmatic children in response to lockdown measures for the COVID-19 epidemic.	Kouis P, Michanikou A, Anagnostopoulou P, Galanakis E, Michaelidou E, Dimitriou H, Matthaiou AM, Kinni P, Achilleos S, Zacharatos H, Papatheodorou SI, Koutrakis P, Nikolopoulos GK, Yiallourous PK.	Scientific Reports	doi: 10.1038/s41598-021-85358-4	
6	2021	The MEDEA childhood asthma study design for mitigation of desert dust health effects: implementation of novel methods for assessment of air pollution exposure and lessons learned.	Kouis P, Papatheodorou SI, Kakkoura MG, Middleton N, Galanakis E, Michaelidi E, Achilleos S, Mihalopoulos N, Neophytou M, Stamatelatos G, Kaniklides C, Revvas E, Tymvios F,	BMC Pediatr.	doi: 10.1186/s12887-020-02472-4.	

			Savvides C, Koutrakis P, Yiallourous PK.			
7	2020	Health related quality of life in adult primary Ciliary dyskinesia patients in Cyprus: development and validation of the Greek version of the QOL-PCD questionnaire.	Ioannou P, Kouis P, Kakkoura MG, Kaliva M, Toliopoulou A, Andreou K, Behan L, Lucas JS, Papanikolaou V, Charalambous G, Middleton N, Yiallourous PK.	Health Qual Life Outcomes.	doi: 10.1186/s12955-020-01360-w.	
8	2019	Prevalence and course of disease after lung resection in primary ciliary dyskinesia: a cohort & nested case-control study.	Kouis P, Goutaki M, Halbeisen FS, Gioti I, Middleton N, Amirav I; Israeli PCD Consortium; Barbato A; Italian PCD Consortium; Behan L, Boon M, Emiralioglu N, Haarman EG, Karadag B, Koerner-Rettberg C, Lazor R; Swiss PCD Group; Loebinger MR, Maitre B; French Reference Centre for Rare Lung Diseases; Mazurek H, Morgan L, Nielsen KG, Omran H, Özçelik U, Price M, Pogorzelski A, Snijders D; PCD Italian Consortium; Thouvenin G; French Reference Centre for Rare Lung Diseases; Werner C, Zivkovic Z, Kuehni CE, Yiallourous PK.	Respir Res.	doi: 10.1186/s12931-019-1183-y.	

9	2019	Cost-effectiveness analysis of three algorithms for diagnosing primary ciliary dyskinesia: a simulation study.	Kouis P, Papatheodorou SI, Middleton N, Giallourous G, Kyriacou K, Cohen JT, Evans JS, Yiallourous PK.	Orphanet J Rare Dis.	doi: 10.1186/s13023-019-1116-3.	
10	2018	The effect of L-Arginine on Ciliary Beat Frequency in PCD patients, non-PCD respiratory patients and healthy controls.	Kouis P, Hadjisavvas A, Middleton N, Papatheodorou SI, Kyriacou K, Yiallourous PK.	Pulm Pharmacol Ther.	doi: 10.1016/j.pupt.2017.10.010.	

Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
1					
2					
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**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2017-2022	MEDEA - Mitigating the Health Effects of Desert Dust Storms Using Exposure-Reduction Approaches	European Union LIFE16CCA/CY/000041	Project Coordinator
2	2019-2022	BEATHEAT - Biometeorological Aspect of Thermal environment and Health: impacts on public health and on special populations to improve the quality of life and tourism sustainability	Cyprus RESTART 2016 – 2020 EXCELLENCE/1216/0007	Work Package Leader
3	2012-2016	BESTCILIA - Better Experimental Screening and Treatment for Primary Ciliary Dyskinesia	European Union FP7 HEALTH.2012.2.4.4-2	Work Package Leader
4	2010-2012	The relation of Vitamin D status with asthma and atopy in adolescents in Cyprus.	Cyprus Research Promotion Foundation (RPF) (Project ΥΓΕΑ/ΔΥΓΕΑ/0308 (BE)/22)	Project Coordinator
5	2007-2009	Childhood asthma and atopy in Cyprus.	Cyprus Research Promotion Foundation (RPF) (Project ΥΓΕΑ/0506/17)	Project Coordinator

6	2007-2009	Asthma & Allergy and associated environmental & lifestyle factors in the two communities in Cyprus.	United Nations Development Program (UNDP Ref. 4701-07-001)	Project Coordinator
7	2007-2009	The relation between obesity, adipose tissue, fatty acids and systemic and airway inflammation.	Merck Sharpe & Dohme External Studies - Investigator-Initiated Studies Program (IISP ID#: 34393)	Project Coordinator
8	2007-2008	Air pollution and respiratory morbidity in adolescents in Cyprus.	Electricity Authority of Cyprus (EAC) (Project Contract: 4500003724 YA/875)	Project Coordinator
9	2006-2010	Environmental Risk Factors & Respiratory Diseases Program.	Ministry of Health of Cyprus (MoH) (Number of Proposal 622/2006, Council of Ministers Decision)	Project Coordinator
10	2015-2018	Translational Research in Primary Ciliary Dyskinesia - Bench, Bedside, and Population Perspectives (BEAT-PCD)	European Program COST (Project: oc-2014-1-19034 - BM1407)	Project Partner

**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2019-2022	Health Insurance Organization (Cyprus)	Chairman of the Medical Advisory Committee	Collaboration with NICE UK in contextualizing clinical guidelines for Cyprus Health System
2	1997-2023	Ministry of Health	In charge of Pediatric Pulmonology Unit, "Arch Makarios III" Hospital Nicosia, Cyprus.	Administration and Consultant Duties
3	2010-2015	Ministry of Health	Deputy Director, Department of Pediatrics, Arch Makarios Hospital Nicosia, Cyprus.	Administration Duties
4	2010-2013	University of Cyprus	Board Member of the Executive Governing Council of the University of Cyprus.	Governance Duties
5	2010-2013	University of Cyprus	Chairman of the Internal Audit Committee of the University of Cyprus	Governance Duties

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2020-2023	Editorial Board Member	BMC Pulmonary Medicine
2			
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Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
1			
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Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Yiallourou
Name:	Anneza
Rank/Position:	Assistant Professor
Faculty:	Medicine
Department:	Surgery
Scientific Domain: *	Breast Cancer Surgery

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	2014	National and Kapodistrian University of Athens	Medical School	"Association of circulating tumor cells, markers of apoptosis, homeostasis, and markers of genetic heterogeneity that influence apoptosis in breast cancer – clinical relevance"
Ptychio Iatrikis (MD)	2006	National and Kapodistrian University of Athens	Medical School	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
01/12/2021	Today	University of Cyprus	Medical School	Assistant Professor of Surgery
01/09/2016	30/11/2021	University of Cyprus	Medical School	Lecturer of Surgery
01/11/2014	31/07/2016	University College London	Breast Unit, Royal Free Hospital	Post- CCT Senior Clinical Fellow

Key <u>refereed</u> journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	Reducing the environmental impact of surgery on a global scale: systematic review and co- prioritization with healthcare workers in 132 countries.	National Institute for Health and Care Research Global Health Research Unit on Global Surgery.	British Journal of Surgery	110	804-817
2	2022	Outcomes of gynecological cancer surgery during the COVID-19 pandemic: an international, multicenter, prospective CovidSurg-Gynecologic Oncology Cancer study	Fotopoulou C., Khan T., Bracinik J., Glasbey J., Abu-Rustum N., Chiva L., Fagotti A., Fujiwara K., Ghebre R., Gutelkin M., O Konney T., Ng J., Pareja R., Kottayasamy Seenivasagam R., Sehouli J., Surappa S., Bhangu A., Leung E., Sundar S., CovidSurg Gynecological Cancer Collaborators	American Journal of Obstetrics and Gynecology	227	735
3	2022	The impact of surgical delay on resectability of colorectal cancer: An international prospective cohort study.	COVIDSurg Collaborative	Colorectal Dis	14	1-19
4	2022	SARS-CoV-2 infection and venous thromboembolism after surgery: an international prospective cohort study	COVIDSurg Collaborative and GlobalSurg Collaborative	Anaesthesia	77	28-39

5	2021	Death following pulmonary complications before and during the SARS- CoV- 2 pandemic	STARSurS Collaborative and COVIDSurS Collaborative	British Journal of Surgery	108	1448-1464
6	2019	Efficacy and safety of biologic agents and tofacitinib in moderate- to-severe ulcerative colitis: A systematic overview of meta- analyses	Pantavou K., Yiallourou A.I., Piovani D., Evripidou D., Danese S., Peyrin-Biroulet L., Bonovas S., Nikolopoulos G.K.	United European Gastroenterology Journal	71	1285-1303
7	2019	Short term success of treatments to salvage thrombosed or failing synthetic arteriovenous grafts in end stage renal disease: A systematic review and network meta- analysis of randomized controlled trials	Nikolopoulos G.K., Yiallourou A.I., Argyriou C., Bonovas S., Georgiadis G.S., Lazaridis M.K.,	European Journal of Vascular Surgery	58	92928
8	2018	Epidemiology of breast cancer in Cyprus: Data on newly diagnosed cases and survival rates,	Pilavaki P., Giallourou G., Yiallourou A.I., Pantavou K., Marcou Y., Demetriou A., Scoutellas V., Nikolopoulos G.K.,	Data in Brief	19	353-369
9	2014	Association of FokI and PvuII polymorphisms with breast cancer staging and survival among Caucasian women: A prospective study	Yiallourou A. I., Ekonomou E., Tsamadias V., Nastos K., Karapanos K., Papaconstantinou I., Theodosopoulos T., Contis J., Papalambros E., Voros D., Psychogios I	Journal of BUON	19	633-642

Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
1					
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10					

**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2023-2025	Personalised breast cancer screening in female population- Pilot study in Cyprus	Asklipios Grant- 15000 euros- Gilead Sciences Hellas	Principal Investigator
2	2022-2024	Psychosocial challenges in women who have undergone breast cancer surgery in Cyprus: Their unfulfilled psychological needs- BCan Study	20000 euros- A.G Leventis Foundation	Principal Investigator
3	2022-2024	Correlation Between Mammographic Features and Molecular Subtype of Breast Cancers	EU Horizon 2020 (grant agreement 739551)	Research team member
4	2018-2021	Electronic registry for data collection and follow-up of patients treated for breast cancer within the Nicosia General Hospital Breast Unit in Cyprus	50000 euros- University of Cyprus	Principal Investigator
5	2018-2019	Introduction of novel simulation methods in Clinical Skills- Standardised patients and Virtual Patient	10000 euros- Teaching Innovations Contest from the University of Cyprus Center	Research Team member

			for Teaching and Learning	
6	2023	Global Cohort Study: Hernlas, Pathway and Planetary Outcomes for Inguinal Hernia Surgery	NIHR Global Health Research Unit on Global Surgery	National Lead
7	2022	Cardiovascular Outcomes after Major abdominal surgery- CASCADE study	STARSurg-EUROSurg	Collaborator
8	2020-2021	CovidSurg-Cancer – Outcomes of elective cancer surgery during the COVID-19 pandemic crisis: an international, multicenter, observational cohort study	Not funded	Collaborator- Principal Local Investigator

**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2022- present	Health Insurance Organisation of Cyprus and NICE	Member of the Secretariat	Contextualisation of guidelines regarding atrial fibrillation, thyroid cancer, chronic kidney disease
2	2020- present	Cyprus Surgical Society	Member of the Educational Board	Organisation of Cyprus Surgical Conference, design of educational activities for national surgical residents
3	2022	Cyprus Surgical Society	Member of the Scientific Committee for the 15 th Greek-Cypriot Surgical Conference	Conference program design and educational activities
3	2016- present	Medical School	Member of the School's Interim Board	Decision making in school's activities, regarding curriculum, strategic plan, students' issues

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2022	Best Oral Presentation- <i>Psychosocial challenges in women who have undergone breast cancer surgery in Cyprus: Their unfulfilled psychological needs, BCan-Cy.</i>	15 th Greek- Cypriot Surgical Conference
2	2021	Best Oral Presentation- <i>Clinical management of lesions with uncertain malignant potential. The Nicosia General Hospital Breast Unit experience.</i>	2 nd Hybrid Scientific Conference- Breast Cancer and newer challenges in clinical management

Other Achievements. List the five (5) more recent and other five (5) selected.(max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
1	2017-present	Head of the Nicosia General Hospital Breast Unit	Overseeing all activities of the unit including outpatients' clinics, theatre lists, multidisciplinary team meetings, Annual progress reports, Unit Development plan
2	2020-2022	Head of the 4 th Year Undergraduates Studies of the University of Cyprus Medical School	Yearly timetable design, collaboration with course coordinators, bi-annual progress reports

Academic Personnel Short Profile / Short CV

University:	University of Cyprus
Surname:	Zachariou
Name:	Zacharias
Rank/Position:	Full Professor
Faculty:	Medicine
Department:	Childrens Hospital
Scientific Domain: *	Pediatric Surgery

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
MD	1985	University of Heidelberg	Immunology	Kupfer and endothelial cells
Specialist General Surgery	1992	University of Heidelberg	Surgery	
Specialist Pediatric Surgery	1994	University of Heidelberg	Pediatric Surgery	
PhD	1994	University of Heidelberg	Surgery	
Full Professor	2000	University of Heidelberg	Surgery and Pediatric Surgery	
Clinic Director	2003	University of Bern	Department of Pediatric Surgery	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
1985	1987	University of Heidelberg	Germany	trainee
1987	1993	University of Heidelberg	Germany	trainee
1993	2003	University of Heidelberg	Germany	consultant
2003	2015	University of Bern	Switzerland	director
2015	Till now	University of Cyprus	Cyprus	consultant

Key <u>refereed</u> journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2000	Memorix Pediatric Surgery	No	Chapman & Hall	book	500
2	2009	Pediatric Surgery Digest	Editor	Springer	book	900
3	2023	Pediatric Surgery Digest	Editor	Springer	book	900
4	1985 - today	99 peer reviewed publications	First and senior authors	Pediatric Surgical journals	Original articles	
5						
6						
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Exhibitions (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)					
Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
1					
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**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1		Autolog-allotope small bowel mucosa transplantation as a therapy of short bowel syndrome	DFG	Principle investigator
2		Morphological and sonographical examination of the testis after Fowler-Stephens procedure in rats	Univ. of Heidelberg	Principle investigator
3		Therapy of haemangiomas according to their morphometric criteria.	Univ. of Bern	Principle investigator
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**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2003-2010	EUPSA	Treasurer	
2	2010-2013	EUPSA	President Elect	
3	2013-2015	EUPSA	President	
4	2015-2017	EUPSA	Past President	
5	2013 -2022	UEMS	Board member	
	Since 1996	European Journal of Paediatric Surgery	Editorial board member	
	Since 1999	Journal of Paediatric Surgery	Editorial board member	
	Since 2000	World Journal of Pediatrics	Editorial board member	

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Awarded by:
1	2004	Dr. honoris Causa	University of Cluj, Romania
2	2009	Honorary Member Greek Association of Pediatric Surgery	
3	2011	Honorary Member Iranian Association of Pediatric Surgery Shiraz, Iran	
4	2012	Honorary Member Russian Association of Pediatric Surgery	
5	2015	Visiting professor	University of Pec, Hungary
6	2019	Visiting professor	University of Nis, Serbia
7	2021	Honorary Member EUPSA	
8	2024	EUPSA Rehbein Medal recipient	
9			
10			

Other Achievements. List the five (5) more recent and other five (5) selected- (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
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Short-CV - Dr. Vasilis J. Promponas, PhD.

Associate Professor in Bioinformatics, Bioinformatics Research Laboratory, Department of Biological Sciences, University of Cyprus, Nicosia, Cyprus

Dr Promponas (VJP) serves at the rank of Associate Professor at the Department of Biological Sciences, University of Cyprus where he is Head of the Bioinformatics Research Laboratory (BRL). He holds a BSc in Physics (University of Athens, 1996) and a PhD in Biological Sciences (University of Athens, 2004). He has received an EMBL-EBI visitors program fellowship (1998) and conducted PostDoctoral research at the Department of Cell Biology and Biophysics (University of Athens, 2004-2005). In 2005 he established the BRL at the University of Cyprus.

His research interests focus on the development of empirical, statistical & machine learning and deep-learning methods, as well as specialized databases for exploiting available types of biological information towards understanding biological systems. With a particular interest in **protein bioinformatics**, the BRL has contributed significantly to the study of several types of non-globular proteins (including the development of relevant algorithms, software tools and databases). In addition, development and use of advanced biomedical text mining technologies, have served the BRL both for mining biomedical literature corpora for hypothesis generation and for extracting information relevant to biocuration activities undertaken by the BRL.

His current research focuses into proteins with **local compositional bias** (Kirmizoglou and Promponas, 2015; Ntountoumi et al., 2019; Jarnot et al, 2020; Mier et

al., 2020; Kastano et al., 2022), **repeats** (Tørresen et al., 2019; Ioannides et al., 2023) and **intrinsically disordered regions** (Hatos et al., 2020; Necci et al., 2021; Quaglia et al., 2022). During the last decade, the lab has established a strong research direction towards the characterization and study of proteins and processes related to **eukaryotic endomembrane systems**, (e.g., autophagy, nuclear pore complexes) with computational approaches. In particular, the BRL had leading role in the development of the **iLIR** server (Kalvari et al., 2014) and the **iLIR Database** (Jacomin et al., 2016) online resources, which are widely used by autophagy researchers worldwide for studying LIR motif-containing proteins (LIRCPs) across species. The BRL have recently developed the **LIRcentral resource** (Chatzichristofi et al., 2023; <https://lircentral.eu>), which currently offers the richest resource of LIRCPs with experimentally verified LIR-motifs, manually curated from the literature. Recently, LIRcentral curators participated in annotating the “Autophagy-related proteins” thematic dataset in DisProt (<https://www.disprot.org/>). Moreover, in collaborative work, the BRL has provided compelling evidence for the role of several **nuclear pore complex** subunits in cellular functions **unrelated to their “conventional” roles** at the nuclear pore (Katsani et al., 2014), elucidated for the first time the **evolutionary connections** of specific nucleoporins to other eukaryotic endomembrane system subunits using sequence data (Promponas et al., 2016), and developed the most comprehensive toolset of **probabilistic motifs** for the high-throughput identification of nucleoporin subunits in completely sequenced genomes and metagenomes (Ioannides et al., 2023).

Dr Promponas’ work has been published in **>50 international peer reviewed journal papers**, as well as in the proceedings of **international conferences and edited volumes** (citations: >10000; h-index:25; source: Google Scholar 12/2023). He serves as **Academic Editor** for PLOS One (Public Library of Science) and Computational & Structural Biotechnology (Elsevier) and regularly **reviews for major international journals** publishing research in bioinformatics/computational genomics (e.g., Briefings in Bioinformatics, Bioinformatics, Nucleic Acids Research, Genome Research). Currently, he is a member of the steering committee for implementing the ELIXIR-Cyprus node for the pan-European **ELIXIR infrastructure**.

VJP currently coordinates the LIRcentral (EXCELLENCE/0421/0576) project funded by the Cyprus Research Promotion Foundation and participates in the EU-funded project ELIXIR-Steers (REA: HORIZON-INFRA-2023-DEV-01; Project ID: 101131096, collaborator). VJP also served as a MC member for Cyprus in the EU COST Actions ML4Microbiome: “Statistical and machine learning techniques in human microbiome studies” (CA18131) and NGP-net: “Non-globular proteins in molecular pathophysiology” (BM1405).

Selected Publications (Since 2014)

Chatzichristofi A, Sagris V, Pallaris A, Eftychiou M, Kalvari I, Price N, Theodosiou T, Iliopoulos I, Nezis IP, **Promponas VJ**. LIRcentral: a manually curated online database of experimentally validated functional LIR motifs. **(2023) Autophagy**. 19(12):3189-3200.

Hatos A, Hajdu-Soltész B, Monzon AM, [..], **Promponas VJ**, Pujols J, [..], Tompa P, Tosatto SCE, Piovesan D. DisProt: intrinsic protein disorder annotation in 2020. **(2020) Nucleic Acids Res**. 48(D1):D269-D276.

Ioannides AN, Katsani KR, Ouzounis CA, **Promponas VJ**. A library of sensitive position-specific scoring matrices for high-throughput identification of nuclear pore complex subunits. **(2023) NAR Genom Bioinform**. 5(1):lqad025.

[Jacomin A.C., Samavedam S., **Promponas V.**, Nezis I.P. iLIR database: A web resource for LIR motif-containing proteins in eukaryotes \(2016\) *Autophagy* 12\(10\):1945-1953.](#)

[Jarnot P, Ziemska-Legiecka J, Dobson L, \[..\], Tosatto SCE, **Promponas VJ**, Grynberg M, Gruca A. PlaToLoCo: the first web meta-server for visualization and annotation of low complexity regions in proteins. \(2020\) *Nucleic Acids Res.* gkaa339. doi: 10.1093/nar/gkaa339.](#)

[Kalvari I, Tsompanis S, Mulakkal NC, Osgood R, Johansen T, Nezis IP, **Promponas VJ**. iLIR: a web resource for prediction of Atg8-family interacting proteins. \(2014\) *Autophagy*. 10\(5\):913-25.](#)

[Kastano K, Mier P, Dosztányi Z, **Promponas VJ**, Andrade-Navarro MA. Functional Tuning of Intrinsically Disordered Regions in Human Proteins by Composition Bias. \(2022\) *Biomolecules*. 12\(10\):1486.](#)

[Katsani KR, Irimia M, Karapiperis C, Scouras ZG, Blencowe BJ, **Promponas VJ**, Ouzounis CA. Functional genomics evidence unearths new moonlighting roles of outer ring coat nucleoporins. \(2014\) *Sci Rep*. 4:4655.](#)

[Kirmitzoglou I, **Promponas VJ** LCR-eXXXplorer: a web platform to search, visualize and share data for low complexity regions in protein sequences \(2015\) *Bioinformatics* 31\(13\), 2208-2210.](#)

[Mier P, Paladin L, Tamana S, \[..\], **Promponas VJ**, Kajava AV, Hancock JM, Tosatto SCE, Dosztanyi Z, Andrade-Navarro MA. Disentangling the complexity of low complexity proteins. \(2020\) *Brief Bioinform*. 21\(2\):458-472.](#)

[Moreno-Indias I, Lahti L, \[..\], Pongor S, **Promponas VJ**, Przytus P, \[..\], Gómez-Cabrero D, Claesson MJ. Statistical and Machine Learning Techniques in Human Microbiome Studies: Contemporary Challenges and Solutions. \(2021\) *Front Microbiol*. 12:635781.](#)

[Necci M, Piovesan D; CAID Predictors; **DisProt Curators**, Tosatto SCE. Critical assessment of protein intrinsic disorder prediction. \(2021\) *Nat Methods*. 18\(5\):472-481.](#)

[Ntountoumi C, Vlastaridis P, Mossialos D, Stathopoulos C, Iliopoulos I, **Promponas V**, Oliver SG, Amoutzias GD. Low complexity regions in the proteins of prokaryotes perform important functional roles and are highly conserved \(2019\) *Nucleic Acids Res*. 47\(19\):9998-10009.](#)

[**Promponas VJ**, Katsani KR, Blencowe BJ, Ouzounis CA. Sequence evidence for common ancestry of eukaryotic endomembrane coatomers. \(2016\) *Sci Rep*. 6:22311.](#)

[Quaglia F, Mészáros B, Salladini E, Hatos A, Pancsa R, Chemes LB, Pajkos M, Lazar T, Peña-Díaz S, Santos J, Ács V, Farahi N, Fichó E, Aspromonte MC, Bassot](#)

C. Chasapi A, Davey NE, Davidović R, Dobson L, Elofsson A, Erdős G, Gaudet P, Giglio M, Glavina J, Iserle J, Iglesias V, Kálmán Z, Lambrugh M, Leonardi E, Longhi S, Macedo-Ribeiro S, Maiani E, Marchetti J, Marino-Buslje C, Mészáros A, Monzon AM, Minervini G, Nadendla S, Nilsson JF, Novotný M, Ouzounis CA, Palopoli N, Papaleo E, Pereira PJB, Pozzati G, **Promponas VJ**, Pujols J, Rocha ACS, Salas M, Sawicki LR, Schad E, Shenoy A, Szaniszló T, Tsirigos KD, Veljkovic N, Parisi G, Ventura S, Dosztányi Z, Tompa P, Tosatto SCE, Piovesan D. DisProt in 2022: improved quality and accessibility of protein intrinsic disorder annotation. (2022) *Nucleic Acids Res.* 50(D1):D480-D487.

Tørresen OK, Star B, Mier P, Andrade-Navarro MA, Bateman A, Jarnot P, Gruca A, Grynberg M, Kajava AV, **Promponas VJ**, Anisimova M, Jakobsen KS, Linke D. Tandem repeats lead to sequence assembly errors and impose multi-level challenges for genome and protein databases. (2019) *Nucleic Acids Res.* 47(21):10994-11006.

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ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION



ANNEX 4 – INFRASTRUCTURE

University of Cyprus

The building facilities of the University of Cyprus consist of 87 different buildings, with a total area of 131,568 m², and are distributed by geographical location as follows:

1. University campus

The new University campus is located on the outskirts of east Nicosia, between Aglantzia and Athalassa, and covers an area of approximately 1.2 km². The new Facilities will eventually host all faculties, departments, and teaching activities of the University. Currently it consists of 47 different buildings with a total area of 131,568 m². By its completion, the Campus will be able to accommodate up to 10,000 students.

In the current development phase, the University Campus includes the following:

- The School of Positive and Applied Sciences: offices, labs, classrooms, and canteens;
- The School of Economics and Administration: offices, labs, classrooms, and canteens;
- Teaching buildings 1 and 2: amphitheatres and lecture halls;
- The Building of Social Activities: Restaurant, Shopping Center, Academic and Administrative Staff Club, Radio Station, Seminar Rooms, Entrepreneurship Center, Health Center, Reading Rooms, Conference Rooms, Student Clubs, Cervantes Institute, Koufoukios Institute, etc.
- Sports Center: football, tennis, basketball / volleyball, tennis and volleyball courts, aerobics, weights and aerobics, weightlifting, martial arts, offices, and locker rooms;
- Students' halls;
- "Anastasios G. Leventis" administration building: offices of rector and administrative services, Senate Hall, Meeting Rooms;
- and the Energy center.

After the completion of the building constructions at the University Campus, the library is expected to be transferred to the Learning Resource Centre "Stelios Ioannou" (LRC). The LRC expands to an area of 15,700 m² and is going to gather all library collections. The LRC will provide its users with approximately 900 study locations, including specially designed spaces for group study, as well as state-of-the-art equipment. In addition, the Polytechnic School and the Department of Biology are under construction, while the construction of the new building of the Medical School is expected to start.

2. Academy campus

The Academy Campus, former Pedagogical Academy, was the place where the University of Cyprus was housed when it first operated in 1989. The campus is located in an area of 12,017 m² with 14 buildings in total including classrooms, labs, offices, the Library, and the Information Systems Service.

3. Other buildings

In addition to the buildings of the Pedagogical Academy, the University of Cyprus owns or rents 31 peripheral buildings of 31,052 m² to cover its needs until the new Campus is completed in Aglantzia. These buildings cover labs and offices needs of the Departments and include the Shacolas Educational Center for Clinical Medicine, which houses the Medical School of the University of Cyprus.

4. Teaching and Research Infrastructure

The University of Cyprus has in total 106 teaching rooms that consist 30% of the total building facilities of the University of Cyprus. These facilities amount to 6,620 m², of which 1000 m² are for the Academy campus, 4,677 m² for the Aglantzia campus, and 943 m² for the Shacolas Educational Center for Clinical Medicine.

The teaching rooms are divided into lecture halls and amphitheatres, depending on their capacity and type, and are well-equipped with audiovisual means including sound systems, projectors, televisions, interactive boards, and screens. In addition, some rooms are equipped with teleconferencing systems. All teaching areas are covered by a wireless internet connection, while the lighting of the premises is done using smart systems.

The laboratories (in total 208) are located in all the main buildings of the University of Cyprus and have a total area of 7,534 m². All laboratories have the appropriate equipment, which is usually financed both from the budget of the University of Cyprus and from external sources of funding. In addition, there are laboratories that exclusively regard teaching with a total area of 5,590 m². Protection and security measures are applied to all laboratories using protocols on a case-by-case basis, while continuing education and training is provided to assure compliance with rules, and to prevent and control accidents.

The University of Cyprus, in the context of its green policy, has a photovoltaic park with a total capacity of 400KW, while it is expected to achieve its full energy autonomy in the near future, with the completion of a second photovoltaic park, 10MW in total. Additionally, the green policy adopted by the University of Cyprus determines both the design and the construction of its new buildings.

5. Library of the University of Cyprus

The Library of the University of Cyprus is the largest and most important Library in Cyprus. It serves the University Community with more than 10,000 students and academic / administrative staff and over 1,350 registered external members, and is freely accessible by any interested visitor.

Currently, the library users have access to more than 450,000 volumes of printed books, magazines and audiovisual material, about 422,500 titles of e-books, and 30,000 titles of e-journals and 315 databases, covering a wide range of subjects, such as humanities and social sciences, natural and applied sciences, medicine, etc.

In addition to book lending (67,883 in 2016), the Library provides services such as: access to electronic information sources, interlibrary lending (326 user requests in 2016 and 298 requests from other libraries), reading / study areas, computers, photocopying, informative education seminars (3,070 hours of participation in 2016), bibliographical support, services for visually impaired people, real-time communication, etc. The Library provides uninterrupted, complete, and specialized information on every subject, since each Department makes orders for subscriptions, books, magazines, and databases (individual subscriptions).

Medical School

The Medical School is located at the Shakolas Education Centre for Clinical Medicine (SECCM) with a total area of 6,988.56 m². The facilities at SECCM include:

- Offices for faculty members,
- Offices for administrative staff and other research and teaching staff,
- Teaching rooms,
- Laboratories (Clinical Skills, Anatomy, Pharmacology and Molecular Biology, Physiology, Medical Statistics, Epidemiology, and Public Health-Informatics),
- Conference rooms,
- The lecture hall "Elpida Shakola",
- The auditorium "Nikos Shakolas".

There are 7 teaching rooms (each has a digital projector) with a capacity of 20-40 people (39.77 to 80.48 m²). The lecture hall "Elpida Shakola" has a capacity of 110 people and is equipped with 2 monitors, a digital projector, internet connection, and microphone. The amphitheater "Nikos Shakolas" is a modern amphitheater with a capacity of 370 people. Its equipment includes a digital projector, podium, internet connection, and microphones.

The lab of Medical Statistics, Epidemiology, and Public Health-Informatics (room 106, 66.92 m²), which is necessary for the MSc course in Methods in Medical Research, has a capacity of 30 people, and is equipped with new, high-tech computers, and a digital projector. Statistical software (Stata and R) is installed on the computers.

Moreover, the facilities at SECCM include server rooms, blood sampling rooms, and rooms for cell cultures, sterilization, specialized instruments, and common instruments. The SECCM also houses the Molecular Medicine Research Center.

There is also a library, multimedia/computers room, and photocopy/stationery rooms. There also are spacious public areas (reception, kitchen, indoor and outdoor areas for recreation activities, cafe) and storerooms. The rooms for sound and lighting, and for the electrical supply are important for the smooth, everyday operation and use of the building.

The SECCM is protected by security services on a 24-hour basis. At the entrance of the building, there is a reception desk where the security officer can be found.

The facilities of the Medical School are presented in detail in the following Table 5.

TABLE 5 - MEDICAL SCHOOL SPACES AT SECCM

Entrance (Ground Floor)		
	<ul style="list-style-type: none"> • Reception • Security Guard • Public Toilets / Disabled Area • Vertical traffic / Lifts 	
Laboratories (3 levels)		
Semi-basement	<p>Clinical Skills Laboratory – 30 seats – B102 – Evangelia Gkougkoudi (Special Teaching Staff)</p>	
	<p>Clinical Skills Laboratory – 20 seats – B103 – Evangelia Gkougkoudi (Special Teaching Staff)</p>	


		
	Laboratory of Urodynamic Control & Manometry – 10 seats – B103A Zacharias Zachariou (Professor)	
	Research Laboratory Zebrafish Laboratory – B104 Nicholas Dietis (Assistant Professor)	
Ground Floor	Microscopy Lab – 27 seats – 005 Solon Kleanthous (Special Teaching Staff)	

	<p>Computer Lab – 27 seats – 007</p>	
1 st Floor	<p>Pharmacology and Molecular Biology Lab – 36 seats – 101 Nicholas Dietis (Assistant Professor)</p>	
	<p>Clinical Studies Unit – 102 Gerasimos Filippatos (Professor)</p>	


	<p>Physiology Laboratory – 103 Demetris Farmakis (Associate Professor) Constantinos Pitsios (Special Teaching Staff)</p>	
	<p>Anatomy Lab -26 seats with 5 electronic Anatomage tables. – 105 Solon Kleanthous (Special Teaching Staff)</p>	

	<p>Medical Statistics, Epidemiology and Public Health laboratory – 30 seats – 106 Georgios Nikolopoulos (Assistant Professor)</p>	
Teaching Rooms (3 levels)		
Semi- basement	<p>Nicos Shacolas Amphitheatre – 370 seats (small stage, control room, translators' rooms)</p>	
	<p>Elpida Shacola Lecture Theatre – 100 seats (B108)</p>	

Ground Floor:	3 Lecture rooms - 25 seats (001, 002, 003)	
	2 Lecture rooms – 48 seats (006)	
	Laboratory of Respiratory Physiology (030) Panayiotis Yiallourous (Professor)	

	Prototype Examination Room (031)	
	Prototype Examination Room (032)	
Library		
	Library: 60 study seats for Medical School use and Ministry of Health. 2 Rooms for group work	
Deanery, Administrative offices, and other spaces		
	Medical School Dean's office	

	Academic and Administration Staff offices at 3 levels (total of 30 offices)	
	2 Meeting rooms (110, 207)	
	Cafeteria 120 seats (2018)	
	Staff Common Room (1 st floor, 128)	

	Socialising space (semi-basement)	
Supportive spaces		
	Central Server, EAC substation, engineering room, big storage room, maintenance room, generators room, mechanical Installation rooms and water tanks for fire extinguishing, storage rooms for medical gases, janitors rest rooms, recycling rooms, waste spaces.	  



Annex 4

TABLE 3 – Medical School Subscriptions	Publisher
EMBASE	Elsevier
NetANATOMY	Scholar Educational Systems, Inc
THIEME JOURNALS MEDICAL PACKAG	Georg Thieme Verlag KG
UpToDate - new 2018	UpToDate Wolters Kluwer

TABLE 4 – Multidisciplinary Consortium Subscriptions
A.I.P. AMERICAN INSTITUTE OF PHYSICS
A.P.S. AMERICAN PHYSICAL SOCIETY
AMERICAN CHEMICAL SOCIETY - ALL Pubs
ASSOCIATION FOR COMPUTING MACHINERY - ALL
BIOMED CENTRAL - Membership
C.U.P. CAMBRIDGE UNIVERSITY PRESS + DIGITAL ARCHIVE
COCHRANE LIBRARY
EBOOK CENTRAL - EBRARY
EBSCO DATABASES, EBOOKS, EDS, PsycArticles PsycInfo
ELSEVIER - COMPLETE FREEDOM COLLECTION, Elsevier ebooks - Evidence Based Selection, Mendeley Institutional Edition
ELSEVIER - SCOPUS
IEEE/IET Electronic Library (IEL) - Upgrade for 2018 Online subscription includes access to the full-text of IEEE content published since 1988 with select content published since 1872 from: IEEE journals, transactions, and magazines, including early access documents IEEE conference proceedings (all) IET journals IET conference proceedings IEEE published standards IEEE Standards Dictionary Online
JOHN WILEY AND SONS Enhanced Access Licence Database Model
JOURNAL AND HIGHLY CITED DATA ON THE INCITES PLATFORM
[JOURNAL CITATION REPORTS (THOMSON REUTERS SCIENTIFIC)- JCR/ESI]
O.R.O. Oxford Reference Online + GROVE ART/MUSIC
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ANNEX 5 – QUALITY STANDARDS AND INDICATORS

Instructions:

The present ANNEX should be duly completed by the Internal Quality Committee of the Institution. The ANNEX constitutes an integral part of the application for the evaluation accreditation of a program of study.

Quality Standards and Indicators

The present document has been prepared within the framework of the authority and competencies of the Cyprus Agency of Quality Assurance and Accreditation in Higher Education, according to the provisions of the “Quality Assurance and Accreditation of Higher Education and the Establishment and Operation of an Agency on Related Matters Laws of 2015 to 2016”.

The document describes the quality standards and indicators, which will be applied for the evaluation of the programs of study of institutions of higher education.

DIRECTIONS: Note what is applicable for each quality standard/indicator.

1. Applicable to a minimum degree
2. Applicable to a non satisfactory degree
3. Applicable to a satisfactory degree
4. Applicable to a very satisfactory degree
5. It applies and it constitutes a good practice

It is pointed out that, in the case of standards and indicators that cannot be applied due to the status of the institution and/or of the program of study, N/A (= Not Applicable) should be noted and a detailed explanation should be provided on the institution’s corresponding policy regarding the specific quality standard or indicator.

1. EFFECTIVENESS OF TEACHING WORK – AVAILABLE RESOURCES					
1.1	Organization of teaching work	1	2	3	4 5
1.1.1	The student admission requirements to the program of study, are based on specific regulations which are adhered to in a consistent manner.				x
1.1.2	The number of students in each class allows for constructive teaching and communication, and it compares positively to the current international standards and/or practices.				x
1.1.3	The organization of the educational process safeguards the quality implementation of the program's purpose and objectives and the achievement of the learning outcomes. Particularly, the following are taken into consideration:				
1.1.3.1	The implementation of a specific academic calendar and its timely publication.				x
1.1.3.2	The disclosure of the program's curricula to the students, and their implementation by the teaching personnel				x
1.1.3.3	The course web-pages, updated with the relevant supplementary material				x
1.1.3.4	The procedures for the fulfillment of undergraduate and postgraduate assignments / practical training				x
1.1.3.5	The procedures for the conduct and the format of the examinations and for student assessment				x
1.1.3.6	The effective provision of information to the students and the enhancement of their participation in the procedures for the improvement of the educational process.				x
1.1.4	Adequate and modern learning resources, are available to the students, including the following:				
1.1.4.1	facilities				x
1.1.4.2	library				x

	1.1.4.3	infrastructure					X
	1.1.4.4	student welfare					X
	1.1.4.5	academic mentoring					
1.1.5	A policy for regular and effective communication, between the teaching personnel and the students, is applied.						X
1.1.6	The teaching personnel, for each course, provide timely and effective feedback to the students.						X
1.1.7	Statutory mechanisms, for the support of students and the communication with the teaching personnel, are effective.						X
1.1.8	Control mechanisms for student performance are effective.						X
1.1.9	Support mechanisms for students with problematic academic performance are effective.						X
1.1.10	Academic mentoring processes are transparent and effective for undergraduate and postgraduate programs and are taken into consideration for the calculation of academic work load.						X
1.1.11	The program of study applies an effective policy for the prevention and detection of plagiarism.						X
1.1.12	The program of study provides satisfactory mechanisms for complaint management and for dispute resolution.						X

Justify the answer you have provided and note the additional comments you may have on each standard / indicator.

See Annex 4 & 6.

Note, additionally:

- α) the expected number of Cypriot and International Students in the program of study.
- β) the countries of origin of the majority of students.
- γ) the maximum planned number of students per class-section.

The expected number of students (first years of operation) are 10-12 Cypriots and 3-5 from other countries, mainly from Greece. The maximum planned number of students per class is 15.

1.2	Teaching	1	2	3	4	5
1.2.1	The methodology utilized in each course is suitable for achieving the course's purpose and objectives and those of the individual modules.					x
1.2.2	The methodology of each course is suitable for adults.					x
1.2.3	Continuous-formative assessment and feedback are provided to the students regularly.					x
1.2.4	The assessment system and criteria regarding student course performance, are clear, adequate, and known to the students.					x
1.2.5	Educational activities which encourage students' active participation in the learning process, are implemented.					x
1.2.6	Teaching incorporates the use of modern educational technologies that are consistent with international standards, including a platform for the electronic support of learning.					x
1.2.7	Teaching materials (books, manuals, journals, databases, and teaching notes) meet the requirements set by the methodology of the program's individual courses, and are updated regularly.					x

Justify the answer you have provided and note the additional comments you may have on each standard / indicator.

At the beginning of the semester students are informed about:

- The subject matter and the main objectives of the course
- The evaluation methods and their weight in the overall score
- Exam dates and delivery dates
- Office hours and ways of communicating
- Bibliography

1.3	Teaching Personnel	1	2	3	4	5
1.3.1	The number of full-time academic personnel, occupied exclusively at the institution, and their fields of expertise, adequately support the program of study.					x
1.3.2	The members of teaching personnel for each course have the relevant formal and fundamental qualifications for teaching the course, as described by the legislation, including the following:					
1.3.2.1	Subject specialization, preferably with a doctorate, in the discipline.					x
1.3.2.2	Publications within the discipline.					x
1.3.3	The specializations of Visiting Professors adequately support the program of study.					x
1.3.4	Special Teaching Personnel and Special Scientists have the necessary qualifications, adequate work experience and specialization to teach a limited number of courses in the program of study.					x
1.3.5	In every program of study the Special Teaching Personnel does not exceed 30% of the Teaching Research Personnel.					x
1.3.6	The teaching personnel of each private institution of tertiary education, to a percentage of at least 70%, has recognized academic qualification, by one level higher than that of the program of study in which he/she teaches.					x
1.3.7	In the program of study, the ratio of the number of courses taught by full-time personnel, occupied exclusively at the institution, to the number of courses taught by part-time personnel, ensures the quality of the program of study.					x
1.3.8	The ratio of the number of students to the total number of teaching personnel is adequate for the support and safeguarding of the program's quality.					x
1.3.9	The academic personnel's teaching load does not limit the conduct of research, writing, and contribution to the society.					x
1.3.10	Future redundancies / retirements, expected recruitment and promotions of academic personnel safeguard the					x

	unimpeded implementation of the program of study within a five-year span.					
1.3.11	The program's Coordinator has the qualifications and experience to efficiently coordinate the program of study.					x
<p>Justify the answer you have provided and note the additional comments you may have on each standard / indicator.</p> <p>See Annex 3.</p>						

2. PROGRAM OF STUDY AND HIGHER EDUCATION QUALIFICATIONS						
2.1	Purpose and Objectives and learning outcomes of the Program of Study	1	2	3	4	5
2.1.1	The purpose and objectives of the program of study are formulated in terms of expected learning outcomes and are consistent with the mission and the strategy of the institution.					x
2.1.2	The purpose and objectives of the program and the learning outcomes are utilized as a guide for the design of the program of study.					x
2.1.3	The higher education qualification and the program of study, conform to the provisions of their corresponding Professional and Vocational Bodies for the purpose of registration to these bodies.					x
2.1.4	The program's content, the methods of assessment, the teaching materials and the equipment, lead to the achievement of the program's purpose and objectives and ensure the expected learning outcomes.					x
2.1.5	The expected learning outcomes of the program are known to the students and to the members of the academic and teaching personnel.					x
2.1.6	The learning process is properly designed to achieve the expected learning outcomes.					x

2.1.7	The higher education qualification awarded to the students, corresponds to the purpose and objectives and the learning outcomes of the program.					X
Justify the answer you have provided and note the additional comments you may have on each standard / indicator.						
2.2	Structure and Content of the Program of Study	1	2	3	4	5
2.2.1	The course curricula clearly define the expected learning outcomes, the content, the teaching and learning approaches and the method of assessing student performance.					X
2.2.2	The European Credit Transfer System (ECTS) is applied and there is true correspondence between credits and workload per course and per semester for the student either he / she studies in a specific program or he/she is registered and studies simultaneously in additional programs of studies according to the European practice in higher education institutions.					X
2.2.3	The program of study is structured in a consistent manner and in sequence, so that concepts operating as preconditions precede the teaching of other, more complex and cognitively more demanding, concepts.					X
2.2.4	The higher education qualification awarded, the learning outcomes and the content of the program are consistent.					X
2.2.5	The program, in addition to the courses focusing on the specific discipline, includes an adequate number of general education courses.					X
2.2.6	The content of courses and modules, and the corresponding educational activities are suitable for achieving the desired learning outcomes with regards to					X

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2.3.4	The quality assurance process constitutes an academic process and it is not restricted by non-academic factors.					x
Justify the answer you have provided and note the additional comments you may have on each standard / indicator.						
2.4	Management of the Program of Study	1	2	3	4	5
2.4.1	Effective management of the program of study with regard to its design, its approval, its monitoring and its review, is in place.					x
2.4.2	It is ensured that learning outcomes may be achieved within the specified timeframe.					x
2.4.3	It is ensured that the program's management and development process is an academic process which operates without any non-academic interventions.					x
2.4.4	The academic hierarchy of the institution, (Rector, Vice-Rectors, Deans, Chairs and Programs' Coordinators, academic personnel) have the sole responsibility for academic excellence and the development of the programs of study.					x
2.4.5	Information relating to the program of study are posted publicly and include:					
2.4.5.1	The provisions regarding unit credits					x
2.4.5.2	The expected learning outcomes					x
2.4.5.3	The methodology					x
2.4.5.4	Course descriptions					x
2.4.5.5	The program's structure					x
2.4.5.6	The admission requirements					x
2.4.5.7	The format and the procedures for student assessment					x
2.4.6	The award of the higher education qualification is accompanied by the Diploma Supplement which is in line with the European and international standards.					x
2.4.7	The effectiveness of the program's evaluation mechanism, by the students, is ensured.					x

2.4.8	The recognition and transfer of credit units from previous studies is regulated by procedures and regulations which ensure that the majority of credit units is awarded by the institution which awards the higher education qualification.						X
<p>Justify the answer you have provided and note the additional comments you may have on each standard / indicator.</p> <p>See Annex 6.</p> <p>In the case of practical training, note: N/A</p> <ul style="list-style-type: none"> - The number of credit units for courses and the number of credits for practical training - In which semester does practical training takes place? - Note if practical training is taking place in a country other than the homecountry of the institution which awards the higher education qualification 							
2.5	International Dimension of the Program of Study	1	2	3	4	5	
2.5.1	The program's collaborations with other institutions are compared positively with corresponding collaborations of other departments / programs of study in Europe and internationally.						X
2.5.2	The program attracts Visiting professors of recognized academic standing.						X
2.5.3	Students participate in exchange programs.						X
2.5.4	The academic profile of the program of study is compatible with corresponding programs of study in Cyprus and internationally.						X
<p>Justify the answer you have provided and note the additional comments you may have on each standard / indicator.</p>							

Also, comment on the degree the program compares positively with corresponding programs operating in Cyprus and abroad in higher education institutions of the same rank.

2.6	Connection with the labor market and the society	1	2	3	4	5
2.6.1	The procedures applied, so that the program conforms to the scientific and professional activities of the graduates, are adequate and effective.					x
2.6.2	According to the feasibility study, indicators for the employability of graduates are satisfactory.					x
2.6.3	Benefits, for the society, deriving from the program are significant.					x

Justify the answer you have provided and note the additional comments you may have on each standard / indicator.

3. RESEARCH WORK AND SYNERGIES WITH TEACHING						
3.1	Research - Teaching Synergies	1	2	3	4	5
3.1.1	It is ensured that teaching and learning have been adequately enlightened by research.					x
3.1.2	New research results are embodied in the content of the program of study.					x
3.1.3	Adequate and sufficient facilities and equipment are provided to support the research component of the program of study, which are available and accessible to the personnel and the students.					x
3.1.4	The results of the academic personnel's research activity are published in international journals with the peer-reviewing system, in international conferences, conference minutes, publications etc.					x

3.1.5	External, non-governmental, funding for the academic personnel's research activities, is compared positively to the funding of other institutions in Cyprus and abroad.					X
3.1.6	Internal funding, of the academic personnel's research activities, is compared positively to the funding of other institutions in Cyprus and abroad.					X
3.1.7	The policy for, indirect or direct, internal funding of the academic personnel's research activity is satisfactory.					X
3.1.8	The participation of students, academic, teaching and administrative personnel of the program in research activities and projects is satisfactory.					X
3.1.9	Student training in the research process is sufficient.					X
Justify the answer you have provided and note the additional comments you may have on each standard / indicator. See Annex 8						
4. ADMINISTRATION SERVICES, STUDENT WELFARE AND SUPPORT OF TEACHING WORK						
4.1	Administrative Mechanisms	1	2	3	4	5
4.1.1	There is a Student Welfare Service that supports students with regards to academic and personal problems and difficulties.					X
4.1.2	Statutory administrative mechanisms for monitoring and supporting students are sufficient.					X
4.1.3	The efficiency of these mechanisms is assessed on the basis of specific criteria.					X
Justify the answer you have provided and note the additional comments you may have on each standard / indicator. See Annex 6						
4.2	Infrastructure / Support	1	2	3	4	5
4.2.1	There are suitable books and reputable journals supporting the program.					X

4.2.2	There is a supportive internal communication platform.					x
4.2.3	The facilities are adequate in number and size.					x
4.2.4	The equipment used in teaching and learning (laboratory and electronic equipment, consumables etc) are quantitatively and qualitatively adequate.					x
4.2.5	Teaching materials (books, manuals, scientific journals, databases) are adequate and accessible to students.					x
4.2.6	Teaching materials (books, manuals, scientific journals, databases) are updated regularly with the most recent publications.					x
4.2.7	The teaching personnel are provided with training opportunities in teaching method, in adult education, and in new technologies on the basis of a structured learning framework.					x

Justify the answer you have provided and note the additional comments you may have on each standard / indicator.

See annex 4

4.3	Financial Resources	1	2	3	4	5
4.3.1	The management and allocation of the financial resources of the program of study, allow for the development of the program and of the academic / teaching personnel.					x
4.3.2	The allocation of financial resources as regards to academic matters, is the responsibility of the relevant academic departments.					x
4.3.3	The remuneration of academic and other personnel is analogous to the remuneration of academic and other personnel of the respective institutions in Cyprus.					x
4.3.4	Student tuition and fees are consistent to the tuition and fees of other respective institutions.					x

Justify the answer you have provided and note the additional comments you may have on each standard / indicator.

The University of Cyprus as a public university is governed by relevant legislation regulating financial management.

The following criterion applies additionally for distance learning programs of study.

5.	DISTANCE LEARNING PROGRAMS	1	2	3	4	5
5.1	Feedback processes for teaching personnel with regards to the evaluation of their teaching work, by the students, are satisfactory.					
5.2	The process and the conditions for the recruitment of academic / teaching personnel, ensure that candidates have the necessary skills and experience for long distance education.					
5.3	Through established procedures, appropriate training, guidance and support, are provided to teaching personnel, to enable it to efficiently support the educational process.					
5.4	Student performance monitoring mechanisms are satisfactory.					
5.5	Adequate mentoring by the teaching personnel, is provided to students, through established procedures.					
5.6	The unimpeded long distance communication between the teaching personnel and the students, is ensured to a satisfactory degree.					
5.7	Assessment consistency, its equivalent application to all students, and the compliance with predefined procedures, are ensured.					
5.8	Teaching materials (books, manuals, scientific journals, databases) comply with the requirements provided by the long distance education methodology and are updated regularly.					
5.9	The program of study has the appropriate and adequate infrastructure for the support of learning.					
5.10	The supporting infrastructures are easily accessible.					

5.11	Students are informed and trained with regards to the available educational infrastructure.						
5.12	The procedures for systematic control and improvement of the supportive services are regular and effective.						
5.13	Infrastructure for distance education is comparable to university infrastructure in the European Union and internationally.						
5.14	Electronic library services are provided according to international practice in order to support the needs of the students and of the teaching personnel.						
5.15	The students and the teaching personnel have access to the necessary electronic sources of information, relevant to the program, the level, and the method of teaching.						
5.16	The percentage of teaching personnel who holds a doctorate, in a program of study which is offered long distance, is not less than 75%.						

Justify the answer you have provided and note the additional comments you may have on each standard / indicator.

If the following apply, note “√” in the appropriate space next to each statement. In case the following statements do not apply, note what is applicable:

The maximum number of students per class-section, should not exceed 30 students.	
The conduct of written examinations with the physical presence of the students, under the supervision of the institution or under the supervision of reliable agencies which operate in the countries of the students, is compulsory.	
The number of long distance classes taught by the academic personnel does not exceed the number of courses taught by the teaching personnel in conventional programs of study.	

The following criterion applies additionally for doctoral programs of study.

6.	DOCTORAL PROGRAMS OF STUDY	1	2	3	4	5
6.1	The provision of quality doctoral studies is ensured through Doctoral Studies Regulations.					
6.2	The structure and the content of a doctoral program of study are satisfactory and they ensure the quality provision of doctoral studies.					
6.3	The number of academic personnel, which is going to support the doctoral program of study, is adequate.					
6.4	The doctoral studies' supervisors have the necessary academic qualifications and experience for the supervision of the specific dissertations.					
6.5	The degree of accessibility of all interested parties to the Doctoral Studies Regulations is satisfactory.					
6.6	The number of doctoral students, under the supervision of a member of the academic personnel, is apt for the continuous and effective feedback provided to the students and it complies with the European and international standards.					
6.7	The research interests of academic advisors and supervisors are satisfactory and they adequately cover the thematic areas of research conducted by the doctoral students of the program.					
<p>Justify the answer you have provided and note the additional comments you may have on each standard / indicator. See annex 8</p> <p>Note the number of doctoral students under the supervision of each member of the academic personnel of the program and the academic rank of the supervisor.</p>						



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION



Names and signatures of the Chair and the Members of the Internal Quality Committee.

Name:	Signature:
Georgios Nikolopoulos	
Gerasimos Filippatos	
Irene-Anna Diakidoy	

Date: 10/07/2019



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
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ANNEX 6 – DEGREE SAMPLE



The SENATE of the University of Cyprus, recognizing the successful fulfillment of all necessary academic requirements, and upon recommendation of the MEDICAL SCHOOL awards to

(name of student)

on this day (date) the

DEGREE OF

METHODS IN MEDICAL RESEARCH

and guarantees all the rights and privileges which result from this title.

The Degree awarded is validated with the seal of the University of Cyprus and the following signatures

RECTOR

CHAIR OF THE COUNCIL

DEAN OF MEDICAL SCHOOL