# SCIENTIFIC PROGRAM

**FENS** 

Wednesday	<b>7 October</b> 2 0 1 5
13:00- 14:40	Symposium 1 ROOM I
	Neuroengineering Chair person: Nicolaos Maglaveras
L1	<i>Nitish Thakor</i> : 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>Ioanna Chouvarda</i> : Computational methods for sleep microstructure analysis in normal and pathologic sleep
L4	<b>O. Chetelat</b> : 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 persons: Alex Binshtok , Avi Priel
L1	Avi Priel: Deciphering the molecular basis of pain receptors polymodality
L2	<i>Alexander Binshtok</i> : Colouring labelled lines: Multispectral mapping of primary afferents as a tools to study their reorganization in chronic pain
L3	<i>Menachem Hanani</i> : 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	<i>Laurence Mouchnino</i> : 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

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7-10 October 2015

«Ioannis Vellidis» Congress Center, Thessaloniki, Greece

13:00-14:40	Symposium 4	ROOM IV
	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 me	echanisms
L4	<b>Natasa Loncarevic-Vasiljkovic:</b> Therapeutic potential of dietary re TBI	estriction in
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	on
L2	Panagiotis Politis: Novel gene regulatory networks in neural dev	elopment
L3	<b>Noelia Urban</b> : Signals and factors controlling stem cell activity in t brain	the adult
L4	Federico Calegari: Regulation of neural stem cell expansion in the mamm	nalian brain
L5	<i>Jovica Ninkovic</i> : Choroid plexus secreted microRNAs maintain no cells by regulating neurogenic fate determinants	eural stem
15:00-16:40	Symposium 6	ROOM II
	The Cholinergic system - Physiology, neuroimmunology and tox Chair persons: Gabriel Amitai, Caterina Psarropoulou	icology
L1	Shani Shenhar-Tsarfaty:Imbalanced cholinergic signaling contrib cardio-vascular risks in health and disease	outes to
L2	<b>Gabriel Amitai</b> : Novel hybrid small molecule scavengers for mitig toxicity of organophosphates	gating the
L3	Israel Silman: Structure/Function relationships in the interaction and therapeutic anticholinesterases with acetylcholinesterase	of toxic
L4	Yoav Paas: Subunit stoichiometry and organization in a chloride Cys-loop receptor	selective
L5	<i>Caterina Psarropoulou</i> :Immature seizures and plasticity of CNS neurotransmission	cholinergic

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15:00-16:40	Symposium 7	<b>ROOM III</b>
	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 ex and spatial perception in healthy and brain-damaged participants	
L3	<b>Benedetta Heimler</b> : The origins of metamodality in visual tools a Bodily topographical biases and increased functional connectivity	
L4	<i>Konstantinos Tsagkaridis</i> : How can we boost action semantics in controls and impaired patients to facilitate perception?	healthy
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 m formation	nemory
L2	<b>Pascale Gisquet-Verrier</b> : Post traumatic stress disorder and Subst disorder: Two pathologies of memory due to dysfunction of mer reactivation?	
L3	<i>Gal Richter Levin</i> : A novel approach to PTSD modeling in rats - al patterns of limbic activity in different types of stress reaction	ternating
L4	<i>Martine Ammassari-Teule:</i> The efficacy of propranolol in decrease memory and resetting neuronal connectivity to pre-trauma level on the genotype-predominant memory system	-
16:40-17:40	Plenary Lecture 1	ROOM I
	Chair persons: Selma Kanazir, Fotini Stylianopoulou	
	<i>Carmen Sandi:</i> The neurobiology of social hierarchies: from rode neuroeconomics	nts to
17:40-18:40	Welcome Cocktail	
19:30	Presidential Lecture Aristotle University of Th	essaloniki
	John O' Keefe: Can Entorhinal Grid cells provide the metric for th Map	e Cognitive

# 7-10 October 2015

«Ioannis Vellidis» Congress Center, Thessaloniki, 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 Kramarski: Autophagy, Beclin 1 and neurodegeneration
L2	<i>Cecilia Bucci</i> : 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	<i>Hagit Eldar-Finkelman</i> : GSK-3 interacts with lysosome networking and contributes to neurodegeneration
09:00- 10:40	Symposium 10 ROOM II
	Drug Addiction: reward, memory and addiction Chair persons: Rami Yaka, Ami Citri
L1	Segev Barak: Memory replacement by post-retrieval counterconditioning: a new approach of relapse prevention in substance use disorders
L2	<i>Rainer Spanagel:</i> A common molecular mechanism for drug and natural reward-seeking
L3	Rami Yaka: Targeting drug-cue associations to prevent cocaine reward
L4	<i>Ami Citri</i> : Transcription networks provide insight into the neural circuitry of addiction
L5	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	<i>Alon Monsonego</i> : Adaptive immunity in the progression and treatment of Alzheimer's Disease
L3	Ingo Bechmann: Microglia in human Alzheimer's Disease and obesity

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## 09:00-10:40 **ROOM IV** Symposium 12 Novel developments in spinal cord injury and repair Chair person: Rebecca Matsas L1 Michal Schwartz: The immune system contribution to repair under acute and chronic CNS degeneration L2 Stefano Pluchino: How stem cells speak with immune cells L3 **Rebecca Matsas:** Cell therapy for CNS repair: interplay between transplanted and endogenous cells Florentia Papastefanaki: Functionalized gold nanoparticles as drug delivery L4 systems 10:40-11:00 Coffee Break 11:00-12:00 **Plenary Lecture 2 ROOM I** Chair persons: George Kostopoulos, Costas Papatheodoropoulos Nikos Logothetis: NET-fMRI of Large-Scale brain networks: Mapping dynamic connectivity during epochs of synaptic and system consolidation **Special Interest 1 ROOM I** 12:00-13:40 Chair person: Esty Shohami **Rafi Aviram**: Neuro for the Naïve – Developing Outreach Programs at the Edmond and Lily Safra Center for Brain Science 12:00-13:40 **Special Interest 2 ROOM II** Chair person: Monica di Luca Roberto Caminiti: Transparency in animal research and its cost

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12:00-13:40	Symposium 13	ROOM III	5
	Neuroinflammation and neuroprotection in the CNS Chair person: Nadezda Nedeljkovic		ednes
L1	<b>Talma Brenner</b> : $\alpha$ 7 nicotinic acetylcholine receptor and RIC-3 in t cholinergic anti-inflammatory pathway	the	day 7 C
L2	Nadezda Nedeljkovic: Ectonucleotidases in neuroinflammation		Cto
L3	<i>Dimitrios Karussis</i> : Stem cell therapies in neuroinflammatory and degenerative diseases: The evidence and the promise	d neuro-	ber 2015
12:00-13:40	Symposium 14	ROOM IV	
	Development of the cerebral cortex and retina Chair persons: Nada Zecevic, Sanja Ivkovic		Thursc
L1	Nada Zecevic: Cortical Interneuron development in primates		Jay
L2	<b>Nevena Radonjic:</b> Sonic hedgehog: The role of ventral morphoge developing human cortex?	en in the	Thursday 8 October 2015
L3	<i>Sanja Ivkovic</i> : Continuous EGF signaling in postnatal retina leads increase in the number of photoreceptor progenitors	to the	ber 20
L4	<i>Pavle Andjus</i> : Enriched environment, brain plasticity and the role tenascin C in postnatal development	e of	15
13:40- 15:15	Lunch Break – Poster Session 1		Friday 9
15:15-16:55	Symposium 15	ROOM I	000
	Spinal Cord circuitry and Locomotion Chair persons: Maria Albani, Urzula Slawinska		tober 2
L1	Athanasios Chatzisotiriou: Improving locomotion after spinal con	rd injury	015
L2	<i>Urszula Slawinska</i> : How to activate the spinal circuitry for walkin paraplegic rats?	ıg in	
L3	<i>Maria Knikou</i> : Metamorphosis of human spinal neuronal networ locomotor training	·ks after	Saturday 10 October 20
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15:15-16:55	Symposium 16	ROOM II
	<b>Targeting Neurodegenerative diseases: from bench to bedside</b> Chair persons: <b>Orly Weinreb, Illana Gozes</b>	
L1	<b>Ioannis Sotiropoulos</b> : $A\beta$ and Tau therapeutics in stress-driven by pathology: exploring the path from depression to Alzheimer's di	
L2	<b>Illana Gozes</b> : Tau protein as a converging target of synaptic prot pathology: novel evidence beyond Alzheimer's disease	ection and
L3	<b>Orly Weinreb</b> : Multimodal neuroprotective iron chelators: Nove therapeutic strategy for Parkinson's disease	I
L4	<b>Danny Offen:</b> Gene therapy enhancing the glutamate uptake sys symptom onset and prolonged survival in a mouse model of AL	,
15:15-16:55	Symposium 17/	ROOM III
	Brain signal analysis Chair persons: Gary Green, Panos Bamidis	
L1	Gary Green: MEG analysis of brain activity: IT tools, methodolog recent results	gies and
L2	<b>Tal Dotan Ben-Soussan</b> : From sensorimotor activation and conr cognition: The Quadrato motor training model	ectivity to
L3	Panos Bamidis: Analysing data from affective neuroscience prot	cools
L4	<i>Nikos Laskaris</i> : MINeD Graphs from time-resolved functional br connectomics'	ain
15:15-16:55	Symposium 18	ROOM IV
	Inhibitory synaptic plasticity and its role in CNS pathologies Chair persons: Miho Terunuma, Stephen Moss	
L1	Stephen Moss: Neurosteroid regulation of GABAAR membrane t and its contribution to autism spectrum disorders	rafficking
L2	<b>Sabine Lévi:</b> Rapid control of KCC2 co-transporter membrane dy stability and function by excitation and inhibition	mamics,
L3	<i>Miho Terunuma</i> : Altered GABA(B) receptor function by obesity- metabolic stress	associated
L4	<b>Theofilos Papadopoulos</b> : Phosphoinositide-dependent activation Collybistin - from inhibitory postsynapse formation to epilepsy a	
	retardation	
16:55- 17:35	retardation <i>Hot Topic 1</i>	ROOM I
16:55- 17:35		
<u>16:55- 17:35</u>	Hot Topic 1	ROOM I
<u>16:55-17:35</u> 17:35-18:35	Hot Topic 1 Chair persons: Spyros Efthimiopoulos, Gabriel Amitai Moussa Youdim: Why multi target neurorestorative drugs for Pa	ROOM I

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7-10 October 2015

«Ioannis Vellidis» Congress Center, Thessaloniki, Greece

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	<i>Ada Mitsacos</i> : Receptor studies and transplantations in mouse models of Parkinson's disease
L4	Nikolaos Grigoriadis: CNS stem cells
09:00- 10:40	Symposium 20 ROOM II
	<b>Cellular and molecular mechanisms of synaptic plasticity and memory</b> Chair persons: <b>Mike Stewart, Peter Giese</b>
L1	Kasia Radwanska: Mechanism for long-term memory formation when synaptic strengthening is impaired
L2	<i>Kobi Rosenblum</i> : 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 III
	Molecular mechanisms of social behavior Chair persons: Jelena Radulovic, Shlomo Wagnert
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	<i>Fotini Stylianopoulou:</i> 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

Regional Meeting 2015

SCIENTIFIC PROGRAM

Featured

#### 10:40-11:00 Coffee Break 11:00 -12:00 **Plenary Lecture 3** ROOM I Chair persons: Efstratios K. Kosmidis, Panayiota Poirazi Sean Hill: The Human Brain Project **Special Interest 3 ROOM I** 12:00-13:40 What does FENS for you? Meeting on excellent training opportunities L1 Menno Witter: Welcome and introduction L2 Alicia Puścian: Better together - efficient assessment of social interactions in rodents L3 Lucia Maria Sacheli: Social grasps along development: a joint-action study on preschooler and adults L4 Vincent Paget Blanc: The state-of-the-art tools to assess behaviour insights from the Behaviour and Neural Systems CAJAL course L5 Marija Stanojevic: ELECTRAIN 2015 – dulce cum utili L6 Menno Witter: What are the training activities of FENS 12:00-13:40 **Special Interest 4 ROOM II** History of Neuroscience: Understanding the origins and the development of Neuroscience from the Ancient Greek era till today Lorenzo Lorusso: Chairman's introductory remarks L1 L2 Marco Piccolino: Sands, stars and visions between Archimedes and Galileo *Lazaros C. Triarhou*: Curtailed aspects of Cajal's tips on scientific research: L3 including an audio documentary L4 *Richard Brown, Laura Sand*: Sherrington's box of wonders: the recently rediscovered histological slides of Sir Charles L5 Shaul Hochstein: History of Neuroscience in Israel L6 Ljubisav Rakic: History of Neuroscience in Serbia L7 George Kostopoulos: History of Neuroscience in Greece

### SCIENTIFIC PROGRAM

12:00- 13:40	Symposium 22 ROOM III
	The brainstem - from development to function Chair persons: Dalit Sela-Donenfeld, Yosef Yarom
L1	<i>David Wilkinson</i> : Roles and regulation of boundary formation in the zebrafish hindbrain
L2	<i>Dalit Sela-Donenfeld</i> : Decoding the connectome formation of the auditory and ION hindbrain neurons
L3	Hans Gerd Nothwang: 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	Yuval Nir: 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	<i>Susan Sara</i> : Locus coeruleus in time with forebrain oscillations: implication for memory processing
13:40- 15:15	Lunch Break – Poster Session II

### 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

## SCIENTIFIC PROGRAM

15:55- 17:35	Symposium 24 ROO	MI
	Behavioral aspects in animal models. Environmental manipulations and pharmacological interventions Chair persons: Brenda J. Anderson, Despina A. Tata	d
L1	<i>Brenda J. Anderson</i> : Adaptations to repeated unpredictable threats in a chronic living environment: A double edged sword	
L2	<i>Philippos Karalis</i> : Cognitive and behavioral consequences of neonatal hypoxia-ischemia of the brain: the effect of therapeutic interventions	
L3	<b>Despina A. 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 reactivit and behaviour following maternal separation	tγ
15:55- 17:35	Symposium 25 ROOI	мII
	Nicotinic acetylcholine receptors: From genes and synapses to network and cognition Chair persons:Eleni Konsolaki, Irini Skaliora	ĸs
L1	<i>Huibert Mansvelder</i> : Nicotinic receptors in rodent and human cortical circuits	
L2	<i>Mario Marchi</i> : Functional interaction between nicotinic and glutamaters receptors at nerve terminal level: a fine tuning of synaptic signals	gic
L3	Fani Koukouli: Crucial role of CHRNA5 in drug addiction and cognition	
L4	<i>Charalambos Sigalas</i> : Nicotinic modulation of cortical network activity a cognitive processes	and
15:55- 17:35	Symposium 26 ROON	л III
	The impact of receptor-receptor interactions on brain plasticity Chair persons: Dasiel O. Borroto-Escuela, Kjell Fuxe	
L1	<i>Fang Liu</i> :Targeting protein-protein interaction to develop novel therapeutics for the treatment of schizophrenia	
L2	<i>Marc Flajolet:</i> When G-protein coupled receptors and tyrosine kinase receptors collide into one world of signaling	
L3	<i>Eero Castrén</i> : Neurotrophin receptor TrkB interacting proteins in neuron plasticity	nal
L4	<i>Kjell Fuxe</i> : Changes in GPCR heteroreceptor complexes as a molecular bat for schizophrenia and depression and their treatment	asis
L5	<i>Dasiel O. Borroto-Escuela</i> : Allosteric receptor-receptor interactions in GPCR-RTK heteroreceptor complexes. Relevance for brain plasticity	

### SCIENTIFIC PROGRAM

15:55- 17:35	Symposium 27	ROOM IV
	Innovative technologies for biomarker discovery in neuroscie Chair persons: Anthony Tsarbopoulos, Michaela Filiou	nce
L1	<b>Anthony Tsarbopoulos:</b> Use of MS-based methodologies for so bioactive compounds as anti-amyloidogenic agents and identif biomarkers	-
L2	<i>Michaela Filiou</i> : Revealing protein expression and turnover char psychiatric disorders by <sup>15</sup> N metabolic labeling and multi-isotope	-
L3	<i>Evangelos Gikas</i> : Metabolism and metabolomics using MS: a p for neuroscience	owerful tool
L4	<i>Michalis Aivaliotis</i> : Decoding systems-wide signaling pathways based quantitative phosphoproteomics to unravel disease meet	
17:35-18:15	Hot Topic 3	ROOM I
	Chair persons: Dejan Zecevic, Efstratios K. Kosmidis	
	<i>Lawrence Cohen:</i> Imag(in)ing the future of optical recording or potential	fmembrane
18:15- 19:15	Special Interest 5	ROOM I

#### **Special Interest 5** 18:15-19:15

#### **EJN BEST PUBLICATION AWARD** Chair person: Paul Bolam

Silvina Diaz: Paradoxical increase in survival of newborn neurons in the dentate gyrus of mice with constitutive depletion of serotonin

# SCIENTIFIC PROGRAM

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	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	<i>Katerina Paleologou</i> : The effect of a-synuclein mutations on Serine 129 phosphorylation
	L2	<i>Leonidas Stefanis</i> : 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	<i>Nadia Stefanova</i> : 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
		<b>Common mechanisms in pathophysiology of neurodegenerative disorders</b> Chair persons: <b>Christina Dalla, Ioannis Sotiropoulos</b>
	L1	<i>Christina Dalla</i> : Sex-dependent brain vulnerability to neuropsychiatric and neurodegenerative disorders
	L2	<i>Ehud Cohen</i> : Cyclophilin malfunction underlies the development of distinct late-onset, neurodegenerative maladies
	L3	<i>Adrian Israelson</i> : Misfolded SOD1 as a therapeutic target in amyotrophic lateral sclerosis
	L4	<i>Ioannis 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	<i>Myrto Denaxa</i> : 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

L4	<i>Kyriaki Sidiropoulou &amp; Domna Karagogeos</i> : Genetic models of decreased GABAergic inhibition in the mouse & postnatal development of prefrontal cortical structure and function in the mouse	
09:00- 10:40	Symposium 31 ROOM IV	
	Real-time optical Imaging; from a single spine to the intact brain Chair persons: Dejan Zecevic, Amiram Grinvald	
L1	<i>Dejan Zecevic</i> : Subthreshold electrical signaling in dendritic spines: a voltage-imaging study	
L2	<b>Amiram Grinvald</b> : Real-time VSD based optical Imaging revealed the bi-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 ROOM I	
	Chair person: Nikos Grigoriadis	
	<b>Evan Snyder</b> : Cross-talk between stem cells and the neurodegenerative environment	
12:00-13:40	Special Interest 6 ROOM I	
	IBRO Alumni Lecture Chair person: Susan J. Sara	
	<i>Einat Shetreet:</i> fMRI contribution to theories of language acquisition	
12:00-13:40	Symposium 32 ROOM II	
	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, stroke and cognitive impairment	
L4	<i>George Ntaios</i> : Ischaemic stroke in diabetes: is it really a macrovascular complication?	

## SCIENTIFIC PROGRAM

12:00-13:40	Symposium 33 ROOM III
	From genes to behavior: putting together the puzzle pieces of treatment of mood disorders Chair persons: Claude Brodski, Miroslav Savic
L1	<i>Claude Brodski</i> : Abnormal development of monoaminergic neurons is implicated in mood fluctuations and bipolar disorder
L2	Miroslav Savic: Pharmacological elucidation of the role of GABAA receptors in anxiety
L3	Marin Jukic: The involvement of CYP2C19 in stress-induced despair
L4	<i>Galila Agam</i> : Some of lithium's neuroprotective effects are mediated via its modulation of inositol metabolism and autophagy
13:40- 15:15	Lunch Break – Poster Session III
15:15-16:55	Symposium 34 ROOM I
	Aging and aging-associated diseases Chair persons: Selma Kanazir, Efstathios Gonos
L1	Silva Hecimovic: Lysosomal dysfunction in neurodegenerative diseases
L2	<i>Roosmarijn Vandenbroucke</i> : The role of the 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 II
	Active dendritic integration: from computation to behaviour Chair persons: Christian Wozny, Stephen R. Williams
L1	<i>Panayiota Poirazi</i> : Linking memories across time via synapse clustering in nonlinear dendrites
L2	<i>Christian Wozny</i> : 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	<i>Jackie Schiller</i> : Participation of active dendritic processing in selectivity tuning of cortical neurons

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15:15-16:55	Symposium 36 ROOM III
	Computational neuroscience: From systems to molecules Chair persons: Alain Destexhe, Khashayar Pakdaman
L1	<i>Dora Angelaki:</i> Multisensory integration for heading perception and spatial navigation
L2	<i>Alain Destexhe</i> : Relating multiple scales of neuronal activity, from cellular to mesoscopic levels
L3	Khashayar Pakdaman: Stochasticity in single neuron models
L4	Efstratios K. Kosmidis: Modeling intracellular pathways
16:55-17:55	Hot Topic 4 ROOM I
	Chair person: <i>Sabera Ruzdijic</i> <i>Marian Joëls:</i> Emerging role of brain mineralcorticoid receptors
17:55-18:55	Oral Presentation of Posters Winners ROOM I
	Chair person: Rami Yaka
	OS1-NC7: A gating role of mediodorsal thalamus for ripple–associated hippocampal-cortical information transfer <u>M.Yang</u> , N.K. Logothetis, O.Eschenko
	OS2-CL8: Gene Expression Profiling Identifies Blood Glucocorticoid Receptor Signaling as a Biomarker of Brain Signaling and Treatment Target in PTSD <u>Nikolaos P. Daskalakis</u> , Hagit Cohen, Rasha Hammamieh, Guiqing Cai, Marti Jett, Janine Flory, Charles Marmar, Joseph D. Buxbaum, Bin Zhang, Rachel Yehuda
	OS3-NE1: Quantitative Analysis of Pyramidal Cells Morphologies: From Rat to Human <u>Deitcher Y</u> ., Eyal G., Atenekeng Kahou G.A., Telefont M., Mansvelder H.D., de Kock C.P.J., Segev I.
	OS4-MO72: Age-associated immunological dysfunction of the brain's choroid plexus negatively affects cognition and hippocampal neurogenesis Baruch K., Deczkowska A., Schwartz M.
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