

Hellenic Society for Neuroscience



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Serbian Neuroscience Society

# FENS Featured

Federation of European Neuroscience Societies

Nourishing Neuroscience in the Cradle of Culture

Regional Meeting 2015



SCIENTIFIC PROGRAM

**«loannis Vellidis»** Congress Center, **Thessaloniki,** Greece

Wednesday	7 October 2 0 1 5
13:00- 14:40	Symposium 1 ROOM I
	Neuroengineering Chair person: Nicolaos Maglaveras
L1	<b>Nitish Thakor</b> : Frontiers of Neurotechnology: "Electroceutical" implantable neural interfaces
L2	<i>Nitish Thakor:</i> Frontiers of Neuroengineering: from cells to cognition, and micro to machines
L3	<i>loanna Chouvarda</i> : Computational methods for sleep microstructure analysis in normal and pathologic sleep
L4	O. Chetelaut: New generation of micro and wearable sensors for telemonitoring of patients suffering from neurodisorders
13:00-14:40	Symposium 2 ROOM II
	Peripheral and central mechanisms of pain dependent plasticity Chair person: Alex Binshtok , Avi Priel
L1	Avi Priel: Deciphering the molecular basis of pain receptors polymodality.
L2	<b>Alexander Binshtok</b> : Colouring labelled lines: Multispectral mapping of primary afferents as a tools to study their reorganization in chronic pain
L3	<b>Menachem Hanani</b> : Satellite glial cells activation by systemic and local injuries and its contribution to chronic pain.
L4	<b>Robert Goldstein</b> : Pain at its source: Signal transduction and propagation at the nociceptive peripheral terminals
13:00-14:40	Symposium 3 ROOM III
	Multisensory integration in movement, posture and locomotion Chair persons: Mouchnino Laurence, Blouin Jean
L1	<i>Vassilia Hatzitaki</i> : Exploring sensorial reweighting of posture in young and old adults by means of vestibular stimulation
L2	<i>Charalambos Papaxanthis</i> : Mental actions: cortical plasticity, learning and performance
L3	<b>Laurence Mouchnino</b> : Cortical facilitation of somatosesnory inputs during the planning phase of gait initiation
L4	<i>Cathy Craig</i> : Footstep sounds used as a sensory cue for improving gait in Parkinson's disease patients
L5	<i>Marco Schieppati</i> : Body sway increases after theta-burst stimulation of the cerebellar vermis

**ROOM IV** 

## **7-10** October 2015

### «Ioannis Vellidis» Congress Center, Thessoloniki, Greece

13:00-14:40

Symposium 4

	Novel treatments for traumatic brain injury Chair persons: Esther Shohami , Sanja Pekovic
L1	Chaim G. Pick: New remedies for treating traumatic brain injury
L2	Esther Shohami: Endocannabinoids in TBI
L3	Sanja Pekovic: Hyperbaric oxygen therapy in TBI – underlying mechanisms
L4	Natasa Loncarevic-Vasiljkovic: Therapeutic potential of dietary restriction in TBI
14:40- 15:00	Coffee Break
15:00-16:40	Symposium 5 ROOM I
	Transcriptional regulation of neuronal identity Chair persons: Nissim Ben-Arie, Panagiotis Politis
L1	<b>Nissim Ben-Arie</b> : Ventral spinal cord patterning: from transcription regulation to a neurological disease
L2	Panagiotis Politis: Novel gene regulatory networks in neural development
L3	<i>Francois Guillemot</i> : Signals and factors controlling stem cell activity in the adult brain
L4	<b>Federico Calegari</b> : Regulation of neural stem cell expansion in the mammalian brain
L5	Jovica Ninkovic: Choroid plexus secreted microRNAs maintain neural stem cells by regulating neurogenic fate determinants
15:00-16:40	Symposium 6 ROOM II
	The Cholinergic system - Physiology, neuroimmunology and toxicology Chair persons: NTBA
L1	<b>Shani Shenhar-Tsarfaty</b> :Imbalanced cholinergic signaling contributes to cardio-vascular risks in health and disease
L2	<b>NTBA</b> : Novel hybrid small molecule scavengers for mitigating the toxicity of organophosphates
L3	<i>Israel Silman</i> : Structure/Function relationships in the interaction of toxic and therapeutic anticholinesterases with acetylcholinesterase
L4	<b>Yoav Paas</b> : Subunit stoichiometry and organization in a chloride selective Cys-loop receptor
L5	Caterina Psarropoulou: Immature seizures and plasticity of CNS cholinergic

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<u> </u>	CIEITHITETROGRAFT
15:00-16:40	Symposium 7 ROOM III
	Body/action representations and potential clinical applications Chair persons: Amir Amedi, Konstantinos Tsagkaridis
L1	Noa Zeharia: Somatotopic information in the human brain
L2	<i>Martin Edwards</i> : Action observation priming facilitates action execution and spatial perception in healthy and brain-damaged participants
L3	<b>Zohar Tal</b> : The origins of metamodality in visual tools area LO: Bodily topographical biases and increased functional connectivity to S1
L4	<b>Konstantinos Tsagkaridis</b> : How can we boost action semantics in healthy controls and impaired patients to facilitate perception?
15:00-16:40	Symposium 8 ROOM IV
	The vulnerability to the traumatic consequences of stress Chair persons: Martine Ammassari-Teule , Jelena Radulovic
L1	Harm J. Krugers: Stress-hormones, early life adversity and fear memory formation
L2	<b>Pascale Gisquet-Verrier</b> : Post traumatic stress disorder and Substance used disorder: Two pathologies of memory due to dysfunction of memory reactivation?
L3	<i>Gal Richter Levin</i> : Extensive analysis of the factors promoting individual differences in vulnerability across distinct animal models of PTSD.
L4	<b>Martine Ammassari-Teule:</b> The efficacy of propranolol in decreasing fear memory and resetting neuronal connectivity to pre-trauma levels depends on the genotype-predominant memory system.
16:40-17:40	Plenary Lecture 1 ROOM
	Chair persons: Selma Kanazir, Fotini Stylianopoulou
	<b>Carmen Sandi:</b> The neurobiology of social hierarchies: from rodents to neuroeconomics
17:40-18:40	Welcome Cocktail
19:30	Presidential Lecture Aristotle's University of Thessalonika
	John O' Keefe: Can Entorhinal Grid cells provide the metric for the Cognitive Map

### «Ioannis Vellidis» Congress Center, Thessoloniki, Greece

Thursday	8 October 2 0 1 5
09:00- 10:40	Symposium 9 ROOM I
	Autophagy and lysosomes in the nervous system Chair persons: Hagit-Eldar Finkelman, Silva Hecimovic
L1	Ronit Pinkas: Autophagy, Beclin 1 and neurodegeneration
L2	<b>Cecilia Bucci</b> : Role of Rab7 in autophagy: implications for Charcot-Marie. Tooth type 2b neuropathy
L3	<i>Fiona Menzies:</i> Autophagy as a therapeutic target for neurodegenerative diseases.
L4	<b>Hagit Eldar-Finkelman</b> :Lysosome as a therapeutic target in Alzheimer's disease and its regulation by GSK-3
09:00- 10:40	Symposium 10 ROOM II
	Drug Addiction: reward, memory and addiction Chair persons: Rami Yaka, Ami Citri
L1	<b>Segev Barak</b> : Memory replacement by post-retrieval counterconditioning: a new approach of relapse prevention in substance use disorders
L2	<b>Rainer Spanagel:</b> A common molecular mechanism for drug and natural reward-seeking
L3	Rami Yaka: Targeting drug-cue associations to prevent cocaine reward
L4	<b>Oliver M. Schlüter</b> : The fate of silent synapses in cocaine-induced neuronal circuit alterations
L5	<i>Ami Citri</i> : Transcription networks provide insight into the neural circuitry of addiction
L6	Gilli Silberberg: Striatal Microcircuits underlying sensory integration.
09:00-10:40	Symposium 11 ROOM III
	Neuroinflammation in neurodegenerative diseases Chair persons: Spiros Georgopoulos, Alon Monsonego
L1	Spiros Georgopoulos: Microglia in Alzheimer's disease
L2	<b>Alon Monsonego</b> : Adaptive immunity in the progression and treatment of Alzheimer's Disease
L3	Ingo Bechmann: Microglia in human Alzheimer's Disease and obesity

	<u> </u>	JENTIFIC PROGRAM	
09:00- 2	10:40	Symposium 12	ROOM IV
		Novel developments in spinal cord injury and repair Chair person: Rebecca Matsas	
L1		<b>Michal Schwartz</b> : Immune-mediated recovery following spinal coorchestrated by the brain's remote choroid plexus	ord injury is
L2		Stefano Pluchino: How stem cells speak with immune cells	
L3		Miodrag Stojkovic: Spinal cord injury and cell therapy. Models and m	echanisms.
L4		Florentia Papastefanaki: Functionalized gold nanoparticles as dr systems	ug delivery
10:40- 1	11:00	Coffee Break	
11:00-1	.2:00	Plenary Lecture 2	ROOM I
		Chair persons: George Kostopoulos, Costas Papatheodoropoulos	S
		<b>Nikos Logothetis:</b> NET-fMRI of Large-Scale brain networks: Mapp dynamic connectivity during epochs of synaptic and system conscious	0
12:00-1	.3:40	Special Interest 1	ROOM I
		Chair person: Esty Shohami	
		<b>Rafi Aviram</b> : Neuro for the Naïve – Developing Outreach Program Edmond and Lily Safra Center for Brain Science	ms at the
12:00-1	.3:40	Special Interest 2	ROOM I
		Chair persons: Monica di Luca, Michalis Koutsilieris	
		Roberto Caminiti: Transparency in animal research and its cost	
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### «Ioannis Vellidis» Congress Center, Thessaloniki, Greece

12:00-13:40	Symposium 13	ROOM III
	Neuroinflammation and neuroprotection in the CNS Chair person: Marianne Schultzberg , Nadezda Nedeljkovic	
L1	<i>Marianne Schultzberg</i> : Inflammation and its resolution – studies Alzheimer's disease	s in
L2	<b>Talma Brenner</b> : $\alpha 7$ nicotinic acetylcholine receptor and RIC-3 in cholinergic anti-inflammatory pathway	the
L3	<b>Probert Lesley</b> : The multifaceted contribution of TNF-NF-κB sign during health and disease.	aling in CNS
L4	Nadezda Nedeljkovic: Ectonucleotidases in neuroinflammation	
L5	<b>Dimitrios Karussis</b> : Affecting neuroinflammation and inducing neuroprotection in CNS diseases through stem cell therapies	
12:00-13:40	Symposium 14	ROOM IV
	Development of the cerebral cortex and retina Chair person: Nada Zecevic , Sanja Ivkovic	
L1	Nada Zecevic: Cortical Interneuron development in primates	
L2	<b>Nevena Radonjic:</b> Sonic hedgehog: The role of ventral morphogodeveloping human cortex?	en in the
L3	<b>Desanka Milanovic</b> : Elucidation of molecular mechanisms under propofol-anesthesia toxicity in the developing brain	lying
L4	<i>Sanja Ivkovic</i> : Continuous EGF signaling in postnatal retina leads increase in the number of photoreceptor progenitors	to the
L5	<b>Pavle Andjus</b> : Enriched environment, brain plasticity and the role tenascin C in postnatal development	e of
13:40- 15:15	Lunch Break - Poster Session 1	
15:15-16:55	Symposium 15	ROOM I
	Spinal Cord circuitry and Locomotion Chair persons: Maria Albani, Urzula Slawinska	
L1	Athanasios Chatzisotiriou: Improving locomotion after spinal cor	d injury
L2	<i>Urszula Slawinska</i> : How to activate the spinal circuitry for walking paraplegic rats?	ng in
L3	<i>Maria Knikou</i> : Metamorphosis of human spinal neuronal networlocomotor training	rks after

15:15-16:55	Symposium 16 ROOM II
	Targeting Neurodegenerative diseases: from bench to bedside. Chair person: Orly Weinreb
L1	<i>loannis Sotiropoulos</i> : Ab and Tau therapeutics in stress-driven brain pathology: exploring the path from depression to Alzheimer's disease
L2	<i>Ilana Gozes</i> : Tau protein as a converging target of synaptic protection and pathology: novel evidence beyond Alzheimer's disease.
L3	<i>Orly Weinreb</i> : Multimodal neuroprotective iron chelators: Novel therapeutic strategy for Parkinson's disease
L4	Danny Offen: Cell and gene therapy in ALS
15:15-16:55	Symposium 17/ ROOM III
	Brain signal analysis Chair person: Gary Green, Panos Bamidis
L1	<b>Gary Green</b> : MEG analysis of brain activity: IT tools, methodologies and recent results
L2	<i>Tal Dotan Ben-Soussan</i> : From sensorimotor activation and connectivity to cognition: The Quadrato motor training model
L3	Panos Bamidis: Analysing data from affective neuroscience protocols
L4	<b>Nikos Laskaris</b> : MINeD Graphs from time-resolved functional brain connectomics'
15:15-16:55	Symposium 18 ROOM IV
	Inhibitory synaptic plasticity and its role in CNS pathologies Chair persons: Miho Terunuma, Stephen Moss
L1	<b>Stephen Moss</b> : Neurosteroid regulation of GABAAR membrane trafficking and its contribution to autism spectrum disorders
L2	<b>Sabine Lévi</b> : Rapid control of KCC2 co-transporter membrane dynamics, stability and function by excitation and inhibition
L3	<b>Miho Terunuma</b> : Altered GABAB receptor function by obesity-associated metabolic stress
L4	<b>Theofilos Papadopoulos</b> : Phosphoinositide-dependent activation of Collybistin - from inhibitory postsynapse formation to epilepsy and mental retardation.
16:55- 17:35	Hot Topic 1 ROOM I
	Chair person: Spyros Efthymiopoulos
	<i>Moussa Youdim</i> : Why multi target neurorestorative drugs for Parkinson's and Alzheimer's diseases

Friday	9 October 2 0 1 5
09:00- 10:40	Symposium 19 / ROOM I
	Animal models in CNS Chair person: Maria Albani
L1	Hans Lassmann: Animal models for CNS demyelinating disorders
L2	Linda Greensmith: Animal models of amyotrophic lateral sclerosis
L3	<b>Ada Mitsacos</b> : Receptor studies and transplantations in mouse models of Parkinson's disease
L4	Nikolaos Grigoriadis:CNS stem cells
09:00- 10:40	Symposium 20 ROOM I
	Cellular and molecular mechanisms of synaptic plasticity and memory Chair person: Mike Stewart
L1	Kasia Radwanska: Mechanism for long-term memory formation when synaptic strengthening is impaired
L2	<b>Kobi Rozenblum</b> : From molecular and cellular mechanisms Underlying Cortical-Dependent Memories to Cognitive Enhancers
L3	<i>Mike Stewart</i> : Morphological alterations in spines and synapses following behavioural manipulations in young and old mice
L4	<b>Peter Giese</b> : A Novel Mechanism Underlying Long-term Memory Formation: Generation of Multi-Innervated Dendritic Spines
09:00- 10:40	Symposium 21 ROOM II
	Molecular mechanisms of social behavior Chair person: Jelena Radulovic, Evan Elliott
L1	<i>Inga Neumann</i> :Brain oxytocin in rodent social behaviours: from social preference to social fear"
L2	<i>Jelena Radulovic</i> : Role of oxytocin receptors in the regulation of discrete social behaviors: Relationship to mGluR5
L3	Fotini Stylianopoulou: Denial of the reward of maternal contact affects social behavior and the serotonergic system of the adult rat brain
L4	<i>Miroslav Adzic</i> : Effects of social stress and antidepressants on the glucocorticoid receptor phosphorylation status: linking stress to depression
L5	<b>Shlomo Wagner</b> : Interaction between oxytocin and urocortin-3 in the medial amygdala determines synaptic plasticity and social recognition memory

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10:40- 11:00	Coffee Break	
11:00 -12:00	Plenary Lecture 3 ROOM	_
	Chair person: Efstratios Kosmidis , Panayiota Poirazi	
	Sean Hill: The Human Brain Project	
12:00- 13:40	Special Interest 3 ROOM	1
	What does FENS for you? Meeting on excellent training opportunities	
L1	Menno Witter: Welcome and introduction	
L2	<b>Alicja Puścian:</b> Better together - efficient assessment of social interactions in rodents	
L3	<b>Lucia Sacheli</b> : Social grasps along development: from Italy to The Netherlands, a joint-action study on preschooler and adults	
L4	NTBA: Cajal training course awardee:	
L5	<i>Marija Stanojevic</i> : ELECTRAIN 2015 – dulce cum utili	
L6	Menno Witter: What are the training activities of FENS	
12:00- 13:40	Special Interest 4 ROOM	11
12:00- 13:40	Special Interest 4 ROOM  Chair persons: Lorenzo Lorusso, Lazaros C. Triarhou  History of Neuroscience	<i>!!</i>
12:00- 13:40 L1	Chair persons: Lorenzo Lorusso, Lazaros C. Triarhou	<b>!</b> !
	Chair persons: Lorenzo Lorusso, Lazaros C. Triarhou History of Neuroscience	
L1	Chair persons: Lorenzo Lorusso, Lazaros C. Triarhou History of Neuroscience Lorenzo Lorusso: Chairman's introductory remarks	
L1 L2	Chair persons: Lorenzo Lorusso, Lazaros C. Triarhou History of Neuroscience Lorenzo Lorusso: Chairman's introductory remarks Marco Piccolino: Sands, stars and visions between Archimedes and Galileo Lazaros C. Triarhou: Curtailed aspects of Cajal's tips on scientific research:	
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## «Ioannis Vellidis» Congress Center, Thessaloniki, Greece

12:00- 13:40	Symposium 22 ROOM III
	The brainstem - from development to function Chair person: Dalit Sela-Donenfeld , Yosef Yarom
L1	<b>David Wilkinson</b> : Regulation of hindbrain boundary formation and neurogenesis
L2	<b>Dalit Sela-Donenfeld</b> : Decoding the connectome formation of the auditory and ION hindbrain neurons
L3	<i>Hans Gerd Nothwang</i> : Evolutionary development of sound localization circuits
L4	Eyal Wigderson: Early multimodal integration in the auditory brainstem
L5	Yosef Yarom: Timing in the ION-cerebellar circuit
12:00- 13:40	Symposium 23 ROOM IV
	Locus Coeruleus: new light on old neurons Chair person: Menahem Segal
L1	Menahem Segal: Noradrenergic modulation of Hippocampal plasticity
L2	<b>Yuval Nir</b> : The locus coeruleus-noradrenaline system and sensory processing in sleep/wakefulness
L3	Ofer Yizhar: Noradrenergic modulation of prefrontal cortical function
L4	Antoine Adamantidis: Optogenetic dissection of arousal circuits in the brain
L5	<b>Susan Sara</b> : Locus coeruleus in time with forebrain oscillations: implication for memory processing.
13:40- 15:15	Lunch Break - Poster Session 2
15:15-15:55	Hot Topic 2 ROOM I
	Chair person: Illana Gozes  Marshall Devor: Neural basis for loss of consciousness during anesthesia and anesthesia-like states

15:55- 17:35	Symposium 24 ROOM I
	Behavioral aspects in animal models. Environmental manipulations and pharmacological intervention.  Chair person: Brenda J Anderson
L1	<b>Brenda J Anderson</b> : Adaptations to repeated unpredictable threats in a chronic living environment: A double edged sword
L2	<b>Philippos Karalis</b> : Cognitive and behavioral consequences of neonatal hypoxia-ischemia of the brain: the effect of therapeutic interventions
L3	<b>Despina Tata</b> : Interaction of postnatal stress and neonatal hypoxia-ischemia on behavior and markers of brain plasticity
L4	<b>Evgenia Dandi</b> : The role of environmental enrichment on stress reactivity and behaviour following maternal separation
15:55- 17:35	Symposium 25 ROOM II
	Nicotinic acetylcholine receptors: From genes and synapses to networks and cognition Chair persons: Eleni Konsolaki, Irini Skaliora
L1	<b>Huibert Mansvelder</b> : Nicotinic receptors in rodent and human cortical circuits
L2	<i>Mario Marchi</i> : Functional interaction between nicotinic and glutamatergic receptors at nerve terminal level: a fine tuning of synaptic signals
L3	Uwe Maskos: Crucial role of CHRNA5 in drug addiction and cognition
L4	<b>Charalambos Sigalas</b> : Nicotinic modulation of cortical network activity and cognitive processes
15:55- 17:35	Symposium 26 ROOM III
	The impact of receptor-receptor interactions on brain plasticity Chair person: Dasiel O. Borroto-Escuela
L1	Fang Liu: Targeting protein-protein interaction to develop novel therapeutics for the treatment of schizophrenia
L2	Marc Flajolet: When GPCRs meet growth factor receptors
L3	<i>Eero Castrén</i> : Neurotrophin receptor TrkB interacting proteins in neuronal plasticity
L4	<i>Kjell Fuxe</i> : Changes in GPCR heteroreceptor complexes as a molecular basis for schizophrenia and depression and their treatment
L5	<b>Dasiel O. Borroto-Escuela</b> : Allosteric receptor-receptor interactions in GPCR-RTK heteroreceptor complexes. Relevance for brain plasticity

## «Ioannis Vellidis» Congress Center, Thessaloniki, Greece

	SCIENTIFIC PROGRAM	X
15:55- 17:35	Symposium 27 ROOM	I IV
	Innovative technologies for biomarker discovery in neuroscience Chair persons: Anthony Tsarbopoulos, Michaela Filiou	
L1	<b>Anthony Tsarbopoulos</b> : Use of MS-based methodologies for screening bioactive compounds as anti-amyloidogenic agents and identifying new Abiomarkers	4D
L2	<b>Michaela Filiou</b> : Revealing protein expression and turnover changes in psychiatric disorders by 15N metabolic labeling and multi-isotope imaging N	√IS.
L3	<b>Evangelos Gikas</b> : Metabololism and metabolomics using MS: a powerful tool for neuroscience	
L4	<i>Michalis Aivaliotis</i> : Decoding systems-wide signaling pathways by MS-based quantitative phosphoproteomics to unravel disease mechanisms	
17:35-18:15	Hot Topic 3 ROO	M
	Chair person: Dejan Zecevic, Efstratios Kosmidis	
	Lawrence Cohen: Imag(in)ing the future of optical recording of membran potential	ie
18:15- 19:15	Special Interest 5 ROOI	M I
	EJN BEST PUBLICATION AWARD Chair person: NTBA	
	<i>Silvina Diaz</i> : Paradoxical increase in survival of newborn neurons in the dentate gyrus of mice with constitutive depletion of serotonin.	

Saturday	10 October 2 0 1 5
09:00- 10:40	Symposium 28 ROOM I
	Mechanisms of alpha-synuclein-mediated neurotoxicity and therapeutic implications
	Chair persons: Leonidas Stefanis, Ivanka Markovic
L1	Katerina Paleologou: The effect of 2-synuclein mutations on Serine 129 phosphorylation
L2	<b>Leonidas Stefanis</b> : Alpha-synuclein degradation: an opportunity for therapeutic intervention
L3	<i>Ivanka Markovic</i> : The protective role of AMP-activated protein kinase in alpha-synuclein neurotoxicity in vitro
L4	Kostas Vekrellis: Extracellular alpha-synuclein: the spreading menace
L5	<b>Nadia Stefanova</b> : Animal models of Multiple System Atrophy based on the alpha-synucleinopathy concept: Insights into pathophysiology and treatment
09:00- 10:40	Symposium 29 ROOM II
	Common mechanisms in pathophysiology of neurodegenerative disorders Chair persons: Christina Dalla, Ioannis Sotiropoulos
L1	<i>Christina Dalla</i> : Sex-dependent brain vulnerability to neuropsychiatric and neurodegenerative disorders
L2	<b>Ehud Cohen</b> : Cyclophilin malfunction underlies the development of distinct late-onset, neurodegenerative maladies"
L3	<b>Adrian Israelson</b> : Misfolded SOD1 as a therapeutic target in amyotrophic lateral sclerosis
L4	<i>loannis Charalampopoulos</i> : Novel synthetic microneurotrophins as neuroprotective and neurogenic agents"
09:00- 10:40	Symposium 30 ROOM III
	GABA circuits in embryonic and postnatal development of the central nervous system Chair persons: Domna Karagogeos, Kyriaki Sidiropoulou
L1	Myrto Denaxa: Molecular cascades controlling the development and function of inhibitory cortical networks
L2	<i>Christin Metin</i> : Molecular control of interneuron migration: signaling in the leading edge and in the primary cilium.
L3	<b>Rhiannon Meredith</b> : Maturation of GABA-A inhibition in both 'neurotypical' wildtype mice and mouse models for neurodisorders.

### «Ioannis Vellidis» Congress Center, Thessoloniki, Greece

	Kyriaki Sidiropoulou & Domna Karagogeos: Genetic models of decrea GABAergic inhibition in the mouse	
09:00- 10:40	Symposium 31 ROC	OM IV
	Real-time optical Imaging; from a single spine to the intact brain Chair persons: Dejan Zecevic, Amiram Grinvald	
L1	<b>Dejan Zecevic</b> : Subthreshold electrical signaling in dendritic spines: a voltage-imaging study	
L2	<b>Amiram Grinvald</b> : Real-time VSD based optical Imaging revealed the directional interactions of on-going activity and sensory-evoked activity	
L3	<b>Bradley Baker</b> : Mechanistic studies of the fluorescence change of a genetically encoded voltage indicator	
L4	<i>Marco Canepari</i> : The physiological synergistic activation of dendritic voltage-gated calcium channels	
10:40- 11:00	Coffee Break	
11:00- 12:00	Plenary Lecture 4 RO	оом і
	Chair person: Nikos Grigoriadis	
	<b>Evan Snyder</b> : Cross-talk between stem cells and the neurodegenerative environment	/e
12:00-13:40	Special Interest 6 R	оом і
	IBRO Alumni Lecture Chair person: Susan J. Sara	
	Einat Shetreet: fMRI contribution to theories of language acquisition	
12:00-13:40	Symposium 32 RO	ом ІІ
	Diabetes and vascular neurological diseases Chair persons: Natan Bornstein, Milija Mijajlovic	
L1	Milija Mijajlovic: Insulin resistance and carotid disease	
L2	Natan Bornstein: Glycemic control in acute stroke	
L3	David Tanne: Diabetes and stroke & cognitive impairment	
L4	<b>George Ntaios</b> : Ischaemic stroke in diabetes: is it really a macrovascul complication?	ar

12:00-13:40	Symposium 33 ROOM II
	From genes to behavior: putting together the puzzle pieces of treatment of mood disorders Chair person: Claude Brodski, Miroslav Savic
L1	<b>Claude Brodski</b> : Abnormal development of monoaminergic neurons is implicated in mood fluctuations and bipolar disorder
L2	<i>Miroslav Savic</i> : Pharmacological elucidation of the role of GABAA receptors in anxiety
L3	Marin Jukic: The involvement of CYP2C19 in stress-induced despair
L4	<b>Galila Agam</b> : Some of lithium's neuroprotective effects are mediated via its modulation of inositol metabolism and autophagy
13:40- 15:15	Lunch Break - Poster session 3
15:15-16:55	Symposium 34 ROOM
	Aging and aging-associated diseases Chair person: Selma Kanazir, Efstratios Gonos
L1	Silva Hecimovic: Lysosomal dysfunction in neurodegenerative diseases
L2	<b>Roosmarijn Vandenbroucke</b> : The role of blood-cerebrospinal fluid barrier in aging and Alzheimer's disease
L3	Efstathios Gonos: Proteasome activation as a novel anti-ageing strategy.
L4	Selma Kanazir: Therapeutic interventions to postpone brain aging
15:15-16:55	Symposium 35 ROOM I
	Active dendritic integration: from computation to behaviour Chair persons: Christian Wozny, Stephen R. Williams
L1	<b>Yiota Poirazi</b> : Linking memories across time via synapse clustering in nonlinear dendrites
L2	<b>Christian Wozny</b> : Role of dendrite-targeting interneurons in shaping dendritic Integration
L3	<b>Stephen R. Williams</b> :Physiologically engaged active dendritic integration in the retina and neocortex
L4	Jackie Schiller: Participation of active dendritic processing in selectivity tuning of cortical neurons

#### SCIENTIFIC PROGRAM

«Ioannis Vellidis» Congress Center, Thessoloniki, Greece

15:15-16:55	Symposium 36	ROOM III
	Computational neuroscience: From systems to molecules Chair person: Alain Destexhe	
L1	Dora Angelaki: Optimal integration in multisensory decisions	
L2	<i>Alain Destexhe</i> : Relating multiple scales of neuronal activity, from to mesoscopic levels	n cellular
L3	Khashayar Pakdaman: Stochasticity in single neuron models	
L4	Efstratios Kosmidis: Modeling intracellular pathways	
		BOOM
	Efstratios Kosmidis: Modeling intracellular pathways  Hot Topic 4	ROOM
		ROOM
	Hot Topic 4 Chair person: Sabera Ruzdijic, Kiki Thermos	ROOM I