



3rd World Congress on Genetics, Geriatrics and Neurodegenerative Diseases Research

25 -28 October 2018, Toronto, Canada

<http://www.genedis.eu/>

CONFERENCE PROGRAM

THURSDAY AFTERNOON October 25, 2018

Venue	
16:00-18:00	Presentation of Research Center on Computational Biomarkers (RCCBM)
16:00-16:30	Vlamos Panayiotis , Professor and Head of the Department of Informatics, Ionian University
16:30-17:00	Tarnanas Ioannis , Senior Researcher at the University of Bern, Switzerland, Gerontechnology and Rehabilitation group at the ARTORG Center for Biomedical Engineering Research
17:00-17:30	Kotsireas Ilias , Professor in Physics & Computer Science, Wilfrid Laurier University-Waterloo, Ontario, Canada
17:30 - 18:00	Welcome Coctail

FRIDAY MORNING October 26, 2018

Workshop on Mathematical Modeling Methodologies in Computational Neurodegeneration	
Venue	Fields Institute
PART I- Neurodegenerative disease mathematical modelling	
09:00-09:30	Vlamos Panayiotis , Professor and Head of the Department of Informatics, Ionian University Title: Mathematical Modeling in Computational Neurodegeneration
09:30-10:00	Provata Astero , Research Director, Institute of Nanoscience & Nanotechnology, NCSR Demokritos, Vice-Chairman of the Complex Systems and Applications (COSA) Network Title: Chimera states in the dynamics of neuron networks
10:00-10:30	Hadjinicolaou Maria , Professor of Applied Mathematics, School of Science and Technology, Hellenic Open University Title: Mathematical aid for understanding cardiovascular diseases related to aging
10:30-11:00	Questions-Discussion
11:00-11:30	Coffee Break
PART II -Applied information processing and visualization	
11:30-12:00	Exarchos Themis , Assistant Professor, Department of Informatics, Ionian University, Greece Title: Decision support systems in neurodegenerative diseases diagnosis, treatment and management
12:00-12:30	Anderson Greg , Dean Office of Applied Research & Graduate Studies at Justice Institute of British Columbia Title: Neural basis of movement education
12:30-13:00	Questions-Discussion

13:00-14:00	Lunch Break
	PART III -Digital health and mixed realities
14:00-14:30	Tarnanas Ioannis , Senior Researcher at the University of Bern, Switzerland, Gerontechnology and Rehabilitation group at the ARTORG Center for Biomedical Engineering Research Title: Predicting progression from normal cognition to mild cognitive impairment for individuals at 5 years
14:30-15:00	Petros Spachos , Assistant Professor at the School of Engineering, University of Guelph, Head of GryPHone Lab. Title: Smartphones, wearables and mHealth: Doctor in your pocket
15:00-15:30	Questions-Discussion
15:30-16:00	Coffee Break
	PART IV -Data Mining, Metaheuristics, High-performance Computing
16:00-16:30	Mylonas Phivos , Associate Professor, Department of Informatics, Ionian University Title: The convergence of data analytics techniques in medical applications
16:30-17:00	Kotsireas Ilias , Professor in Physics & Computer Science, Wilfrid Laurier University-Waterloo, Ontario, Canada Title: Data Mining Techniques in Neurodegeneration
17:00	Closing

FRIDAY AFTERNOON October 26, 2018

Venue	
11:00-17:00	Registration
11:00-17:00	Registration
17:00-17:30	Opening Ceremony Welcome message from
17:45-18:00	<p align="center">Key Note address</p> <p align="center">Chair:</p> <p>Paxinos George Professor, AO DSc FASSA FAA, NHMRC Australia Fellow, Neuroscience Research Australia, Barker St and Hospital Rd, Randwick, Sydney</p> <p>Title: <i>Brain & Mind: Who is the puppet and who the puppeteer?</i></p>
18:00-18:45	<p align="center">Key Note address</p> <p align="center">Chair:</p> <p>Lyketsos Constantine, MD, MHS, Elizabeth Plank Althouse Professor, Director, Memory and Alzheimer's Treatment Center, Chair, Bayview Department of Psychiatry and Behavioral Sciences, Johns Hopkins Medicine</p> <p>Title: <i>"Treatment development for Alzheimer's disease: How are we doing?"</i></p>
19:00	Welcome Cocktail

SATURDAY October 27, 2018

Venue	Wilfrid Laurier University															
	PART I															
09:00-09:30	Key Note address															
	Chair:															
	<p>Eva Kehayia, PhD Associate Professor School of Physical and Occupational Therapy McGill University</p> <p>Title: <i>What psycholinguistics, neurolinguistics and the real environment can tell us about language, communication and mobility in aging</i></p>															
09:30-10:00	Key Note address															
	Chair:															
	<p>Vasiliki Machairaki M.Sc., Ph.D.</p> <p>Assistant Professor of Neurology, Johns Hopkins School of Medicine</p> <p>Title: Human pluripotent stem cells as in vitro models of neurodegenerative diseases</p>															
10:00-10:30	Key Note address															
	Chair:															
	<p>Panagiotis Roussos, Associate Professor of Psychiatry and Genetics and Genomic Sciences at the Icahn School of Medicine at Mount Sinai</p> <p>Title: “Big Data Analysis and Genetic Liability to Neuropsychiatric Disease”</p>															
10:30-11:00	Coffee Break															
	PART II															
11:00-13:00	<table border="1"> <tr> <td><u>Session</u></td> <td><u>Session</u></td> <td><u>Session</u></td> <td><u>Session</u></td> </tr> <tr> <td>Chair</td> <td>Chair</td> <td>Chair</td> <td>Chair</td> </tr> <tr> <td>Room</td> <td>Room</td> <td>Room</td> <td>Room</td> </tr> </table>				<u>Session</u>	<u>Session</u>	<u>Session</u>	<u>Session</u>	Chair	Chair	Chair	Chair	Room	Room	Room	Room
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<p>11:00-11:30</p>	<p>Styliani Geronikolou, PostDoc Researcher at Biomedical Research Foundation of the Academy of Athens. First Dep. Pediatric, Un. Athens Med School Agia Sophia Hospital, Un. Res Inst.for Malignant Dis in childhood</p> <p>Title: Mobile Phone Use Effect on Autonomic Nervous and Cardiac Systems</p>			
<p>11:30-12:00</p>				
<p>12:00-12:30</p>				
<p>12:30-13:00</p>				
<p>13:00-14:00</p>	Lunch Break			
<p>14:00-14:30</p>	<p>Key Note address</p> <p>Chair:</p> <p>Christos Plakiotis Unit Head, Aged Persons Mental Health Service, Monash Health, Adjunct Senior Lecturer, Department of Psychiatry, Monash University</p>			

	Title: <i>What does the literature tell us about the welfare of psychiatrists in training?</i>																											
14:30-15:00	Key Note address																											
	Chair:																											
	Spyridon Doukakis , Educator Mathematics, Computer Science, ICT, Neuroeducation, Distance Learning, Teacher Education and Training Villanova University, University of the Aegean <i>Title: To be announced</i>																											
15:00-15:30	Key Note address																											
	Chair:																											
	Michael Harney MS Bioinformatics, Sr. Data Architect, Health Catalyst, Salt Lake City, Utah Title: <i>The Effects of Quantum Entanglement on Chromatin and Gene Expression</i>																											
15:30-16:00	Lunch Break																											
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17:30	Closing
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SUNDAY October 28, 2018

Venue	ROYAL ONTARIO MUSEUM (ROM)
	PART I
09:00-09:30	<p style="text-align: center;">Key Note address</p> <p style="text-align: center;">Chair:</p> <p>Wolozin Benjamin, MD, PhD, Professor, School of Medicine, Boston University</p> <p>Title: <i>Membrane-less organelles and RNA binding proteins: The biological underpinnings of neurodegeneration</i></p>
09:30-10:00	<p style="text-align: center;">Key Note address</p> <p style="text-align: center;">Chair:</p> <p>Kentros Clifford, Professor, NTNU, Kavli Institute for Systems Neuroscience, Kentros Research Group, Norway</p> <p>Title: <i>Molecular genetic dissection of the neural circuitry of memory</i></p>
10:00-10:30	<p style="text-align: center;">Key Note address</p> <p style="text-align: center;">Chair:</p> <p>Robakis Nikolaos, Professor of Psychiatry, Neuroscience and experimental therapeutics First A.P. Slaner family Professor for Alzheimer disease research. Icahn School of Medicine at Mount Sinai</p> <p>Title: <i>What do recent clinical trials teach us about the etiology of Alzheimer's neurodegeneration</i></p>
10:30-11:00	Questions-Discussion
11:00-11:30	Coffee Break
	PART II

11:30-12:00	<p style="text-align: center;">Key Note address</p> <p style="text-align: center;">Chair:</p> <p>Tavernarakis Nektarios, Chairman of the Board of Directors, Foundation for Research and Technology - Hellas (FORTH), Research Director, Institute of Molecular Biology and Biotechnology, FORTH, Professor of Molecular Systems Biology, Medical School, University of Crete</p> <p>Title: <i>Regulation and roles of autophagy in the brain</i></p>
12:00-12:30	<p style="text-align: center;">Key Note address</p> <p style="text-align: center;">Chair:</p> <p>Kapogiannis Dimitrios, Clinical Investigator, Laboratory of Neurosciences, National Institute on Aging; Associate Professor, Department of Neurology, Johns Hopkins University</p> <p>Title: <i>Exosome biomarkers revolutionize preclinical diagnosis of neurodegenerative diseases and assessment of treatment responses in clinical trials</i></p>
12:30-13:00	Questions-Discussion
13:00-14:00	Lunch Break
PART III	
14:00-14:30	<p style="text-align: center;">Key Note address</p> <p style="text-align: center;">Chair:</p> <p>Yapijakis Christos Assistant Professor of Neurogenetics 1st Department of Pediatrics, School of Medicine National & Kapodistrian University of Athens, Greece</p> <p>Title: <i>Regulatory role of microRNAs in brain development and function</i></p>
14:30-15:00	<p style="text-align: center;">Key Note address</p> <p style="text-align: center;">Chair:</p> <p>Taraviras Stavros Prof. Department of Physiology at the Medical School, University of Patras, Director Stem Cell Laboratory</p>

	Title: <i>Getting insights into human hydrocephalus from mouse model</i>
15:00-15:30	Questions-Discussion
15:30-16:00	Coffee Break
PART IV	
16:00-16:30	<p style="text-align: center;">Key Note address</p> <p style="text-align: center;">Chair:</p> <p>Joseph DeSouza, Associate Professor Systems Neuroscience, York University, Toronto</p> <p>Title: <i>Learning choreography in expert ballet dancers and people with Parkinson's disease</i></p>
16:30-17:00	<p style="text-align: center;">Key Note address</p> <p style="text-align: center;">Chair:</p> <p>Kristine Newman, Associate Professor at Ryerson University in the Faculty of Community Services, Daphne Cockwell School of Nursing in Toronto, Ontario, Canada</p> <p>Title: <i>Engaging social interest and creating awareness for the behavioral and psychological symptoms of dementia</i></p>
17:00	Closing ceremony