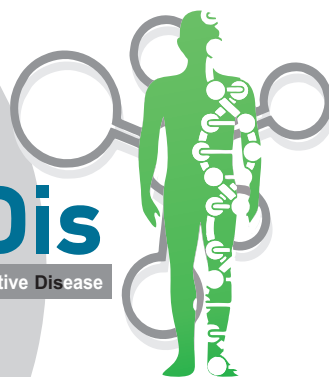


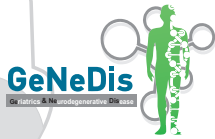


GeNeDis

Geriatrics & Neurodegenerative Disease



www.genedis.eu



GeNeDis 2016

Genetics, Health Aging and Mental Wellness in the new digital era

The Congress

The 2nd World Congress on Genetics, Geriatrics and Neurodegenerative Disease Research, GeNeDis 2016 will be held in Sparta (one of the most important Greek city-states throughout the Archaic and Classical periods), Greece, from **20 to 23 of October 2016**. The congress will focus on recent advances in genetics, geriatrics and neurodegeneration, ranging from basic science to clinical and pharmaceutical developments and will provide an international forum for the latest scientific discoveries, medical practices and care initiatives.

It is the second time that three of the most modern and popular scientific areas coexist in GeNeDis 2016, Genetics, Geriatrics and Neurodegenerative disease research.

Nobel laureates, leading scientists and experts, students, physicians and nurses, professionals and many others participants will discuss the latest major challenges, the new drug targets, the development of new biomarkers, the imaging techniques and novel protocols for early diagnosis of neurodegenerative diseases and several other scientific achievements.

While the European Union aims to strengthen the research and innovation towards Horizon 2020, the translational research for genetics, health aging and neurodegeneration will remove any barrier on multi-disciplinary collaboration. Novel approaches include biomarkers, stem cell therapy, protein misfolding, immunotherapy, as well as developments in our understanding of the genetics, the molecular mechanisms and signalling pathways contributing to neuronal dysfunction, nanotechnological products and innovative computational methods will offer new research directions and strategies on future preclinical and clinical studies on neurodegenerative diseases and related disorders, as well as improving of quality services on rehabilitation and health education.

Advanced information technologies will be discussed concerning the various research, implementation, and policy, as well as European and global issues in the funding of long-term care and medico-social policies regarding elderly people.

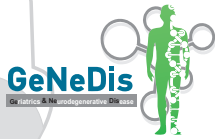
The congress aims to inform as well as to promote discussions and networking among scientists and stakeholders from worldwide medical field such as researchers, professors, doctors, nursing staff, hospitals, health and diagnostic centres, pharmaceutical companies etc.



The **major objectives** of the 2nd World Congress on Genetics, Geriatrics and Neurodegenerative Disease Research, **GeNeDis 2016** are the following:

- To promote the scientific and research results to the research community through sharing and exchanging ideas, experiences and expectations focusing on Genetics, Health Aging and Mental Wellness in the new digital era.
- To explore the beneficial (and not only) impact of scientific and technological achievements and future challenges, that may affect the Health Aging and Mental Wellness process.
- To enhance the co-operation and the exchange of experiences and resources among organizers of events and the research community, increasing further the European dimension and added value of the activities of the Europe 2020 and HORIZON 2020.
- To increase the interest of all the stakeholders in contributing to the research in the field as Mental health is a basic human right, and is fundamental to all human and social progress. It is a prerequisite to a happy and fulfilled life for individual citizens, starting at birth, for functioning families and for societal cohesion.





Expected outputs and results

The fundamental aim of GeNeDis 2016 is to highlight different visions for the “**Health Aging and Mental Wellness in the new digital era**” unveiling to the research community as well as the general public new horizons that are created thanks to the contribution of scientific and technological developments performed in the international research area in various fields within the specific sectors.

GeNeDis 2016 intends not only to recognize previous successes and ongoing work in neurodegenerative diseases and related disorders, but also to point out new research directions and strategies on future preclinical and clinical studies in this area.

Particularly, the expected outputs and results of the Congress could be summarized as follows:

- The latest major challenges in Genetics, Health Aging and Mental Wellness
- Novel biomarkers and new drug targets
- Novel protocols for early diagnosis of neurodegenerative diseases
- Better understanding of molecular aetiology and signalling pathways contributing to neuronal dysfunction
- New effective strategies and interventions such as stem cell therapy, protein misfolding, immunotherapy
- Novel imaging techniques
- Innovative nanotechnological techniques and products
- Improving of quality services on hospitalization, rehabilitation and health education

**The President of the Scientific Program Committee
Professor Panayiotis Vlamos**

**‘Ageing must be healthy in order to achieve
mental wellness and quality of life’**



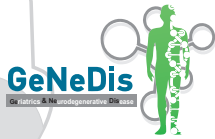
The Venue

The 2nd World Congress on Genetics, Geriatrics and Neurodegenerative Disease Research will be held in the University of Peloponnese which was founded in 2000 and is being developed at the level of complete Faculties in the five capitals of the Prefectures in the Region of Peloponnese.

With all modern amenities including Wi-Fi internet, modern audiovisual equipment and automatic interpretation systems can meet any expectation of professional conference or event.

Main Topics

- Geriatrics
- Cognition and memory
- Neurodegenerative Diseases
- RNA and Diseases
- Dementia
- Brain disorders
- Sleeping disorders
- Chronic diseases
- Mental Health
- Biopsychiatry
- Psychiatric disease
- Genomic and electrophysiology
- Transcriptome sequencing
- Clinical genetics and genomics
- System Biology
- Brain Physiology
- Diagnostic protocols and tests
- Nanotechnology
- Signal processing in Neurodegenerative diseases
- Biomedical text processing
- Genome engineering
- Clinical Neurophysiology
- Computational biology
- Computational epigenomics
- Big data and genome medicine
- Therapeutic applications of genome editing
- Stem cell research and development
- Neuroimaging
- Cell therapy
- Biomarkers
- Diagnostic of human disease biomarkers
- Gene expression analysis
- Neuropharmacology
- Pharmacogenetics



GeNeDis 2016

Genetics, Health Aging and Mental Wellness in the new digital era

Organizers



Bioinformatics and Human Electrophysiology Lab (BiHELab),

Ionian University, focus on recent advances in geriatrics and neurodegeneration, ranging from basic science to clinical and pharmaceutical developments.

BiHELab's goal is to build bridges from **data to models** and from **models to drug discovery and precision medicine** by fostering collaborations and developing original quantitative and qualitative approaches to biological and clinical problems.

Research at BiHELab focuses on **fundamental research in geriatrics and neurodegeneration**. Exploiting the power of a range of model organisms and the latest molecular, imaging and electrophysiological and computational technologies in neuroscience, BiHELab scientists explore some of the **key processes underlying neuronal function and behaviour**. Faculty research interests are relevant for understanding neurological diseases including Alzheimer's, Parkinson's, ALS, autism spectrum disorders, depression, anxiety, epilepsy and insomnias.

BiHELab interests lie within educational, research and development activities in the following main axes:

- Mitochondrial Biogenesis- Disruption of Mitochondrial Dynamics
- Amyloid- β Interaction and Metal Ions
- Evaluation of Mitochondrial Population as a Dynamic System
- Frequencies and Electromagnetic Analysis in the Mitochondrial population
- Cell Signalling and Autophagy
- Metal Ions Metabolism and mtDNA Analysis
- Regulation of Cancer Signalling Pathways
- Cellular Protein Network Collapses- Protein Misfolding and Aggregation Roles in Neurodegenerative Diseases
- Molecular Mechanisms and Signalling Pathways contributing to Neuronal Dysfunction

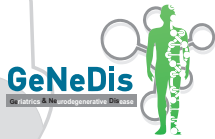


The electrophysiological laboratory houses **instruments for intra and extracellular recordings in vivo and in vitro**, and equipment for behavioural studies and equipment for both tethered and telemetric field potential recording.

The modern biophysics seems to offer powerful tools that are not yet been applied in bioengineering and molecular biology. The future of neuroscience relies **on novel approaches and technological advancements** in order to develop new drug targets, and novel protocols for early diagnosis of neurodegenerative diseases. At BiHELab, we are building on the information garnered from genomics and computational modelling analysis to **develop a systems approach to complex biological processes**.

CO-ORGANIZERS

- **CARGO lab, Wilfrid Laurier University, Waterloo, Ontario, Canada**
- **Region of Peloponnese, Greece**
- **University of Peloponnese, Greece**
- **Municipality of Sparta, Greece**
- **Computational Modeling Laboratory (CMODLab), Department of Informatics, Ionian University, Greece**
- **Department of History, Ionian University, Greece**
- **Technological Educational Institute of Ionian Islands, Greece**
- **Faculty of Human Movement and Quality of Life Sciences, Department of Sports Organization and Management, University of Peloponnese, Greece**
- **Department of Nursing, University of Peloponnese, Greece**



Keynote & Invited Speakers

George Paxinos, Scientia Professor, Neuroscience Research Australia

Stylianos Antonarakis, Professor Department of Genetic Medicine and Development
University of Geneva Medical School

Nektarios Tavernarakis, Director, Institute of Molecular Biology and Biotechnology,
Foundation for Research and Technology-Hellas & Professor of Molecular Systems, Biology
Medical School, University of Crete

Amos Korczyn, Professor Emeritus Department of Neurology, Tel Aviv University

Konstantinos Masselos, Professor in Computer Systems Design, Department of Informatics
and Telecommunications at University of Peloponnese, Rector University of Peloponnese

Dr. Andrea Paola Rojas, Assistant Professor of Biology and Biochemistry, Faculty of Human
Movement and Quality of Life Sciences, Department of Nursing

Panteleimon Giannakopoulos, Professor, University of Lausanne, MD Department of
Psychiatry, University of Geneva School of Medicine

Efstathios Gonos, , Director of Research, IUBMB Executive Committee Member for
Congresses and Conferences, National Hellenic Research Foundation, Institute of Biology,
Medicinal Chemistry and Biotechnology

Yapijakis Christos, Assistant Professor, University of Athens Medical School "Attikon"
Hospital

Demetzos Costas, Professor in Pharmaceutical Nanotechnology Dept. of Pharmaceutical
Technology, Faculty of Pharmacy National and Kapodistrian University of Athens, Greece

Eef Hogervorst, Professor of Biological Psychology, Loughborough University, Leicestershire,
UK

Panagiotis Bamidis, Associate Professor, Medical Education Informatics, Lab of Medical
Physics, Medical School, Aristotle University of Thessaloniki



John Haranas, VDG Research and Development in Electromagnetic Theory Applications, Department of Mathematics, East Carolina University, Greenville, North Carolina

Ilias Kotsireas, Professor, Physics & Computer Science, Department of Physics and Computer Science, Wilfrid Laurier University, Ontario, CANADA

Theodoros Arvanitis, Professor of e-Health Innovation, Head of Research at the Institute of Digital Healthcare, WMG, University of Warwick, co-Director of the West Midlands AHSN Digital Theme

Dimitrios Kapogiannis, Medical Doctor, Clinical Investigator, Laboratory of Neurosciences, National Institute on Aging (NIA/NIH)

Illir Qose, Project Manager Cooss Marche, Ancona Area, Italy International Affairs., COOSS Marche, ConsulEast Srl, Regione Marche., Università Politecnica delle Marche

Ioannis Gkigkitzis, Department of Mathematics, East Carolina University, North Carolina

Athanasios Chionis MD.Msc., Consultant Gynecologist at General University Hospital of Athens 'LAIKO', Clinical Director of Gynecological Ultrasound Department 'MITERA' Maternity Hospital, President of International Professional Union of Gynecologists and Obstetricians

Michael Harney, MS Bioinformatics, Sr. Data Architect, Health Catalyst, Salt Lake City, Utah

Ousama Salem Zraigat, Head of Club of Jordanian graduates Of Greek Universities

Marwan Yacoub Jmean, Head of Jordan Medical Association

Conference Program

THURSDAY 20 OCTOBER 2016	
11:00 - 16:00	HPL Registration
16:00 - 17:00	HPL Opening Ceremony Welcome Message from the President of the Programme Committee Welcome message from the Region of Peloponnese Welcome message from the Region of Ionian Islands Welcome message from the Municipality of Sparta Welcome message from the University of Peloponnese Welcome Messages from Scientific Associations and Supporters
17:00 - 17:40	HPL Chair: Panayiotis Vlamos Keynote Address George Paxinos , Professor, AO DSc FASSA FAA, NHMRC Australia Fellow, Neuroscience Research Australia, Sydney - Brain Behavior and evolution
17:40 - 18:20	HPL Chair: Panayiotis Vlamos Keynote Address Panteleimon Giannakopoulos , Professor, University of Lausanne, MD Department of Psychiatry University of Geneva School of Medicine, Switzerland - Alzheimer disease biomarkers: facing the complexity
18:20 - 19:00	HPL Discussion
19:00	HPL Opening Ceremony



FRIDAY 21 OCTOBER 2016		
09:00 - 09:40	<p>ATUP Chair: Christos Yapijakis Keynote Address Costas Demetzos, Professor of Pharmaceutical Nanotechnology, Faculty of Pharmacy, University of Athens, Greece - The thermodynamic mechanistic understanding of the behavior of liposomal drug delivery nanosystems</p>	
10:00 - 12:00	<p>Chair: Costas Demetzos, Nikolaos Naziris R1</p>	<p>Chair: Antonis Travlos, Athanasios Kriemadis, John Douvis, Chania Maria</p>
10:00 - 10:20	<p>Workshop: Study of anticancer drugs in nanotechnology: The liposome technology.</p>	
10:20 - 10:40	<p>Workshop: Managerial, Marketing, Financial, and Psychological dimensions of health services for the elderly: A systemic approach</p>	
10:40 - 11:00	<p>Organizers: Costas Demetzos, Professor of Pharmaceutical Nanotechnology, Faculty of Pharmacy, University of Athens, Greece</p>	<p>Organizers: Antonis Travlos, Athanasios Kriemadis, John Douvis, Panagiotis Dimitropoulos</p>
11:00 - 11:20	<p>Panagiotis Dimitropoulos., Teaching Staff, University of Peloponnese - Performance Management in Healthcare Organizations: Concept and Practicum</p>	<p>Athanasios Kriemadis, Professor of Strategic Planning in Sport Organizations - Quality Improvement In Health Services According To Deming Management Method</p>
11:20 - 11:40	<p>Nikolaos Naziris, Department of Pharmaceutical technology, Faculty of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens (UoA)</p>	

Conference Program

12:00 - 12:40	ATUP Chair: Teresinha Silva Keynote Address Ilias Kotsireas , Professor, Physics & Computer Science Wilfrid Laurier University, Department of Physics and Computer Science, Ontario, CANADA - Practicalities in high-performance computing and data mining		
12:40 - 14:00	BREAK		
14:00 - 14:40	ATUP Chair: Georgia Stratakou Keynote Address Michael Harney , Sr. Data Architect, Health Catalyst, Salt Lake City, Utah USA – Design of a Compensator Network To Stabilize Chaotic Tumor Growth		
14:40 - 15:20	ATUP Chair: Georgia Stratakou Keynote Address Dimitrios Kapogiannis , Clinical Investigator, Laboratory of Neurosciences, National Institute on Aging (NIA/NIH), USA • Baltimore – Extracellular Vesicle Leptin Receptor: a novel biomarker for diet response.		
15:20 - 17:20	Chair: Theodore Andronikos, Konstantinos Giannakis R1	Chair: Eef Hogervost R2	Chair: Antigoni Avramouli R2
15:20 - 15:40	Special Session: Natural, Unconventional, and Bio-inspired Algorithms and Computation Methods Workshop (NUBACoM 2016)	Maria Chania, General Hospital of Sparti -Post-operative delirium in elderly people - Diagnostic and management issues of post-operative delirium in elderly people	Panayiotis Vlamos, Professor , Department of Informatics - Stability areas for frailty functions



Conference Program

<p>15:40 - 16:00</p>	<p>Organizers: Theodore Andronikos, Dimitrios Tsoumakos, Konstantinos Giannakis</p> <p>Stavros Souravlas and Angelo Sifaleras Department of Applied Informatics, School of Information Sciences, University of Macedonia</p>	<p>Christos Plakiotis, MBBS, MD, FRANZCP, AFRACMA, Department of Psychiatry, School of Clinical Sciences at Monash Health, Monash University, Melbourne - Objective Structured Clinical Examination (OSCE) in Psychiatry Education: A Review of its Role in Competency-based Assessment</p>	<p>Ilias Kotsireas, Professor, Physics & Computer Science Wilfrid Laurier University, Department of Physics and Computer Science Ontario, CANADA - Neuronal Correlation Parameter the Idea of Thermodynamic Entropy of an N-Body Gravitationally Bounded System</p>
<p>16:00 - 16:20</p>	<p>- On the Detection of Overlapped Network Communities Via Weight Redistributions</p> <p>Dimitris Giampouris, Department of Informatics, Ionian University - Short Review on Quantum Key Distribution Protocols</p>	<p>Emmanouil Magkos, Associate Professor, Department of Informatics, Ionian University - Internet Addiction of Young Greek Adults: Psychological Aspects and Information Privacy</p>	<p>Teresinha Silva, Bioassays Laboratory for Pharmaceutical Research, Antibiotics Department, Biological Sciences Center, Federal University of Pernambuco, Recife, Brazil - Gold rods irradiated with ultrasound for combination of hyperthermia and cancer chemotherapy</p>
<p>16:20 - 16:40</p>		<p>Styliani Geronikou, Biomedical Research Foundation of Academy of Athens - Interactome of obesity – Obesidome</p>	<p>Swathi Konda, Medicinal Chemistry Laboratory, U.C.P.Sc., Kakatiya University, Telangana, India - Evaluation of Anti-Epileptic Effect of New Indole Derivatives by Estimation of Biogenic Amines Concentrations in Rat Brain</p>

Conference Program

16:40 - 17:00	<p>Dimitrios Kravvaris, Department of Informatics, Ionian University- Opinion Mining for Educational Video Lectures</p> <p>Josimar Chire and Yvan Tupac, Research Center in Computer Science, Universidad Catolica San Pablo - FP-AK-QIEA-R: a model inspired in particle filter, probability density function approximation and rewarding criteria</p>	<p>Maria Sagiadinou, Department of Informatics, Ionian University - Scheduling and Modeling a Cognitive Assessment Guide for Screening AD by Primary Care Physicians</p>	<p>Christos Yapijakis, Assistant Professor of Neurogenetics Department of Neurology, University of Athens Medical School, Eginition Hospital - Huntington disease: Genetics, prevention, and therapy approaches</p>
17:00 - 17:20	<p>Christos Plakiotis, MBBS, MD, FRANZCP, AFRACMA, Department of Psychiatry, School of Clinical Sciences at Monash Health, Monash University, Melbourne - Clinical simulation training in geriatric medicine: A review of the evidence and lessons for training in psychiatry of old age</p>	<p>Pavlos Rigas, Biomedical Research Foundation of the Academy of Athens - Spontaneous persistent neuronal network activity of the neocortex: a(n) (endo) phenotype of brain (patho)physiology</p>	
17:20 - 17:40	BREAK		
17:40 - 18:20	<p>Chair: Theodore Andronikos, Konstantinos Giannakis R1</p>	<p>Chair: Michael Harney DR1</p>	<p>Chair: Sotiris Fotiou R2</p>
17:40 - 18:00	<p>Special Session (continue):</p> <p>Stefanos Nikiforos, Department of Informatics, Ionian University - Bullying in Virtual Learning Communities</p>	<p>Dr. Athanasios Simoglou, Doctor and Composer - Follow up of main neurological diseases in a general practitioner Praxis (Stuttgart Germany) 3-years recruitment from 01.06.2013 to 01.06.2016</p>	<p>Styliani Geronikolou, and Dennis Cokkinos, Biomedical Research Foundation of Academy of Athens - Evaluating the Homeostasis assessment model insulin resistance and the Cardiac Autonomic System in bariatric surgery patients: a meta-analysis</p>



Conference Program

<p>18:00 - 18:20</p>	<p>Sozon Papavlassopoulos, Department of Archives and Library Sciences, Ionian University - Biobibliometrics & Gene Connections: The case of the BRAC1 and BRAC2 Genes</p> <p>Stavros Souravlas and Angelo Sifaleras, Department of Applied Informatics, University of Macedonia - Applying Modular Arithmetic Computations for Balancing the Load Over Computer Networks</p>	<p>Evangelos C. Fradelos, Department of Nursing, University of Peloponnese, Greece – Clinical, Social And Demographics Factors Associated With Spiritual Wellbeing In End Stage Renal Disease (Headquarters of Prefecture of Laconia)</p>	<p>Victoria Alikari, Laboratory of Nursing Research and Practice, Department of Nursing, Faculty of Human Movement and Quality of Life Sciences, University of Peloponnese – Fatigue in arthritis: a multidimensional phenomenon with impact on quality of life (Headquarters of Prefecture of Laconia)</p>
<p>18:20 - 19:00</p>	<p>Chair: Sofia Zyga DR2</p>	<p>Chair: Michael Harney DR1</p>	<p>Chair: Sotiris Fotiou R2</p>
<p>18:20 - 18:40</p>	<p>Jerousalem Mekonen, University of Peloponnese - Association of Type 1 Diabetes, Social Support, Illness and Treatment Perception with Health Related Quality of Life</p>	<p>John Stathoulis, MSc, PhD(c), Department of Nursing, Faculty of Human Move-ment and Quality of Life Sciences, University of Peloponnese - Evaluation of pulse oximetry knowledge of Greek registered nurses</p>	<p>Doru Anastasiu Popescu, University of Pitesti, Faculty of Mathematics and Computer Sciences, Romania - Approaches on generating optimized sequences of items used in assessment</p>

Conference Program

18:40 - 19:00	<p>Dr. Andrea Paola Rojas, Assistant Professor of Biology and Biochemistry, Faculty of Human Movement and Quality of Life Sciences, Department of Nursing - Correlations between nutrition habits, anxiety and metabolic parameters in Greek healthy adults</p>	<p>Konstantinos Koronios, University of Peloponnese - Sport Participation and Ageing: Evidence from a marathon event</p>	<p>Nikolaos Kapodistrias, Oncologist - MiR-140-3p downregulation in association with PDL-1 overexpression in many cancers. A review from the literature using predictive bioinformatics tools.</p>
19:00 - 19:40	<p>ATUP Chair: Chania Maria Keynote Address Amos D Korczyn, Professor, Department of Neurology Tel Aviv University, Israel – Is genetic dementia a good model for sporadic late-onset Alzheimer’s disease?</p>		
19:40 - 20:20	<p>ATUP Chair: Chania Maria Keynote Address Christos Yapijakis, Assistant Professor of Neurogenetics Department of Neurology, University of Athens Medical School, Eginition Hospital - Cerebral thrombosis: A neurogenetic approach</p>		

SATURDAY 22 OCTOBER 2016

Conference Program

SATURDAY 22 OCTOBER 2016			
09:00 - 09:40	ATUP Chair: Doru Anastasiu Popescu Keynote Address Eef Hogervost , Professor of Biological Psychology, Loughborough University, Leicestershire, UK - Diagnoses of dementia using cross culturally applicable tests		
09:40 - 10:20	ATUP Chair: Doru Anastasiu Popescu Keynote Address Dr. Andrea Paola Rojas , Assistant Professor of Biology and Biochemistry, Faculty of Human Movement and Quality of Life Sciences, Department of Nursing – Gene-nutrient interaction and prevention of chronic diseases in older adults		
10:20 - 10:40	BREAK		
10:40 - 11:40	Chair: Adamantia Pateli R1	Chair: Valia Kalaitzi DR1	Chair: Antonia Plerou, Spyros Doukakis R2
10:40 - 11:00	Christos Plakiotis , MBBS, MD, FRANZCP, AFRACMA, Department of Psychiatry, School of Clinical Sciences at Monash Health, Monash University, Melbourne, Victoria, Australia - Psychodynamic Leadership Approach and Leader-Member Exchange (LMX): A psychiatric perspective on two leadership theories and implications for training future psychiatrist leaders	Workshop: Alfavitos Live: a health literacy paradigm in the Greek elderly population Organizers: Valia Kalaitzi, Kristine Sorensen, Despoina Paspala, Giorgos Mpardis	Special Session: Reframing Cognitive Enhancement Perspectives Organizers: Antonia Plerou, Spyros Doukakis, Panayiotis Vlamos,

Conference Program

11:00 - 11:20	<p>Teresinha Silva, Bioassays Laboratory for Pharmaceutical Research, Antibiotics Department, Biological Sciences Center, Federal University of Pernambuco, Recife, Brazil - Preclinical Validation of the Located Hyperthermia Using Gold Macro-Rods and Ultrasound as an Effective Treatment for Solid Tumors</p>	<p>Alfavitos Live: a health literacy paradigm in the Greek elderly population – Workshop (continues)</p>	<p>Georgia Stratakou, M.Res., University of Birmingham, UK- Cognition enhancement for elderly facing dementia with the use of cognitive rehabilitation therapy techniques and psychological treatment. A case study</p> <p>Antonia Plerou, Bioinformatics and Human Electrophysiology Lab, Department of Informatics, Ionian University - Effectiveness of Neurofeedback Training in Algorithmic Thinking Skills Enhancement</p>
11:20 - 11:40	<p>Swathi Konda, Medicinal Chemistry Laboratory, U.C.P.Sc., Kakatiya University, Telangana, India - Development of Novel Indole Molecules for the Screening Of Anti-inflammatory Activity</p>	<p>Workshop (continues)</p>	<p>Spyros Doukakis, Giannis Stamatellos, Nektaria Glinou - Cognition enhancement using ICT and its ethical implications</p>
11:40 - 12:40	<p>Chair: Georgia Theocharopoulou R1</p>	<p>Chair: Antigoni Avramouli DR1</p>	<p>Antonia Plerou, Bioinformatics and Human Electrophysiology Lab, Department of Informatics, Ionian University - EEG Analysis of the Neurofeedback Training Effect in Algorithmic Thinking.</p>
11:40 - 12:00	<p>Professor Nikitas Assimakopoulos and Nikitas-Belmar Mahmudi, Department of Informatics, University of Piraeus - Business Dynamics for a Pharmaceutical Company with the use of Business Model Canvas, Systemic Methodologies and their relevant software: DCSYM, VENSIM, FORIO</p>	<p>Konstantina Skolariki, University of Surrey, United Kingdom – The use of translational research platforms in clinical and biomedical data exploration</p>	



Conference Program

12:00 - 12:20	<p>Styliani Geronikolou, Biomedical Research Foundation of Academy of Athens</p> <p>- Bioimpedance measurements in adolescents with polycystic ovary syndrome : a pilot study</p>	<p>Eleftheria Polyxronidou, Department of Informatics, Ionian University.</p> <p>- Chronic Lymphocytic Leukemia patient clustering based on somatic hypermutation (SHM) analysis</p>	<p>Special Session: Reframing Cognitive Enhancement Perspectives – Session (Continues)</p>
12:20 - 12:40	<p>Christos Plakiotis, MBBS, MD, FRANZCP, AFRACMA, Department of Psychiatry, School of Clinical Sciences at Monash Health, Monash University, Melbourne, Victoria, Australia</p> <p>- Programmatic Assessment of Professionalism in Psychiatry Education: A Literature Review and Implementation Guide</p>	<p>Kalliopi Kastampolidou, Department of Informatics, Ionian University</p> <p>- A new class of restricted quantum membrane automata</p>	
12:40 - 14:00	BREAK		
14:00 - 14:40	<p>ATUP Chair: Stylianni Geronikolou Keynote Address Theodoros N. Arvanitis, Professor, RT, DPhil, CEng, FRSM, Chair in e-Health Innovation and Head of Research, Institute of Digital Healthcare, WMG, University of Warwick, United Kingdom</p> <p>- Radiomics for the Characterization of Childhood Brain Tumors: MR Textural Features as Diagnostic and Prognostic Biomarkers.</p>		
14:40 - 15:20	<p>ATUP Chair: Stylianni Geronikolou Athanasios D. Chionis, MD.MSc., President of International Professional Union of Gynecologists and Obstetricians</p> <p>- Menopausal hormone therapy and dementia</p>		
15:20 - 17:20	<p>Chair: Phivos Mylonas Konstantinos Karpouzis Ilias Maglogiannis R1</p>	<p>Chair: Konstantinos Giannakis DR1</p>	<p>Chair: Emmanouil Magkos R2</p>

Conference Program

15:20 - 15:40	<p>Special Session: Intelligent Humanistic Health-care Technologies</p> <p>Organizers: Phivos Mylonas, Konstantinos Karpouzis, Ilias Maglogiannis</p>	<p>Georgia Theocharopoulou, Department of Informatics, Ionian University – Molecular Chaperones in Neurodegenerative Diseases: a short review</p>	<p>Georgios Lympieropoulos, Electrical Engineer, Department of Electrical Engineering, School of Engineering, University of Southern California, USA - Application of Theranostics in Oncology</p>
15:40 - 16:00	<p>Phivos Mylonas, Associate Professor, Department of Informatics, Ionian University - Exploring the notion of context in medical data</p>	<p>Catherine Bobori, Department of Informatics, Ionian University - Diagnostic Evaluation of Huntington's Disease Within the Frame of Bioinformatics</p>	<p>Sotirios Fotiou, Department of Informatics, Ionian University - Mobile applications improve quality of life on citizens with disorientation: The 'NeverLost App' paradigm</p>
16:20 - 16:40	<p>Stella Christopoulou, Business Administration Dpt., TEI Peloponnese, Kalamata - vhMentor: An ontology supported mobile agent system for pervasive health care monitoring</p>	<p>Georgia Theocharopoulou, Department of Informatics, Ionian University – Formal models of Biological Systems</p>	<p>Dr. Maria Psiha, Department of Informatics, Ionian University - IoT Applications with 5G connectivity in Medical Tourism Sector Management: Third-party Service Scenarios</p>
16:40 - 17:00	<p>Ilias Maglogiannis, Assistant Professor, Department of Digital Systems, University of Piraeus - A DICOM based collaborative platform for real-time medical tele-consultation on medical images</p> <p>Vassiliki Iconomidou, Department of Cell Biology and Biophysics, Faculty of Biology, University of Athens -</p>	<p>Efstathia Kalli, Department of Informatics, Ionian University - Association of nutrients with biomarkers of Alzheimer's disease</p>	<p>Georgios Lympieropoulos, Electrical Engineer, Department of Electrical Engineering, School of Engineering, University of Southern California, USA - Applications for Electrical Impedance Tomography (EIT) and Electrical Properties of the Human Body</p>



Conference Program

<p>17:00 - 17:20</p>	<p>Exploring amyloidogenicity of Clusterin: a structural and bioinformatics analysis</p> <p>Theodoros Giannakopoulos, Evangelos Spyrou, Institute of Informatics and Telecommunications, National Center for Scientific Research "Demokritos"</p> <p>-Recognizing Emotional States using Convolutional Neural Networks and Speech Information</p>	<p>Antigoni Avramouli, Molecular Biologist, Department of Informatics, Ionian University – Integrating Omic Technologies in Alzheimer’s Disease</p>	<p>Adamantia Pateli, Department of Informatics, Ionian University – Smart Health Caring: a systematic review of smart home care for elders and chronic disease patients</p>
<p>17:20 - 17:40</p>	<p>BREAK</p>		
<p>17:40 - 18:20</p>	<p>ATUP Chair: Styliani Geronikolou Keynote Address Dr. Efstathios Gonos, Director of Research, IUBMB Executive Committee Member for Congresses and Conferences, National Hellenic Research Foundation, Institute of Biology, Medicinal Chemistry and Biotechnology - Genetic and environmental factors of human aging and longevity</p>		
<p>18:20 - 19:20</p>	<p>Chair: Phivos Mylonas Konstantinos Karpouzis Ilias Maglogiannis R1</p>		
<p>18:20 - 18:40</p>	<p>Special Session (continue): Rashid Mehmood, National University of Science and Technology (NUST), Islamabad, Pakistan - Real Time 3D Representation and Tracking of Guidewire for Image Guided Cardiovascular Interventions</p>		
<p>18:40 - 19:00</p>	<p>Christos Panagopoulos, BioAssist S.A., Patras - Utilizing a Homecare Platform for Remote Monitoring of Patients with Idiopathic Pulmonary Fibrosis</p>		



Conference Program

19:00 - 19:20	Konstantinos Michalakis and George Caridakis , Department of Cultural Technology and Communication, Aegean University University Hill, Mytilene - IoT Contextual Factors on Health Care
19:20 - 20:00	ATUP Chair: Maria Psiha Keynote Address Nektarios Tavernarakis , Professor of Molecular Systems, Biology Medical School, University of Crete - Autophagy in the central nervous system: Signaling pathways, adaptive plasticity and neurodegeneration
20:00 - 20:40	ATUP Chair: Maria Psiha Keynote Address Panagiotis D. Bamidis , Assoc. Prof., Medical Education Informatics, Lab of Medical Physics, Medical School, Aristotle University of Thessaloniki - Functional connectivity networks and the evolution of cognitive decline through EEG recordings and combined cognitive/physical training: a roadmap towards precision medicine
21:00	Gala Dinner



SUNDAY 23 OCTOBER 2016	
10:00 - 10:40	<p>HPL Chair: Swathi Konda Keynote Address Ilir Qose, Project Manager Cooss Marche, Università Politecnica delle Marche - Mobility in Health & Care</p>
10:40 - 11:00	BREAK
11:00 - 12:00	<p>HPL Special Session: On human enhancement and genome editing: the scope of Art & Science</p> <p>Organizers: Dalila Honorato, Antonia Plerou</p> <p>Gina Giotaki, Senior Lecturer, Liverpool John Moores University, Liverpool, UK - Dance, Aging and Mental Wellness: Approaches to Practice in the UK.</p> <p>Nelina Angelova, Department of Informatics, Ionian University, Corfu, Greece - Searching for correlations between the development of neurodegenerative hallmarks: targeting huntingtin as a contributing factor</p>
12:00 - 14:40	<p>Chair: Andrea Paula Rojas Gil HPL</p>
12:00 - 12:20	<p>Evangelos Fradelos, Department of Nursing, University of Peloponnese, Greece – Moderating nutritious habits in psychiatric patients using Transtheoretical Model of Change and Counseling</p>
12:20 - 12:40	<p>Ioanna Papathanasiou, Department of Nursing, Technological Educational Institute of Thessaly, Larissa, Greece – Health and Dietary Supplements</p>
12:40 - 13:00	<p>Victoria Alikari, Laboratory of Nursing Research and Practice, Department of Nursing, University of Peloponnese - Assessment of depression in elderly. Is perceived social support related? A nursing home study</p>
	<p>HPL</p> <p>Poster Presentations Session:</p> <p>Christos Yapijakis, Assistant Professor of Neurogenetics Department of Neurology, University of Athens Medical School, Eginition Hospital - Neurofibromatosis 1-Noonan syndrome: A possible paradigm of the combination of genetic and epigenetic factors</p> <p>Parthenopi Ktistaki, Department of Nursing, University of Peloponnese - Long-term survival of women with breast cancer. Overview of evaluation tools for support needs</p>

Conference Program

13:00 - 13:20	<p>Ioanna V. Papathanasiou, Department of Nursing, Technological Educational Institute of Thessaly, Larissa, Greece – Anxiety and Depression in Staff of Mental Units: The Role of Burnout (Headquarters of Prefecture of Laconia)</p>	<p>Dr. Maria Psiha, Department of Informatics, Ionian University - Efficient Health Information Management based on Patient-Generated Digital Data</p>
13:20 - 13:40	<p>Helen Bakola, RN, PhD(c), Department of Nursing, Faculty of Human Movement and Quality of Life Sciences, University of Peloponnese - Musculoskeletal problems among Greek perioperative nurses in regional hospitals in southern Peloponnese</p>	<p>Evangelos C. Fradelos, Department of Nursing, University of Peloponnese, Greece – Moderating nutritious habits in psychiatric patients using Transtheoretical Model of Change and Counseling</p> <p>Maria Lavdaniti, Associate Professor, Nursing Department, Alexander Technological Educational Institute of Thessaloniki - Quality of life in elderly bladder cancer patients following a cystectomy</p>
13:40 - 14:00	<p>Aikaterini Kargakou, Department of Nursing, University of Peloponnese, Greece – Does health perception, dietary habits and lifestyle effect optimism? A quantitative and qualitative study</p>	<p>Maria Lavdaniti, Associate Professor, Nursing Department, Alexander Technological Educational Institute of Thessaloniki - Quality of life in elderly cancer patients undergoing chemotherapy</p> <p>Ioannis Gkigkitzis, Department of Mathematics, East Carolina University, Greenville, North Carolina - Determination of Soft Tissue Breakpoint Based on its Temperature Enhancement Pattern: In vivo and in vitro experiments</p> <p>Styliani Geronikou, Biomedical Research Foundation of Academy of Athens - SSEv: A new small samples evaluator, based on modified survival curves and its web-based application</p>



Conference Program

14:00 - 14:20	<p>HPL Chair: Panayiotis Vlamos Keynote Address John Haranas, VDG REsearch and Development in Electromagnetic Theory Applications, Toronto, ON, Canada External Research Collaborator, Department of Mathematics, East Carolina University, Greenville, North Carolina - A Paris system-based implant approach to hyperthermia cancer tumor with gold seeds and ultrasound</p>
14:20 - 14:40	<p>HPL Chair: Panayiotis Vlamos Keynote Address Ioannis Gkigkitzis, Department of Mathematics, East Carolina University, Greenville, North Carolina - Biological Relevance of Network Architecture</p>
15:00	<p>HPL Closing Ceremony</p>

HPL : Headquarters of Prefecture of Laconia

ATUP : Amphitheater of University of Peloponnese

R1 : Room 1of University of Peloponnese

R2 : Room 2of University of Peloponnese

DR1 : Discussion Room 1of University of Peloponnese

DR 2: Discussion Room 2of University of Peloponnese



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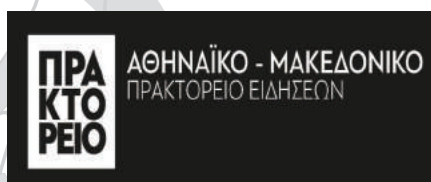
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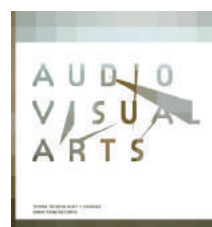
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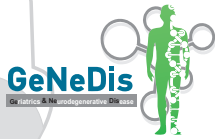


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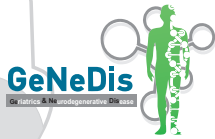
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Sakka Paraskevi, Chairman of Athens Alzheimer's Association, Dementia Society, Greece

Sioutas Spyros, Associate Professor, Department of Informatics, Ionian University, Greece

Stergioulas Apostolos, Professor of Biology of Exercise, Department of Sports Organization and Management, Faculty of Human Movement and Quality of Life Sciences, University of Peloponnese

Tarnanas Ioannis, Senior Researcher at the University of Bern, Switzerland, Gerontechnology and Rehabilitation group at the ARTORG Center for Biomedical Engineering Research

Tiligadis Konstantinos, Assistant Professor, Department of Audio and Visual Arts, Ionian University, Greece

Travlos Antonios, Associate Professor, Sport Psychology & Motor Learning, Head of The Department of Sports Organization and Management at the Faculty of Human Movement and Quality of Life Sciences, University of Peloponnese

Tsantili-Kakoulidou Anna, Professor, Department of Pharmaceutical Chemistry. National & Kapodistrian University Athens Greece

Tsolaki Magda, Professor, Aristotle University of Thessaloniki, Chair of Greek Federation of AD

Tzavella Foteini, Lecturer in Health Sociology, Nursing Department, University of Peloponnese

Tziaferi Styliani, Assistant Professor in Community Nursing, Nursing Department, University of Peloponnese

Tzortzi Anna, MD, FCCP, Pulmonologist Associate Director "Institute of Public Health"-American College of Greece, Scientific Director "George D Behrakis RESEARCH LAB"-Hellenic Cancer Society

Vassilakis Costas, Associate Professor, Department of Informatics and Telecommunications, University of Peloponnese

Vrondou Ourania, Assistant Professor of Sport Tourism, Department of Sports Organization and Management, Faculty of Human Movement and Quality of Life Sciences, University of Peloponnese

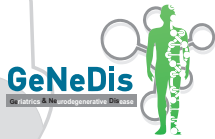
Wallace Manolis, Department of Informatics and Telecommunications, University of Peloponnese

Yapijakis Christos, Assistant Professor of Neurogenetics Department of Neurology, University of Athens Medical School, Attico Hospital

Zalonis Ioannis, Assistant Professor National and Kapodistrian University of Athens, President of the Hellenic Neuropsychological Society

Zouganelis George, Lecturer in Biochemistry, Bournemouth and Poole College, United Kingdom

Zyga Sofia, Associate Professor in Fundamentals of Nursing, Nursing Department, University of Peloponnese



CV Keynote and Invited Speaker

George Paxinos

Prof George Paxinos completed his BA at The University of California at Berkeley, his PhD at McGill University, and spent a postdoctoral year at Yale University. He and Charles Watson are the authors of *The Rat Brain in Stereotaxic Coordinates*. With over 50,000 citations across its 7 Editions (March 2014), it is the third most cited book in science after *Molecular Cloning* and the *Diagnostic and Statistical Manual of Mental Disorders*. Prof Paxinos has also published another 45 books on the structure of the brain of humans and experimental animals, his most recent being *MRI/DTI Atlas of the Rat Brain*. His work was recognised by an AO, Ramaciotti Medal, Humboldt Prize, a \$4 million NHMRC Australia Fellowship and the NSW Premier's Prize for Excellence in Medical Biological Sciences in 2015. He is a Fellow of the Australian Academy of Science, the Academy of Social Sciences in Australia and a corresponding member of the Academy of Athens. His novel *Κατ' Εικόνα* (In His Image) was published in Greek in 2015 (English version pending).

Panteleimon Giannakopoulos

Prof. P. Giannakopoulos, born in Athens, Greece in 1965, where he achieved his education and medical studies before specializing at the Faculty of Medicine in Geneva where he graduated as privat docent in 1997. In 1999 he achieved the board certification as specialist in psychiatry and psychotherapy followed in 2008 by the board certification in Old Age psychiatry and psychotherapy and in 2010 he added the Board certification in Liaison psychiatry. In 2005, he becomes Head of the Psychiatry Department of the Geneva University Hospital. Prof. P. Giannakopoulos developed an early interest in Dementia as well as in Alzheimer Disease which led him to be granted several times by the Swiss National Fund for Research since 1994. The ongoing work at the Faculty of Medicine at the Geneva University is a patient-oriented research together with a translational research addressing the following topics:

- Patient-oriented research,
- Identification of EEG markers of cognitive decline in mild cognitive impairment,
- Identification of biological and neuropsychological markers of cognitive decline in elderly patients with late-onset depression and bipolar disorders,
- Cognitive impact of vascular lesions in brain aging
- Translational research,
- Stereological assessment of AD-related lesions, neuronal and synaptic loss and establishment of clinicopathological correlations in the oldest-old,
- Use of recombinant clusterin to prevent ischemic damage in organotypic cultures and after middle cerebral artery occlusion.

Furthermore, a European research fund has granted prof. P. Giannakopoulos together with other main researchers in the topic of the identification of functional and structural biomarkers of AD.

Costas Demetzos

Costas Demetzos is Professor of Pharmaceutical Nanotechnology in the University of Athens. He also serves as Director of the Laboratory of Pharmaceutical Technology, as President of the Hellenic Pharmaceutical Society and is an elected Member of EUFEPS' ExCo (Network Coordinator). His research interest is primarily on Pharmaceutical Nanotechnology (lipidic, polymeric and mixed drug delivery nanosystems), Physical Pharmacy, Pharmaceutical Compounding and Regulatory Aspects. He has published more than 200 research papers, one monograph, co-authored one book and edited three books. He has also been awarded in Pharmaceutical congresses and from the Hellenic Society of Biomaterials for his contribution on the application of bionanomaterials.

The innovation of his research, apart from being in numerous publications and announcements in international scientific journals and conferences, has led to awards of international and national patents in Greece and in many European countries, USA, Australia, having as main objects the nanotechnological drug delivery systems and nanodevices. His research work has international recognition and there are more than 3.000 cross references related to his research (h index 29). Being a scientific director he participates in national and European research programs. He has concluded many scientific collaborations internationally and within the Greek scientific community. His participation in the European COST programs helped in the mobility of his students and his lab members to Europe. Prof. Costas Demetzos is well known for his research activity in the field of Pharmaceutical Nanotechnology and for this reason he has been and still is invited for lectures and speeches in



international scientific conferences, while he collaborates with a great number of scientists in European level, in the field of Nanotechnology. He teaches in the Faculty of Pharmacy of the University of Athens since 1991, initially Chemistry of Natural products and following in 2002 he teaches his main subject, Pharmaceutical Nanotechnology and Pharmaceutical Physics in undergraduate and postgraduate level. He was responsible for dozens of PhD students and their theses, Master's Diplomas and Undergraduate Dissertations. Also, he has been invited to teach Pharmaceutical Nanotechnology in other Greek Universities. It must be mentioned that he participates as a member of Organizing Committees but also as a president of International and European scientific Conferences, while being an evaluator in many committees like the Greek Ministry of Health, the Qualification Recognition Board in Cyprus, the Greek National Scholarships Foundation, the Greek Drug Administration Office, etc.

Ilias Kotsireas

Ilias Kotsireas is a Full Professor of Computer Science at Wilfrid Laurier University, in Waterloo, Ontario, Canada. He is also the Director of the CARGO Lab. He has over 100 refereed publications, edited books and special issues of journals in the areas of Computational Algebra, Metaheuristics, Dynamical Systems and Combinatorial Design Theory. He serves on the Editorial Board of 7 international journals published by Elsevier and Springer. He has organized a large number of international conferences in Europe, North America and Asia, often serving as General Chair. His research work has gathered approximately 700 citations. His research is and has been funded by NSERC and the European Union. He has received funding for conference organization from Maplesoft, the Fields Institute and several Wilfrid Laurier University offices. He was elected Chair of ACM SIGSAM and serves a 4-year term 2013-2017.

Amos D. Korczyn

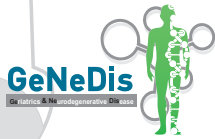
Professor Amos D. Korczyn is the Sieratzki Professor of Neurology at Tel-Aviv University. Professor Korczyn graduated from the Hebrew University – Hadassah Medical School in Jerusalem in 1966 (MD), where he also received an MSc degree in pharmacology (cum laude) in 1966. He trained in neurology at Beilinson Hospital and at the National Hospital for Nervous Diseases in Queen Square, London. He was the Chairman of the Department of Neurology at the Tel-Aviv Medical Center since 1981 until 2002. Professor Korczyn has a particular interest in dementia. He has authored or co-authored over 600 articles in peer-reviewed journals, as well as chapters in books, etc. Professor Korczyn is or has been an Editorial Board member of 15 international journals, and organized several neurological conferences, mainly in the field of dementia, Parkinson's disease and other degenerative brain disorders.

Christos Yapijakis

Christos Yapijakis is Assistant Professor of Neurobiology and Neurogenetics at the School of Medicine of the University of Athens at "Attikon" Hospital, Director of Cephalogenetics Center, and Advisor Board Member of the Research Laboratory of Applied Philosophy at the School of Philosophy of the University of Athens. He has been the first in Greece establishing pioneer of university and private laboratories of Molecular Neurogenetics and Orofacial Genetics. His research involves the molecular mechanisms of neurological and orofacial hereditary disorders, in addition to genetic counseling and molecular diagnosis. He has performed prenatal testing for more than ten genetic disorders, including some for the first time worldwide. He has co-authored more than 100 publications in international journals and books, his group has received various national and international funding grants, and he has served as an editorial board member in international journals of several fields.

Eef Hogervost

Eef Hogervost is an internationally renowned expert in psychoneuroendocrinology. Eef did her PhD at Maastricht and was subsequently employed (as Blasschko Fellow and then Research Scientist) at the University of Oxford for 5 years working as a neuropsychologist and epidemiologist. She was awarded several grants, fellowships and prizes for her research into the association between hormones and cognitive decline/dementia. She has also worked as a Research Associate Professor at the Donald W. Reynolds Department of Geriatrics (ranked 8th nationally) of the University of Arkansas Medical Sciences USA to investigate rural ageing and memory with hormone expert neurologist Prof Henderson and at the University of Cambridge (Department of Psychiatry, with Profs Huppert and Brayne) as Senior Research Associate, before she obtained a Chair in Biological Psychology at Loughborough University. She is Visiting Professor at the University of Trisakti Jakarta and Adjunct Professor at the University of Indonesia where she works for the Center for Aging Studies to investigate risk and protective factors for dementia in multi ethnic Indonesian cohorts. She has set-up collaborations with several other large multi-centre observational and treatment studies for age-related cognitive decline and dementia (EPIC NORFOLK and MRC-CFAS in the U.K. and the H-ABC, WHIMS and KEEPS studies in the U.S.A) and this work is now also extended to China (Shanghai). She is often invited as a key-note speaker at major international conferences (World Conference on Menopause as chair and keynote speaker 2011 and 2014, European (2012, 2010) and North American Menopause Conferences, ISSAM,



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Aging Male, Alzheimer's Association ICAD meeting etc to speak about her work in hormones. She has over 200 international peer-reviewed publications and was cited 4152 times. She has received funding from NDA, i4i, Research into Ageing/Help the Aged, Nederlandse Hersenstichting, Alzheimer's Association, MRC, BMS & other industry, and sits on several editorial boards (JAD, JADP etc.) and grant review bodies (EUR-AGE, Horizon, MRC etc)

Ioannis Gkigkitzis

Ioannis Gkigkitzis received his first PhD in Mathematics from Columbia University in 2007, his second PhD in Biomedical Physics from East Carolina University in 2012 and he is currently a teaching assistant professor of Mathematics at East Carolina University and a postdoctoral researcher at Wake Forest School of Medicine, Department of Radiology. His research addresses two broad topics: mathematical and experimental medicine and biology; and geometric analysis and theoretical physics. At present, his research is focused in three areas: (a) medical imaging techniques used in radiology, (b) cancer treatment modalities, (c) gravity, information and geometric evolution equations. He is the co-inventor of cancer treatment modality approved for laboratory experiments on human subjects by the Brazilian Research Ethics Committee. Cancer Hospital, Pernambuco, 2015. He has been an active member of several committees and institutes that foster the advancement of research and education in science, such as the AIBS and the IEEE. He has more than 35 peer reviewed articles published and he is the author of one book. He has served as editor for five journals.

Theodoros Arvanitis

Theodoros Arvanitis is a Professor of e-Health Innovation and Head of Research at the Institute of Digital Healthcare, WMG, at University of Warwick. He also holds the post of co-Director of the West Midlands AHSN Digital Theme. He received his RT (BSc) degree (medical radiological technology) in 1990, from the Technological Educational Institute of Athens, Greece, and his DPhil (biomedical engineering) in 1997 from the University of Sussex, UK. His postdoctoral work at the University of Sussex included a lab director/research fellow post at the Trafford Centre for Medical Research (1995) and a full-time lectureship in the School of Cognitive and Computer Sciences (1995-1998). In 1998, he joined the School of Electronic, Electrical & Computer Engineering, University of Birmingham, UK, as a full-time Lecturer (1998-2003), Senior Lecturer (2003-2007) and subsequently Reader in Biomedical Informatics, Signals and Systems (2007-2013). His research interests span the areas of biomedical engineering, neuroimaging and health informatics.

Efstathios Gonos

Dr Efstathios Gonos graduated from the University of Athens, Greece, obtained his Ph.D. from the University of Glasgow, Britain and a Docent at the Orebro University, Sweden. He worked at the Ludwig Institute for Cancer Research in London, Britain and he is now Director of Research at the National Hellenic Research Foundation in Athens, Greece. DrGonos' research activities focus on the genetic and environmental factors that are linked to human aging and longevity. He is member of the Executive Committee of International Union of Biochemistry and Molecular Biology (IUBMB), member of the Advanced Course Committee of Federation of European Biochemical Societies (FEBS) and Associate Editor of "Mechanisms of Aging & Development".

Nektarios Tavernarakis

Nektarios Tavernarakis is a bioscientist, who studies Ageing, Cell death, and Neurodegeneration. He is currently Professor of Molecular Systems Biology at the Medical School of the University of Crete, and the Director of the Institute of Molecular Biology and Biotechnology, at the Foundation for Research and Technology, in Heraklion, Crete, Greece, where he is heading the Neurogenetics and Ageing laboratory. His work has received several prominent awards and scientific prizes, including two European Research Council (ERC) Advanced Investigator grant awards (in 2008 and 2016), the EMBO Young Investigator award, the International Human Frontier Science Program (HFSP) long-term postdoctoral fellowship, the BioMedical Research Award of the Academy of Athens, the Valergakis Post-Graduate Award of the Hellenic University Club of New York, the Bodossaki Foundation Scientific Prize for Medicine and Biology, the Alexander von Humboldt Foundation, Friedrich Wilhelm Bessel research award, the Research Excellence award of the Foundation for Research and Technology, and the Empeirikeion Foundation Academic Excellence Prize, among others.

Panagiotis Bamidis

Panagiotis Bamidis is currently Assoc. Prof. in the Lab of Medical Physics, Medical School of the Aristotle University of Thessaloniki, Greece. He has founded and has been leading four research groups, namely, in Medical Education Informatics, in Assistive Technologies and Silver Science, in Applied and Affective Neuroscience, and in Health Services Research. In the



last 6 years, he has been the co-ordinator of five large European projects (SmokeFreeBrain.org; www.meducator.net; www.longlastingmemories.eu, www.epblnet.eu, www.childrenhealth.eu) as well as the principal investigator for a number of national and international funded projects. His publication record consists of more than 85 international refereed journal papers, and over 300 international peer reviewed conference papers, as well as several book chapters / edited conference proceedings volumes and over some 1000 citations (h-index>19). In addition, he has been acting as a referee in more than 30 journals, and as Guest Editor in more than 20 journal special issues. He is a member of the Editorial Board in 5 journals and Associate Editor in the prestigious series of JMIR journals. He is the President of the Hellenic Biomedical Technology Society (ELEBIT), a member of the Administration Boards of the Greek Federation of Alzheimer's Associations and Related Disorders, the Greek AeroSpace& Space Medicine Research Association, a member of the Life Sciences Division of the International Academy of Astronautics and past member of the Innovation Zone of Thessaloniki, Greece. He is/has been the Chairman/Organiser of nine international conferences (iSHIMR2001, iSHIMR2005, MEDICON2010, GASMA2010, SAN2011, MEI2012, MEI2015, SAN2016, CBMS2017) and several national Biomedical Technology conferences and he is the Conference Producer of the Medical Education Informatics Conference and associated Spring/Summer School Series. He is a visiting scientist at Karolinska Institute, Sweden. He is a member of the Advisory Board of the Open Knowledge Foundation and a founding member of Chapter Greece. In 2009, he was awarded the Prize of the AUTH Research Committee for the Best Track Record in funded research projects among AUTH young academic staff. In 2015, he was awarded the title of the Honorary Professor of Karaganda State Medical University, Kazakhstan, as well as the Pospelov Medal for his contributions to Medical Education development by the same University.

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