



CONFERENCE PROGRAM

GENEDIS 24

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Thursday Afternoon October 17, 2024

18:00-21:00

Hellenic Initiative Against Alzheimer's (HIAAD) Private Event

Friday Morning October 18, 2024

VENUE

Pharos, Stavros Niarchos Foundation Cultural Center

09:00-09:45

Registration

09:45-10:00

Welcome addresses

10:00-10:30

Welcome Panel

Paul Schulz, MD, Professor, Director, Neurocognitive Disorders Center, McGovern Medical School, University of Texas Health Science Center at Houston (UTHealth), USA

Graciela Muniz Terrera, PhD, Professor, Social Medicine, Ohio University, & Chair of Ageing, Health and Methods, Edinburgh Dementia Prevention, University of Edinburgh, UK

Panagiotis Vlamos, PhD, Professor, Bioinformatics and Human Electrophysiology Laboratory, Department of Informatics, Ionian University, Greece

UNDER THE PATRONAGE OF

H.E. the President of the Hellenic Republic Ms. Katerina Sakellariopoulou.



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10:30-12:30	Panel Discussion
	Title: "Use of anti-amyloid monoclonal antibodies to treat Alzheimer's disease increase: Controversies and practicalities."
	Chairs: Constantine Lyketsos, Nikolaos Scarmeas
10:30-10:45	Nikolaos Scarmeas, MD, Associate Professor, Neurology, Columbia University, USA & Professor, Neurology, University of Athens, Greece Title: "Overview of efficacy and safety."
10:45-11:00	Paul Rosenberg, MD, Professor, Department of Psychiatry & Behavioral Sciences, School of Medicine, Johns Hopkins University, USA Title: "The challenge of Amyloid Related Imaging Abnormalities (ARIASs)."
11:00-11:15	Haroon Burhanullah, MD, Assistant Professor, Division of Geriatric and Neuropsychiatry, Director Consult Liaison service-ED/PES, Johns Hopkins Medicine, USA Title: "Deployment of monoclonals in clinical care: the Johns Hopkins experience."
11:15-11:30	Chara Kani, MSc, PhD, Head of the Department of Planning and Monitoring of Drug Administration at the Drug Directorate, General Directorate of Organization and Planning of Health Services, E.O.P.Y.Y., Greece Title: "Approval and funding of monoclonals for use in Greece."
11:30-12:30	Open Q&A Constantine Lyketsos, MD, MHS, Elizabeth Plank Althouse of Professor Johns Hopkins University & Chair Department of Psychiatry and Behavioral Sciences, Johns Hopkins Bayview, USA
12:30-13:30	Lunch Break



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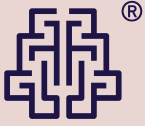
13:30-14:50	Keynote addresses
	Session Title: "The impact of stress in the brain."
	Chair: Panagiotis Vlamos
13:30-13:50	<p>Nikolaos Daskalakis, MD, PhD, Assistant Professor, Department of Psychiatry, McLean Hospital, Harvard Medical School, Harvard University, USA</p> <p>Title: "Systems Biology Dissection of Trauma-Related Risk and Disease Processes Across Brain Regions, Omic Layers, Cell-types and Blood."</p>
13:50-14:10	<p>Paige Seegan, PhD, Assistant Professor, Department of Psychiatry & Behavioral Sciences & Director of Behavior Medicine Services for the Division of Pediatric Nephrology & Pediatric Dialysis Program, Johns Hopkins University, USA</p> <p>Title: "Digital Mental Health Applications for Anxiety and Depression: Current Evidence, Limitations, and Future Directions."</p>
14:10-14:30	<p>Nuno Sousa, MD, PhD, Professor & President, School of Medicine, University of Minho, Portugal</p> <p>Title: "The neuromatrix of stress."</p>
14:30-14:50	<p>John Sotiropoulos, Researcher C, Group leader, Institute of Biosciences & Applications, NCSR Dimokritos, Greece</p> <p>Title: "Chronic Stress and Exosomes in precipitation and diagnosis of Alzheimer's Disease."</p>
14:50-15:10	Networking - Break



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Friday Evening October 18, 2024

15:10-17:30	Keynote addresses
	Session Title: "Disease Mechanisms and Neural Dynamics."
	Chair: John Sotiropoulos
15:10-15:30	<p>Josephine Egan, MD, Chief, Diabetes Section, Laboratory of Clinical Investigation, IRP/NIA/NIH & Clinical Director, IRP/NIA/NIH, USA</p> <p>Title: "The Origins of Intracerebral Insulin."</p>
15:30-15:50	<p>Vasiliki Machairaki, PhD, Assistant Professor, Department of Neurology, Johns Hopkins, USA</p> <p>Title: "iPSC-based disease modeling & drug discovery in Alzheimer's Disease."</p>
15:50-16:10	<p>Arno Villringer, MD, Department of Neurology, Max-Planck-Institute for Human Cognitive and Brain Science (MPI CBS), Leipzig, Germany</p> <p>Title: "Why cardiovascular diseases are neurological and vice versa."</p>
16:10-16:30	<p>Kyung-Min Noh, PhD, Group Leader, Genome Biology Unit, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany</p> <p>Title: "Deciphering Disease Mechanisms: CRISPRi and Single-Cell Multiomics Analysis of Chromatin Regulators."</p>
16:30-16:50	<p>Nektarios Tavernarakis, PhD, Chairman, Foundation for Research and Technology-Hellas (FORTH) & Research Director, Institute of Molecular Biology & Biotechnology, FORTH & Professor, Medical School, University of Crete, Greece</p> <p>Title: "Autophagic mechanisms in ageing and age-associated neurodegenerative disorders."</p>
16:50-17:10	<p>Clifford Kentros, PhD, Professor, Kavli Institute of Systems Neuroscience, Norwegian University of Science and Technology (NTNU), Norway</p> <p>Title: "Celltype-specific dissection of the Neural Circuitry of Memory."</p>
17:10-17:30	<p>Christos Yapijakis, MS, DMD, PhD, Associate Professor, 1st Department of Pediatrics, School of Medicine, National Kapodistrian University of Athens, "Aghia Sophia" Children's Hospital, Greece</p> <p>Title: "Genetics and Epigenetics of Oral Cancer."</p>
17:30-18:00	Networking - Break



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18:00-19:20	Keynote addresses
	Session Title: "Nanotechnology"
	Chair: Panagiotis Vlamos
18:00-18:20	Costas Demetzos , PhD, Professor, Pharmaceutical Nanotechnology, Director of the Laboratory of Pharm Technology, Department of Pharmacy, University of Athens, Greece Title: "Complexity at nanoscale. New challenges in therapeutics."
18:20-19:20	Book launch
	Title: "Nanotechnology in Therapeutics. Basic and Trends., Wiley, 2024" Author: Prof. Costas Demetzos
	Chair: Themis Exarchos
18:20-18:30	Dennis Douroumis , PhD, Professor, Pharmaceutical Technology and Process Engineering, Director of Centre for Innovation in Process Engineering and Research (CIPER), University of Greenwich, Faculty of Engineering and Science, Medway Campus, Chatham Maritime, UK Title: "Recent advancements in nanomedicine challenges and oppotunities."
18:30-18:40	Themis Exarchos , PhD, Associate Professor, Department of Informatics, Ionian University, Greece Title: "Artificial intelligence, bioinformatics and nanopharmaceuticals."
18:40-18:50	Nikolaos Naziris , MSc, PhD, Pharmacist, Department of Pharmacy, University of Athens, Greece Title: "New Health Technologies in Industry and Clinical Practice."
18:50-19:00	Maria Chountelessi , MSc, PhD, Pharmacist, UNI-PHARMA S.A., Greece Title: "Nanotechnological platforms intended for the delivery of biomolecules."
19:00-19:20	Open Q&A Costas Demetzos , PhD, Professor, Pharmaceutical Nanotechnology, Director of the Laboratory of Pharm Technology, Department of Pharmacy, University of Athens, Greece
20:00	Dinner



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Saturday Morning October 19, 2024

09:00-11:00	Keynote addresses
	Session Title: "Advances in the field of neurodegenerative diseases."
	Chair: Constantine Lyketsos
09:00-09:20	<p>Bez Wolozin, MD, PhD, Professor, Dept. Of Anatomy & Neurobiology, Dept. of Neurology, Center for Systems Neuroscience and Center for Neurophotonics, Boston University Chobanian & Avedisian School of Medicine, USA</p> <p>Title: "The Cellular Phase of Alzheimer's disease: Intersection of the RNA metabolic stress response with tau in neurodegeneration."</p>
09:20-09:40	<p>Katerina Akassoglou, PhD, Director, Center for Neurovascular Brain Immunology, Senior Investigator, Gladstone Institutes & Professor, Department of Neurology, University of California, San Francisco, USA</p> <p>Title: "Blood drivers of neurodegeneration: Translating basic discoveries to the clinic."</p>
09:40-10:00	<p>Panteleimon Giannakopoulos, MD, Medical Direction, University of Geneva Hospitals and Faculty of Medicine, University of Geneva, Switzerland</p> <p>Title: "Alzheimer's disease: the era of biomarkers."</p>
10:00-10:20	<p>Vasilis Ntziachristos, PhD, Professor, Chair of Biological Imaging (CBI) - Technical University Munich, Germany & Director, Institute of Biological and Medical Imaging (IBMI) - Helmholtz Munich, Germany</p> <p>Title: "Optoacoustics for advancing biomedical observation."</p>
10:20-10:40	<p>Chistos Plakiotis, MD, Unit Head, Aged Persons Mental Health Service, Monash Health Adjunct Senior Lecturer, Department of Psychiatry, Monash University, Australia</p> <p>Title: "Establishing a Novel Psychogeriatric Nursing Home (PGNH) InReach Service: A Multidisciplinary Team Approach to Mental Health Treatment in Residential Aged Care."</p>
10:40-11:00	<p>Maria Chountelessi, MSc, PhD, Pharmacist, UNI-PHARMA S.A., Greece</p> <p>Title: "Collaborative research strategy between pharmaceutical industry & academia."</p>
11:00-11:20	Networking - Break



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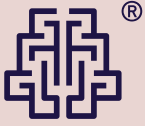
11:20-13:00	Keynote addresses
	Session Title: "Bioinformatics in a clinical setting."
	Chair:
11:20-11:40	<p>Roy Adams, PhD, Assistant Professor, Department Psychiatry & Behavioral Science, Johns Hopkins School of Medicine, USA</p> <p>Title: "Evaluating and comparing electronic health records-based dementia risk models for memory clinic and primary care settings."</p>
11:40-12:00	<p>Graciela Muniz Terrera, PhD, Professor, Social Medicine, Ohio University, & Chair of Ageing, Health and Methods, Edinburgh Dementia Prevention, University of Edinburgh, UK</p> <p>Title: "Are we forgetting the basics in our pursuit of the next best model?"</p>
12:00-12:20	<p>Samuel Danso, PhD, Senior Lecturer, School of Computer Science, University of Sunderland, UK & Fellow, Centre for Dementia Prevention & Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh, UK</p> <p>Title: "Explainable Deep Learning Models for Early Detection of Alzheimer's Disease based on ATN Framework."</p>
12:20-12:40	<p>Nikolaos Hatzakis, PhD, Professor, Director of NovoNordisk foundation Center for 4D cellular dynamics, Director of NovoNordisk Challenge Center for Optimized oligo escape and control of disease, Department of Chemistry & Nano-Science Center, Novo Nordisk Foundation Center for Protein Research, Denmark</p> <p>Title: "Decoding Protein Aggregation in Live Cells: Single Molecule recordings, 4D cell imaging and Machine Learning analysis."</p>
12:40-13:00	<p>Michael Harney, CEO, Terrahertz Ventures, USA</p> <p>Title: "The Determination of Physiological Variables Using a Local Analysis of Gravitational Resonances."</p>
13:00-14:00	Lunch Break



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14:00-15:40	Keynote addresses
	Session Title I: "Therapeutic approaches & disease intervention."
	Chair: Paul Rosenberg
14:00-14:20	<p>Dimitrios Kapogiannis, MD, Clinical Investigator, Human Neuroscience Section/Laboratory of Clinical Investigation, NIA/NIH, USA</p> <p>Title: "Metabolic interventions for brain aging and Alzheimer's disease: results of clinical studies for 5-2 intermittent fasting and an oral ketone ester."</p>
14:20-14:40	<p>Paul Schulz, MD, Professor, Director, Neurocognitive Disorders Center, McGovern Medical School, University of Texas Health Science Center at Houston (UTHealth), USA</p> <p>Title: "Routine viral and bacterial vaccinations appear to reduce the risk for developing Alzheimer's."</p>
14:40-15:00	<p>Taisuke Tomita, PhD, Professor, Laboratory of Neuropathology and Neuroscience, The University of Tokyo, Japan</p> <p>Title: "Targeting neuroinflammation in drug discovery strategy for Alzheimer disease."</p>
15:00-15:20	<p>Javier Ortiz, PhD, Assistant Professor, University of Texas Health Science Center at Houston (UTHealth), Houston Neurocognitive Disorders Center, Department of Neurology, USA</p> <p>Title: "Investigating Novel Disease Modifying Therapies for Early Alzheimer's Disease."</p>
15:20-15:40	<p>Thrasylvoulos Karydis, Co-Founder, CTO, DeepCure Inc</p> <p>Title: "Unlocking Novel Chemical Space for Inflammation Therapeutics with AI and Automation."</p>
15:40-16:00	Networking - Break



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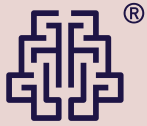
16:00-17:40	Keynote addresses
	Session Title II: "Therapeutic approaches & disease intervention."
	Chair:
16:00-16:20	<p>Georgios Skretas, PhD, Director, Institute for Bio-innovation, Biomedical Sciences Research Center "Alexander Fleming", Greece & Associated Researcher, Institute of Chemical Biology, National Hellenic Research Foundation, Greece</p> <p>Title: "Engineered microbes as a platform for discovering molecular rescuers of neurotoxic protein misfolding and aggregation."</p>
16:20-16:40	<p>Christina Dalla, PhD, Associate Professor, Department of Pharmacology, Neuropsychopharmacology group, Medical School, National & Kapodistrian University of Athens, Greece</p> <p>Title: "The role of sex and gender in neuropsychiatric research: neuroestrogens as novel pharmacological targets."</p>
16:40-17:00	<p>Rebecca Barnstaple, PhD, Neuroscience Graduate Program, York University, Canada</p> <p>Title: "The Therapeutics of Temporality: Using dance to support motor function in health and disease."</p>
17:00-17:20	<p>Dimitrios Vlachakis, PhD, Associate Professor, Department of Biotechnology, Agricultural University of Athens, Greece</p> <p>Title: "From irrational to rational to inspirational structure-based drug design."</p>
17:20-17:40	<p>Stavros Taraviras, PhD, Professor, Department of Physiology, Medical School, University of Patras, Director Stem Cell Laboratory, Greece</p> <p>Title: "Towards a gene therapy approach for human hydrocephalus."</p>
17:40-18:00	Networking - Break



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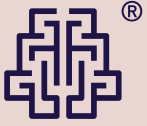
18:00-19:30	Workshop
	Title: "Interdisciplinary Approaches for the Diagnosis and Treatment of Neurodegenerative Diseases. The Role of Nanotechnology and Complexity."
	Chair: Vasiliki Machairaki
18:00-18:15	Ioannis Tsiichlis, MSc, Pharmacist, Department of Pharmacy, University of Athens, Greece Title: "Hybrid lipid-polymer nanoparticles for gene delivery to mitochondria."
18:15-18:30	Maria Tsakiri, MSc, Pharmacist, Department of Pharmacy, University of Athens, Greece Title: "Genistein-loaded exosome-inspired nanoparticles: development and in vitro evaluation on human iPSCs-derived neurons."
18:30-18:45	Nikolaos Naziris, MSc, PhD, Pharmacist, Department of Pharmacy, University of Athens, Greece Title: "Classic and New Technologies for Studying the Biophysics of Complex Nanosystems."
18:45-19:00	Stavros Stavrinides, PhD, Professor, Physics Department, Democritus University of Thrace, Greece Title: "Emerging complexity in nanoscale."
19:00-19:15	Michael Hantias, PhD, Associate Professor, Physics Department, Democritus University of Thrace, Greece Title: "Critical Phenomena and Neurodegenerative Diseases."
19:15-19:30	Open Q&A - Discussion
19:30-19:40	Closing, Panagiotis Vlamos
20:00	Gala Dinner - 10year anniversary celebration (Athenian Club)



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Sunday October 20, 2024

Sessions on demand



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