

## **FINAL REPORT FOR ISN**



**Title :** 7<sup>th</sup> Mediterranean Neuroscience Conference

**Name of main organizer:** Youssef ANOUAR

**Dates & Location:** June 23-27, 2019, Marrakech, Morocco

**7<sup>th</sup> Conference of the Mediterranean Neuroscience Society (MNS)**

**Marrakech, Morocco, 23-27 June 2019**

After six previous successful editions (Montpellier 1997, Marrakech 2006, Alexandria 2009, Istanbul 2012, Pula 2015 and Malta 2017), the 7<sup>th</sup> Edition of the Meeting of the Mediterranean Neuroscience Society (MNS) took place in Marrakech, Morocco on June 23-27, 2019. The 2019 MNS Meeting gathered 467 participants from 42 different countries, including Canada, USA, Australia, but also Ghana, Saudi Arabia and Tunisia, and offered a rich scientific program with 7 Plenary Lecturers, 71 symposia, 36 Oral Communications, 2 Poster Sessions and 1 workshop. Social events included a welcome cocktail free for all participants (June 23, evening), a Gala Dinner (June 26, evening) with local music and shows, and excursions to different regions in South of Morocco (Marrakech, Essaouira, Ouzoud falls, Ourika Valley and Ouarzazate) to have a taste of the Moroccan culture and society.

As reported in detail in the scientific program here attached, in this meeting we had the pleasure of welcoming an exceptional lineup of Lecturers from Spain (Agnès Gruart), Italy (Giorgio Racagni), Switzerland (Carmen Sandi), France (Vincent Prévot) and USA (Yasmin Hurd). In addition, a special plenary lecture on the “Neurobiology of adaptations to desert biotope, lessons from camel and goat studies” was given by a local scientist, Pr Khalid El Allali to highlight neuroscience research in the South Mediterranean area.

The topics of the Lectures witnessed the interdisciplinary nature of the meeting by encompassing several different topics, including learning and memory, neuroadaptation, neurometabolomics, addiction, antipsychotic drugs and neurodegenerative disease. Plenary Lecturers were partially sponsored by prestigious and Scientific Societies such as the European Brain Behaviour Society (EBBS), the French Societies of Neuroendocrinology and Cell Biology, the Spanish Society of Neuroscience (SENC) as well as by the Frontiers open-access Journals, the University of Rouen Normandy, the Normandy Region and the European Community.

In line with the scientific interests of symposia organizers and invited speakers, many symposia were focused on the pharmacological modulation of emotional states and behaviour as well as on the neurobiology of neuropsychiatric disorders. Drug and food addiction, pain, mood disorders (mostly anxiety and depression), motor impairment, animal models of neurological and psychiatric diseases, social and play behavior, memory, learning and cognition are only few examples. Indeed, speakers illustrated new advances on the nervous system functioning from molecular and cellular to behavioral level, including pathogenesis of neurodegenerative disorders, and discussed the development of and novel therapeutic approaches to mental diseases, signaling mechanisms of lipid molecules like endocannabinoids, structural features and physiological roles of ion channels, epigenetic mechanisms in pathological addictions, molecular regulation of neurotransmitter and G-protein coupled receptors, microbiota and brain axis and much more. Particular attention has been given to gender differences in mental health and disease, to translational potentials of latest findings in basic research, to personal genomics in psychiatric disorders, and to the circadian clock as an interface between the physiological processes and the environment. State-of-the art technology has been illustrated in dedicated symposia, along with newest discoveries on the role of brain neurotransmitters in regulating reward, memory, learning, cognition, sleep, motor functions, pain, eating behavior, stress and emotions.

Besides the symposia, four separate sessions of Oral Communications have been dedicated to the latest innovative findings and to youngest researchers (PhD and post-doc students) that have been selected based on the quality of the abstracts of their work (Free Oral Communications). During the

Poster Sessions, Poster Presenters (mostly PhD and post doc Students) had the opportunity to present their own work and to discuss data with senior neuroscientists coming from different disciplines and Mediterranean countries. A workshop has been organized on “How to get a paper published, read and cited” where Editors, publishers and reviewers provided ample advice to publish scientific research work. The meetings have proved to be highly beneficial, not only for the scientific exchanges, but also in terms of training opportunities for students and young researchers.

Thanks to financial support from the International Society of Neurochemistry (ISN), the Pan European Regional Committee for the International Brain Research Organization (IBRO-PERC) and the International Union of Biochemistry and Molecular Biology, we have been able to provide 24 Travel Grants (500 euro each) to PhD students and Post-docs presenting posters or giving a talk at the 2019 MNS Meeting. Selection has been made based on the scientific impact of the Abstract, the CV and the country of origin, with priority given to youngest researchers coming from Countries with limited resources. In addition, several other awards and prizes have been provided to other young participants for oral communications and poster presentations (200 € each and books).

**Below is the list of the 24 recipients of the travel grants**

(see also AWARDS and PRIZES at <https://www.mnsmeeting2019.com>)

1. **Ainani Hassan**  
*Hassan II Institute of Agronomy and Veterinary Medicine, Rabat, Morocco*
2. **Akki Rachid**  
*Department of Biology, Faculty of Sciences, University Abdelmalek Essaadi, Tetouan, Morocco*
3. **Alkhouri Abboud Cynthia**  
*Université du Saint Esprit Kaslik, Jounieh, Lebanon*
4. **Anfal Ahmad AbuHilal**  
*Palestinian Neuroscience Initiative, Al-Quds University, Jerusalem, Palestine*
5. **Anzilotti Serenella**  
*IRCCS SDN, Napoli, Italy*
6. **AranzaWille-Bille**  
*INIMEC-CONICET-UNC, Cordoba, Argentina*
7. **Ayad Youmna Nasser**  
*Biochemistry Department, Faculty of Science, Alexandria University, Alexandria, Egypt*
8. **Castelli Valentina**  
*Dipartimento di Biomedicina Sperimentale e Neuroscienze Cliniche, Palermo, Italy*
9. **Choukairi Zineb**  
*School of Science and Technology, Mohammedia, Morocco*
10. **Deidda Gabriele**  
*Department of Physiology & Biochemistry, Malta University, Malta*
11. **del Mar Reus Garcia Maria**  
*División de Neurociencias, Universidad Pablo de Olavide, Sevilla, Spain*

- 12. El Assli Hicham**  
*Laboratory of biological engineering, University Sultan Moulay Slimane,  
Faculty of Science and Technology, Béni Mellal, Morocco*
- 13. Fois Giulia Raffaella**  
*University of Bordeaux, Neurodegenerative Diseases Institute (IMN), Bordeaux, France*
- 14. Frouni Imane**  
*Montreal Neurological Institute, Montreal, Canada*
- 15. Hammer Niklas**  
*Goethe University, Institute of Neurophysiology, Frankfurt, Germany*
- 16. Hsaini Asmae**  
*Health and Environment Laboratory, Faculty of Sciences. Ibn Tofail University, Kenitra, Morocco*
- 17. Karmon Gidon**  
*Tel Aviv University, Herzeliya, Israel*
- 18. Kokras Nikolaos**  
*Department of Pharmacology, Athens, Greece*
- 19. Otomo Kanako**  
*Goethe University Frankfurt, Institute of Neurophysiology, Frankfurt, Germany*
- 20. Padovani Laura**  
*University of Verona, Diagnostics and Public Health, Verona, Italy*
- 21. Patricio Patricia**  
*ICVS - Life and Health Sciences Research Institute, Braga, Portugal*
- 22. Salgado- Ferrer Marlène**  
*University of Strasbourg, Faculté des Sciences de la Vie, Strasbourg, France*
- 23. Salman Ayman Ahmad**  
*Palestinian Neuroscience Initiative, Al-Quds University, Nablus, Palestine*
- 24. Stark Tibor**  
*Max Planck Institute of Psychiatry, Stress Neurobiology and Neurogenetics, Munich, Germany*

As MNS members, the organizers were committed to formation/education of the new generation of neuroscientists and were trying to disseminate the information about mental health and disease in general, and neuroscience in particular. This event was originally organized to allow scientific exchange activities throughout the South and North Mediterranean Neuroscience Community. Yet, the immediate interest for this Meeting shown by leading scientists working in non-Mediterranean Countries (including USA, Canada and Australia) confirmed the importance to extend such exchanges, not only from a scientific point of view, but also for cultural and social reasons.

We are proud to have reached our ultimate objective to advance the understanding of the brain and the nervous system by bringing together scientists of diverse backgrounds, and by encouraging translational research and the application of new scientific knowledge to improve disease treatments and cures.

In our view and that of all participants (see comments below), the meeting was a complete success from several points of view, with participation of over 300 international speakers from the North and South shores of the Mediterranean sea, from the USA, Canada and Australia and of 120 students and 59 post-docs. We had exciting Plenary Lecturers and successful poster sessions with excellent presentations and discussions. Students had the possibility to discuss their results with international leaders in many fields of Neuroscience, 36 of them were selected to present their data orally in dedicated Oral Free Communication Sessions, and 24 PhD/post-doc students were assigned Travel Grants thanks to ISN and Other sponsors financial support, and many students established contact for possible post-doc or short-stay visits in the USA and Europe.

Below is the financial report detailing how the total amount of money granted was used:

- 20 TRAVEL GRANTS (500 € EACH): 10 000 €
- SUPPLY OF SERVICES (Accommodation for plenary speakers, shuttles for attendees): 7 000€
- Total: 17 000 € (20 000 \$).

Sincerely yours

Rouen, 30 September 2019



Youssef Anouar

President of the 2019 MNS Meeting

## ORGANIZED UNDER THE AUSPICES OF



## SPONSORS



**Sunday, June 23<sup>rd</sup> 2019**

08:30-18:00	Registration	RISSANI HALL
10:00-10:20	Welcome to MNS Meeting	RISSANI ROOM
	<b>Liana FATTORE</b> ( <i>MNS President</i> ), <b>Giuseppe DI GIOVANNI</b> ( <i>MNS Vice President</i> ), <b>Youssef ANOUAR</b> ( <i>MNS2019 President</i> ).	
10:20-11:05	<b>PLENARY LECTURE # 1</b>	RISSANI ROOM
	<b>Carmen SANDI</b> ( <i>Lausanne, Switzerland</i> ): "Brain mitochondria in anxiety and stress-coping behaviors"	
	Chair: <b>Patrizia CAMPOLONGO</b> ( <i>Rome, Italy</i> )	
11:10-13:10	<b>SYMPOSIA 1-4</b>	
	<b>S1: "Wired for eating: impact of early life experiences on brain feeding circuits"</b>	
	Chairs: <b>Sébastien BOURET</b> ( <i>Lille, France</i> ) & <b>Susan OZANNE</b> ( <i>Cambridge, United Kingdom</i> )	
	RISSANI ROOM	
	<b>Susan OZANNE</b> ( <i>Cambridge, United Kingdom</i> ): "Nutritional programming of cardio-metabolic disease by maternal obesity"	
	<b>Mohammed TAOUIS</b> ( <i>Paris, France</i> ): "Hypothalamic miRNAs contribute to leptin-dependent central regulation of energy homeostasis"	
	<b>Sébastien G. BOURET</b> ( <i>Lille, France</i> ): "Early neurodevelopmental influences on obesity and Type 2 diabetes"	
	<b>Georgina CANO</b> ( <i>Pittsburgh, USA</i> ): "Effect of early-life high fat diet on brain circuitry controlling the sympathetic outflow to adipose tissues"	
	<b>S2: "The immune/inflammatory response as a common clue in neurodegenerative disorders: central and peripheral aspects"</b>	
	Chairs: <b>Renato BERNARDINI</b> ( <i>Catania, Italy</i> ) & <b>Dan FRENKEL</b> ( <i>Tel Aviv, Israel</i> )	
	TINMEL ROOM	
	<b>Giuseppina CANTARELLA</b> ( <i>Catania, Italy</i> ): "Re-balance of systemic immune response restrains neuroinflammation in murine Alzheimer's models"	
	<b>Ronit PINKAS-KRAMARSKI</b> ( <i>Tel Aviv, Israel</i> ): "Autophagy in neurodegeneration and Alzheimer's"	
	<b>Anna CARTA</b> ( <i>Cagliari, Italy</i> ): "Microglia phagocytosis and cytokines production as a target for neuroprotection in Parkinson's disease"	
	<b>Dan FRENKEL</b> ( <i>Tel Aviv, Israel</i> ): "The link between increase in brain cellular senescence and development of Alzheimer's disease like pathology"	

**S3: “Cognitive functions for action from monkey to human”**

Chair: Patrizia FATTORI (*Bologna, Italy*)

**TICHKA ROOM**

**Claudio GALLETTI** (*Bologna, Italy*): “The dorsomedial visual stream in the macaque and human brain”

**Patrizia FATTORI** (*Bologna, Italy*): “Vision for prehension in the medial parietal cortex”

**Markus LAPPE** (*Muenster, Germany*): “Oculomotor signals in visual space perception”

**Annalisa BOSCO** (*Bologna, Italy*): “Characterization of different motor strategies in reaching the 3-dimensional space in healthy and pathological conditions”

**S4: “Understanding the mechanisms how stress impacts learning and memory”**

Chair: Harm J. KRUGERS (*Amsterdam, The Netherlands*)

**IMLIL ROOM**

**Benno ROOZENDAAL** (*Nijmegen, The Netherlands*): “Basolateral amygdala noradrenergic activity enhances memory accuracy by downregulating microRNA-134 in dentate gyrus”

**Maurizio POPOLI** (*Milan, Italy*): “Dynamic dissection of the response to acute stress in prefrontal cortex: a matter of resilience or vulnerability”

**Laurent GROG** (*Bordeaux, France*): “Monitoring the interplay between stress hormone and glutamate receptors”

**Harm J. KRUGERS** (*Amsterdam, The Netherlands*): “Glucocorticoid effects on memory formation: Role of synapses and early life experiences”

13:20-14:20      **LUNCH**

14:20-16:20      **SYMPOSIA 5-7**

**S5: “Memory mechanisms in health and disease – brain regions, cell assemblies and synaptic matrix”**

Chair: Mazahir T. HASAN (*Leioa, Spain*)

**RISSANI ROOM**

**Mazahir T. HASAN** (*Leioa, Spain*): “Systems plasticity and sequential printing of memory circuits”

**Ilaria BERTOCCHI** (*Turin, Italy*): “Extracellular matrix and cellular interactions in neuroplasticity and memory”

**Patrizia CAMPOLONGO** (*Rome, Italy*): “Fear memories and posttraumatic stress disorder”

**Rolf SPRENGEL** (*Heidelberg, Germany*): “The impact of a leaky Mg<sup>2+</sup> block of the NMDA receptor in learning behaviour”

**S6: “Selective neuronal vulnerability in Parkinson disease: new insights from alpha-synuclein and dopaminergic vulnerability”**

Chair: Ledia F. Hernandez (*Madrid, Spain*)

**TINMEL ROOM**

**Ledia F. HERNANDEZ** (*Madrid, Spain*): "Habitual and goal directed behavior in a Parkinson disease model"

**Jochen ROEPER** (*Frankfurt, Germany*): "Functional & pharmacological diversity of dopamine substantia nigra neurons"

**Nicola B. MERCURI** (*Rome, Italy*): "Early functional disturbances of the dopaminergic system in a rat model of PD"

**Joshua A. GOLDBERG** (*Jerusalem, Israel*): "Adaptive responses to alpha-synuclein in neurons at risk in Parkinson's disease"

**S7: “Brain cholesterol metabolism in health and diseases”**

Chair: Nathalie THIRIET (*Poitiers, France*)

**TICHKA ROOM**

**Elsa RODRIGUES** (*Lisboa, Portugal*): "CYP46A1 in neurons: it's not just about cholesterol hydroxylation"

**Sandrine BETUING** (*Paris, France*): "Striatal regulation of cholesterol metabolism by CYP46A1 is associated with multiple benefits in Huntington's disease knock-in mice models"

**Valentina PALLOTTINI** (*Rome, Italy*): "Sex-, age- and region-dependent alterations of brain cholesterol metabolism: potential implications for autism spectrum disorder"

**Nathalie THIRIET** (*Poitiers, France*): "Role of the brain cholesterol metabolism in drug addiction"

16:20-16:40 **COFFEE BREAK**

16:40-18:40 **SYMPOSIA 8-11**

**S8: “Dendritic spines: from biophysics to neuropathology”**

Chair: Menahem SEGAL (*Rehovot, Israel*)

**RISSANI ROOM**

**Eduard KORKOTIAN** (*Rehovot, Israel*): "Dynamics of the Store-Operated calcium channel complex STIM/Orai in dendritic spine formation and plasticity"

**Carlo SALA** (*Milano, Italy*): "Linking Shank role in regulating dendritic spine morphology to synaptic transmission and cognitive functions"

**Martine AMMASSARI-TEULE** (*Rome, Italy*): "Paradoxical remodeling of spines under cognitive challenge in a mouse model of Alzheimer Disease: evidence for neural compensation phenomena"

Noam ZIV (*Haifa, Israel*): "Dendritic spines: High-principled expectations and biological realities"

**S9: "Adult neurogenesis in all its states!"**

Chair: Nora ABROUS (*Bordeaux, France*)

**TINMEL ROOM**

Harold CREMER (*Marseille, France*): "Long-term *in vivo* imaging of olfactory bulb neurogenesis"

Emilie PACARY (*Bordeaux, France*): "Rnd2: a new player in the regulation of adult hippocampal neurogenesis"

Maria LLORENS MARTIN (*Madrid, Spain*): "Adult hippocampal neurogenesis is abundant in neurologically healthy subjects and drops sharply in Alzheimer's disease patients"

Nora ABROUS (*Bordeaux, France*): "Influence of spatial learning on the integration of adult-born granule neurons"

**S10: "Challenges in drug discovery for neurodegenerative diseases: neurochemical complexes and novel drug targets"**

Chair: K.S. JAGANNATHA RAO (*Panama City, Republic of Panama*)

**TICHKA ROOM**

Muralidhar L. HEGDE (*Houston, USA*): "New discoveries on DNA repair failure as biomarker and early target for drug discoveries in neurodegenerative diseases"

Johant LAKEY-BEITIA (*Panama City, Republic of Panama*): "Synthesis and assessment of novel curcumin derivatives as potent inhibitors of inflammation and amyloid- $\beta$  aggregation in Alzheimer's disease"

K.S. JAGANNATHA RAO (*Panama City, Republic of Panama*): "Studies on DNA dynamics in neurodegenerative disorders"

David JUTRIĆ (*Zagreb, Croatia*): "Effects of the antiepileptic valproate and of the flavonone naringenin on the antioxidative defence system in the brain of C57Bl6 mouse"

**Selected presentation by a PhD student - "Valentina De Castro fellowship for young symposium speakers"**

**S11: "Brain-liver axis and glutamate homeostasis"**

Chair: Arturo ORTEGA (*Mexico City, Mexico*)

**IMLIL ROOM**

Farrukh Abbas CHAUDHRY (*Oslo, Norway*): "The Slc38 family of glutamine transporters in brain-liver axis"

Fatiha CHIGR (*Beni-Mellal, Morocco*): "Effects of inorganic mercury on general homeostasis and gut-brain interaction"

Mustapha NAJIMI (*Brussels, Belgium*): "Glutamate transporter systems in the liver"

**Arturo ORTEGA** (*Mexico City, Mexico*): "Dynamic modulation of glutamate and glutamine transporters gene expression"

18:45-19:30

**POSTER SESSION # 1**

**RISSANI HALL**

20:00

**WELCOME COCKTAIL**

Monday, June 24th 2019

08:00-08:45

PLENARY LECTURE # 2

RISSANI ROOM

**Yasmin HURD** (*New York, USA*): "The neurobiology of cannabis — deciphering its impact as "Drug" and "Medication""

Chair: Liana FATTORE (*Cagliari, Italy*)

08:50-10:50

SYMPOSIA 12-14 AND OC1

**S12: "Deep brain stimulation for psychiatric disorders: connections, effects, and mechanisms of the internal capsule and subthalamic nucleus targets"**

Chair: Suzanne HABER (*Rochester, USA*)

TICHKA ROOM

**Suzanne HABER** (*Rochester, USA*): "Functional organization of the anterior limb of the internal capsule, ventral striatum and subthalamic nucleus: implications for deep brain stimulation"

**Hagai BERGMAN** (*Jerusalem, Israel*): "Physiology and deep brain stimulation of non-motor domains of the human subthalamic nucleus"

**Sabrina RAVEL** (*Marseille, France*): "High frequency but not low frequency deep brain stimulation of the subthalamic nucleus reduces motivation for cocaine while increasing that for apple sauce in the monkey"

**Eileen JOYCE** (*London, United Kingdom*): "Differential effects of ventral capsule/ventral striatum and subthalamic nucleus deep brain stimulation in obsessive compulsive disorder: clinical, cognitive and neuroimaging evidence"

**S13: "Transcriptomics, genomics and cell signaling: Probing neuroscience systems biology and facilitating gene and pathway discoveries"**

Chairs: Youssef ANOUAR (*Mont-Saint-Aignan, France*) & Lee EIDEN (*Bethesda, USA*)

TINMEL ROOM

**Abdel G. ELKAHLOUN** (*NIH, USA*): "Candesartan neuroprotection in neurodegeneration and aging; a transcriptomic analysis"

**Youssef ANOUAR** (*Mont-Saint-Aignan, France*): "What's in a name? The discovery of a neuroprotective protein through microarray analysis of PC12 cell gene expression changes underlying cell survival and differentiation"

**Lee E. EIDEN** (*Bethesda, USA*): "Neuronal signaling through the novel cyclic AMP effector NCS-Rapgef2: microarray-driven 'transitional transcriptome' analysis in health and disease"

**Nicolas DE ROUX** (*Paris, France*): "Genetics of abnormal puberty timing, new insights in mechanisms in neurodevelopment and neurodegenerative disorders"

#### **S14: "Molecular mechanisms of neuronal trafficking"**

**Chairs:** **Maité MONTERO** (*Mont-Saint-Aignan, France*) & **Nicolas VITALE** (*Strasbourg, France*)

#### **IMLIL ROOM**

**Stéphane GASMAN** (*Strasbourg, France*): « Molecular mechanisms of leptin transport across the tanyocytes of median eminence »

**Christophe LETERRIER** (*Marseille, France*): "Actin-based structures in the axon: a nanoscale view"

**Maité MONTERO** (*Mont-Saint-Aignan, France*): "The multi-faceted role of Chromogranin A in the neurosecretory process"

**Oussama EL-FAR** (*Marseille, France*): "V-ATPase V0 subunit interactions modulate SNARE-dependent neurotransmission"

**Ira MILOSEVIC** (*Göttingen, Germany*): "Regulation of vesicle acidification at the neuronal synapse"

08:50-10:50

#### **ORAL COMMUNICATIONS SESSION # 1 (1-11)**

#### **RISSANI ROOM**

**Chairs:** **Joan J. GUINOVART** (*Barcelona, Spain*) & **Bernard ATTALI** (*Tel Aviv, Israel*)

**OC-01** **Monika WOZNIAK** (*Kraków, Poland*): "The enhancement of anti-tumor effect by simultaneous administration of BRAF kinase inhibitor and mGluR1 antagonist in malignant melanoma cell line"

**OC-02** **Bernard ATTALI** (*Tel Aviv, Israel*): "M-current inhibition in hippocampal neurons triggers at different temporal scales intrinsic and synaptic homeostasis interactions"

**OC-03** **Mark W. MILLER** (*San Juan, Puerto Rico*): "Localization of adipokinetic-like immunoreactivity in the central nervous system of *Biomphalaria* ssp., intermediate hosts for schistosomiasis"

**OC-04** **Anna BRANCATO** (*Palermo, Italy*): "Vesicular glutamate transporter modulates behavioral resilience in rodents: advance in the search for innovative targets for depression"

**OC-05** **Jocelyne CABOCHE** (*Paris, France*): "Role of the non-coding RNA miR-1 in cocaine-induced molecular and behavioral responses"

**OC-06** **Zineb CHOUKAIRI** (*Mohammedia, Morocco*): "Study of the modulating effect of *Salvia Officinalis* L. and *Rosmarinus Officinalis* L. leaves on anxiety and neural activity"

**OC-07** **Pierluca COIRO** (*Vienna, Austria*): "Nuclear accumulation of HDAC4 in a maternal immune activation mouse model: a mediator of synaptic deficits ?"

- OC-08** **Roberta FACCHINETTI** (*Rome, Italy*): "Involvement of glial cells in the resilient or vulnerable response to acute stress: evidence from a preclinical model"
- OC-09** **Imane FROUNI** (*Montreal, Canada*): "Combined mGlu2 positive allosteric modulation and mGluR2 orthosteric stimulation attenuates dyskinesia and psychosis in the parkinsonian marmoset"
- OC-10** **Natascia GUIDA** (*Naples, Italy*): "The neurotoxicant PCB-95 by increasing the neuronal transcriptional repressor REST down-regulates caspase-8 and increases Ripk1, Ripk3 and MLKL expression determining necroptotic neuronal death"
- OC-11** **Joan J. GUINOVART** (*Barcelona, Spain*): "Role of neuronal glycogen in memory formation and synaptic plasticity"

10:50-11:10 **COFFEE BREAK**

11:10-13:10 **SYMPOSIA 16-19**

**S16: "Glucocorticoids and the resolution of inflammation in neuropsychiatric and neurodegenerative disorders"**

Chairs: **Enza LACIVITA** (*Bari, Italy*) & **Freddy JEANNETEAU** (*Montpellier, France*)

**RISSANI ROOM**

**Patricia PATRICIO** (*Braga, Portugal*): "Adult hippocampal cytotogenesis: behavioral correlates and function in the female brain"

**Freddy JEANNETEAU** (*Montpellier, France*): "Neurotrophic-priming of glucocorticoid actions in the brain: Putting context to glucocorticoid signaling"

**Valerio CHIURCHIÙ** (*Rome, Italy*): "Resolution of inflammation is altered in neurodegenerative diseases: novel implications for their pathogenesis and therapy"

**Enza LACIVITA** (*Bari, Italy*): "N-formyl peptide receptor 2 (FPR2) agonists have neuroprotective properties in animal models of Alzheimer disease"

**S17: "Cellular senescence from development to ageing"**

Chairs: **Isabel VARELA-NIETO** (*Madrid, Spain*) & **Vassilis GORGOULIS** (*Athens, Greece*)

**TINMEL ROOM**

**Ignacio PALMERO** (*Madrid, Spain*): "Cell senescence in physiology and pathology"

**Daniel MUNOZ-ESPIN** (*Cambridge, United Kingdom*): "Cellular senescence from development to ageing"

**Isabel VARELA-NIETO** (*Madrid, Spain*): "Cytokines IGF-1 and TGF $\beta$ 2 modulate senescence during chicken inner ear development"

**Athanassios KOTSINAS** (*Athens, Greece*): "Escape from senescence. Role in cancer"

**S18: “Epigenetic regulation of motivated behaviors”**

Chair: Mohamed KABBAJ (*Florida, USA*) & Zuoxin WANG (*Nouzilly, France*)

**TICHKA ROOM**

**Marcello WOOD** (*Irvine, USA*): “Epigenetic mechanisms in the medial habenula control reinstatement of drug-seeking behavior”

**Mohamed KABBAJ** (*Florida, USA*): “Epigenetics of social bonding in prairie voles”

**Stefania MACCARI** (*Lille, France*): “Epigenetic animal model of early life stress”

**Xin-Yun LU** (*Georgia, USA*): “Epigenetic regulation of hippocampal *Bdnf* predicts behavioral vulnerability to chronic stress”

**Zuoxin WANG** (*Florida, USA*): “The prairie vole (*Microtus ochrogaster*) model for behavioral neuroscience research: neurochemical regulation of alloparental behavior”

**S19: “Novel therapeutic strategies targeting the serotonin system”**

Chair: Umberto SPAMPINATO (*Bordeaux, France*)

**IMLIL ROOM**

**Kathryn A. CUNNINGHAM** (*Galveston, USA*): “Strategies to identify therapeutic opportunities in the treatment of addictive disorders”

**Magdalena ZANIEWSKA** (*Krakow, Poland*): “The role of serotonin (5-HT)<sub>2C</sub> receptor stimulation in nicotine withdrawal”

**Francesc ARTIGAS** (*Barcelona, Spain*): “Therapeutic potential of RNAi for the treatment of major depressive disorder”

**Véronique SGAMBATO** (*Bron, France*): “Role of the serotonergic system in Parkinson's disease”

**Umberto SPAMPINATO** (*Bordeaux, France*): “The central serotonin<sub>2B</sub> receptor: control of serotonin and dopamine systems and therapeutic implications”

13:15-14:15      **LUNCH**

14:20-16:20      **SYMPOSIA 20-23**

**S20: “New insights into the autistic brain: from physiopathology to therapeutic strategies”**

Chairs: Viviana TREZZA (*Roma, Italy*) & Julie LE-MERRER (*Nouzilly, France*)

**RISSANI ROOM**

**Stefano VICARI** (*Rome, Italy*): “Autism spectrum disorder international consortium (ASDIC): Moving towards sustainable services for autism in low- and middle- income countries”

**Jérôme BECKER** (*Nouzilly, France*): “Facilitating glutamate mGlu4 receptor activity relieves autistic-like deficits in multiple mouse models: therapeutic implications”

**Evan ELLIOTT** (*Safed, Israel*): “Microbiome-Epigenome axis in the development and treatment of autism”

**Sara SCHIAVI** (*Rome, Italy*): “Sex differences in the VPA animal model of autism: role of the endocannabinoid system”

**Selected presentation by a PhD student - “Valentina De Castro fellowship for young symposium speakers”**

**S21: “Modulation of brain transcriptional regulators: *in vivo* plasticity and neurological diseases”**

**Chairs:** Luigi FORMISANO (*Naples, Italy*)

**TINMEL ROOM**

**Fabio BENFENATI** (*Genova, Italy*): “Modulation of RESTactivity in neurological diseases”

**Mounia BENSaid** (*Rabat, Morocco*): “Identification of transcription factor FEZF2 for autism spectrum disorders diagnosis”

**Selected presentation by a PhD student - “Valentina De Castro fellowship for young symposium speakers”**

**Luigi FORMISANO** (*Naples, Italy*): “Transcriptional and epigenetic regulation of NCXs in brain ischemia”

**Pietro BALDELLI** (*Genova, Italy*): “Physiological role of REST in homeostatic plasticity”

**Michel SIMONNEAU** (*Paris, France*): “Down syndrome and autism-associated DYRK1A: an interactor with the REST/NRSF-SWI/SNF chromatin remodeling complex able to deregulate gene clusters involved in the neonatal phenotypic traits”

**S22: “The role of autophagy and the unfolded protein response in the mechanism of mood stabilization”**

**Chair:** Galila AGAM (*Beer-Sheva, Israel*)

**TICHKA ROOM**

**Changlian ZHU** (*Gothenburg, Sweden*): “Neuroprotection by selective neuronal Atg7 deletion in the immature brain after insults”

**Illana GOZES** (*Tel-Aviv, Israel*): “Autophagy plays a key role in schizophrenia: the ADNP connection”

**Galila AGAM** (*Beer-Sheva, Israel*): “Common effects of lithium treatment and of knockout mice of genes related to inositol metabolism on mitochondrial function, autophagy and brain cytokine levels – prospects for novel neuropsychiatric drug discovery”

**Miriam L. GREENBERG** (*Wayne, USA*): “Induction of the unfolded protein response by the mood stabilizer valproate”

**Sara EYAL** (*Jerusalem, Israel*): “Utility of cathepsin inhibitors in treating CNS disorders”

**S23: “New insights for assessing the mechanisms underlying psychiatric disorders to improve their therapeutic approach”**

Chairs: Vincenzo MICALE (*Catania, Italy*) & Kyriaki SIDIROPOULOU (*Crete, Greece*)

**IMLIL ROOM**

**Kyriaki SIDIROPOULOU** (*Crete, Greece*): “Sex similarities and differences in neurodevelopmental mouse models of schizophrenia”

**Claudio D'ADDARIO** (*Teramo, Italy*): “Epigenetic regulation of BDNF in bipolar disorder: link between gene and environment”

**Tibor STARK** (*Brno, Czech Republic*): “Effects of adolescent treatment with cannabinoids in neurodevelopmental animal model of schizophrenia”

**Selected presentation by a PhD student - “Valentina De Castro fellowship for young symposium speakers”**

**Eva M. MARCO** (*Madrid, Spain*): “Sex differences in the consequences of early life stress: neurobiological and behavioral effects”

16:20-16:40 **COFFEE BREAK**

16:40-18:40 **SYMPOSIA 24-27**

**S24: “Refining the pathophysiological impact of the environment on the developing brain”**

Chair: Anthony FALLUEL-MOREL (*Mont-Saint-Aignan, France*)

**RISSANI ROOM**

**Vincent LELIÈVRE** (*Strasbourg, France*): “Maternal and environmental contributions to cortical development: lessons from vasoactive intestinal peptide (VIP)-deficient mice”

**Anthony FALLUEL-MOREL** (*Mont-Saint-Aignan, France*): “Modulation of developmental redox homeostasis, and impact on brain circuitry”

**Rochellys DIAZ HEIJTZ** (*Stockholm, Sweden*): “The gut microbiota: A key regulator of neurodevelopment and behavior”

**Pierre GRESSENS** (*Paris, France*): “Impact of Zika virus and CMV on the developing brain”

**Bruno GONZALEZ** (*Rouen, France*): “Placenta-Brain axis: Effect of alcohol consumption during pregnancy on vasculo-dependent corticogenesis of the fetal brain”

**S25: “Transcranial magnetic stimulation in addiction: focus on mechanisms and brain areas”**

Chair: Marco DIANA (*University of Sassari, Italy*)

**TINMEL ROOM**

**Tommi RAIJ** (*Chicago, USA*): “Brain stimulation treatment atlas for cocaine addiction”

**Derek BLEVINS** (*New York, USA*): “The role of TMS on drug seeking behavior”

**Mauro PETTORUSO** (*Chieti, Italy*): "From clinical data to neurobiology: results and hints from a double blind clinical study in cocaine addicts"

**Graziella MADEO** (*Baltimore, USA*): "Challenges and opportunities in creating rodent models of rTMS and other stimulation modalities"

**S26: "Astrocytes: a target of the brain noradrenergic system"**

Chair: **Robert ZOREC** (*Ljubljana, Slovenia*)

**TICHKA ROOM**

**Giampero LEANZA** (*University of Catania, Italy*): "The role of locus coeruleus-noradrenergic neurons in regulation of memory formation"

**Yuriy PANKRATOV** (*Coventry, United Kingdom & Kaliningrad, Russia*): "Astroglial adrenergic receptors in glia-neuron communications"

**Nina VARDJAN** (*Ljubljana, Slovenia*): "Adrenergic Ca<sup>2+</sup> and cAMP excitability in astrocytes: effects on glucose availability and morphological plasticity"

**Anja TESCHEMACHER** (*Bristol, United Kingdom*): "Stimulation of central noradrenaline release by L-lactate"

**S27: "New insights in the hypothalamic regulation of energy metabolism"**

Chairs: **Nicolas CHARTREL** (*Mont-Saint-Aignan, France*) & **Carole ROVERE** (*Valbonne, France*)

**IMLIL ROOM**

**Nicolas CHARTREL** (*Mont-Saint-Aignan, France*): "26RFa: a neuropeptide involved in the hypothalamic regulation of energy homeostasis"

**Ophélie LE THUC** (*Neuherberg, Germany*): "A role for mitochondrial UCP2 in astrocytes in regulating hypothalamic NPY neurons activity to adjust feeding"

**Katharina STOBBE** (*Valbonne, France*): "Role of CCL5 signaling in the establishment of diet-induced obesity and type 2 diabetes"

**Mohamed NAJIMI** (*Beni Mellal, Morocco*): "Neurohormonal control of metabolism and food intake in stressful conditions"

18:45-19:30

**PLENARY LECTURE # 3**

**RISSANI ROOM**

**Giorgio RACAGNI** (*Milano, Italy*): "Innovative aspects in the mechanism of action of antipsychotic drugs"

Chair: **Giuseppe DI GIOVANNI** (*Msida, Malta*)

19:30-20:30

**MNS GENERAL ASSEMBLY**

**RISSANI ROOM**

**Tuesday, June 25<sup>th</sup> 2019**

08:00-08:45

**PLENARY LECTURE # 4**

**RISSANI ROOM**

**Vincent PRÉVOT** (*Lille, France*): "When the hypothalamus says NO, a role for nitric oxide in fertility, olfaction and cognition"

**Chair: Youssef ANOUAR** (*Mont-Saint-Aignan, France*)

08:50-10:50

**SYMPOSIA 28-31**

**S28: "Neuroinflammation and glial plasticity in anxiety and depression: Underlying mechanisms and novel therapeutic targets"**

**Chair: Luisa PINTO** (*Braga, Portugal*)

**RISSANI ROOM**

**Raffaella MOLteni** (*Milan, Italy*): "Stress-induced vulnerability for depression: role of neuroinflammation in resilience and antidepressant-treatment"

**Nicolas SINGEWALD** (*Innsbruck, Austria*): "Inflammation-associated alterations in innate hyperanxiety: modulatory effects of anti-inflammatory treatment"

**Raz YIRMIYA** (*Jerusalem, Israel*): "The therapeutic mechanism of action of electroconvulsive therapy (ECT) involves alterations in hippocampal microglia and their interaction with adult newborn neurons"

**Luisa PINTO** (*Braga, Portugal*): "Glial plasticity as a key mechanism underlying the pathophysiology of depression"

**S29: "Neuromodulation for neurological disorders: advances in on-demand stimulation and network specific modulation"**

**Chair: Ali JAHANSHAH** (*Maastricht, The Netherlands*)

**IMLIL ROOM**

**Hagai BERGMAN** (*Jerusalem, Israel*): "Long beta episodes and closed-loop DBS therapy for movement disorders"

**Abdelhamid BENAZZOUZ** (*Bordeaux, France*): "STN DBS and non-motor symptoms of Parkinson's disease"

**Sarah HESCHAM** (*Maastricht, The Netherlands*): "Magnetothermal deep brain stimulation in freely moving mice"

**Marcus JANSSEN** (*Maastricht, The Netherlands*): "Deep brain stimulation for tinnitus: current evidence and future perspective"

**Ali JAHANSHAH** (*Maastricht, The Netherlands*): "Serotonergic neurotransmitter systems homeostasis in deep brain stimulation"

**S30: "Interrogating the role of sex steroid hormones in cognition"**

Chair: **Mylène POTIER** (*Bordeaux, France*)

**TICHKA ROOM**

**Sakina MHAOUTY KODJA** (*Paris, France*): "Role of neural sex steroid receptors in the modulation of emotional and cognitive behaviors"

**Azza SELLAMI** (*Tunis, Tunisia*): "Memory deficits in aging: from psychological processes to NR2b surface trafficking"

**István M. ÁBRAHAM** (*Pecs, Hungary*): "Rapid non-classical estradiol action on surface trafficking of neurotrophin and glutamate receptors in the plasma-membrane of live neurons"

**Christina DALLA** (*Goudi, Greece*): "Sex differences in learning and emotion: effects of pharmacological approaches"

**S31: "Dissecting the neural circuit dysfunction at the root of mental disorders"**

Chairs: **Jacques BARIK** (*Nice, France*) & **Frank MEYE** (*Utrecht, The Netherlands*)

**TINMEL ROOM**

**Jacques BARIK** (*Nice, France*): "Mesopontine cholinergic inputs to the reward system conveys depressive-like symptoms"

**Anna BEYELER** (*Bordeaux, France*): "Anatomical and functional diversity in amygdala and insula circuits"

**Frank J. MEYE** (*Utrecht, The Netherlands*): "Comfort for the troubled mind: Unravelling the neural basis for stress-feeding"

**Agnieszka ZELEK-MOLIK** (*Kraków, Poland*): "Assessment of applicability of a rat model of crowding stress to study mechanisms of hypofrontality in mental diseases"

10:50-11:10 **COFFEE BREAK**

11:10-13:10 **SYMPOSIA 32-35**

**S32: "Emerging role of HDAC inhibition in neurodegenerative diseases"**

Chair: **Lucio ANNUNZIATO** (*Naples, Italy*)

**RISSANI ROOM**

**Lucio ANNUNZIATO** (*Naples, Italy*): "Epigenetic regulation of NCX3 transcription in brain ischemia by DREAM/HDAC4/HDAC5 complex: Role of HDAC class II inhibition"

**Giuseppe RANIERI** (*Florence, Italy*): "Pharmacological regulation of HDACs in the treatment of post-ischemic brain injury"

**Marina PIZZI** (*Brescia, Italy*) "Epi-drugs in neurodegenerative diseases: what's new?"

**Giuseppe PIGNATARO** (*Naples, Italy*): "Remote ischemic postconditioning: looking for new druggable targets"

**S33: "Brain & behaviour metaplasticity"**

Chair: Christian CHIAMULERA (*Verona, Italy*)

**TINMEL ROOM**

**Wickliffe ABRAHAM** (*Dunedin, New Zealand*): "A role for TNF $\alpha$  in heterodendritic metaplasticity in both healthy and diseased hippocampus"

**Rosalina FONSECA** (*Lisboa, Portugal*): "Actin dynamics, neuronal activity and the maintenance of long-term potentiation"

**Raffaella TONINI** (*Genova, Italy*): "Plasticity of striatal endocannabinoid macromolecular complex shapes behavioral flexibility"

**Shira KNAFO** (*Leioa, Spain*): "Synaptic PTEN activation shifts synaptic plasticity towards depression while enhancing social behavior"

**Christian CHIAMULERA** (*Verona, Italy*): "Metaplastic effects of NMDA channel blockade on reward-related processes and behaviors in rats"

**S34: "Beyond pathogenesis and severity in multiple sclerosis: time to promote remyelination"** A symposium in honor of Pío del Río-Hortega in the centenary of his discovery of oligodendrocytes and microglia as the components of the "third element of the nervous system"

Chair: Fernando De CASTRO (*Madrid, Spain*)

**TICHKA ROOM**

**Bibi BIELEKOVA** (*Bethesda, USA*): "Biological basis of multiple sclerosis severity"

**Vanja TEPAVCEVIC** (*Zamudio, Spain*): "Increasing OPC recruitment to improve CNS remyelination"

**Isabelle BARDOU** (*Caen, France*): "Tissue plasminogen activator shows oligodendrocytes the road for remyelination"

**Valentina FOSSATI** (*New York, USA*): "Human iPSC-derived glia: current challenges and future perspectives"

**Fernando DE CASTRO** (*Madrid, Spain*): "Cross-species and age-related heterogeneity of brain OPCs: preclinical studies with human adult OPCs as the compass for fruitful clinical trials on remyelination"

**S35: "New GPCR targets to improve obesity, depression and epilepsy"**

Chair: Giuseppe DI GIOVANNI (*Malta*) & Evgeni PONIMASKIN (*Hannover, Germany*)

**IMLIL ROOM**

**Lora K. HEISLER** (*Aberdeen, United Kingdom*): "GPCR targets to improve obesity"

**Evgeni PONIMASKIN** (*Hannover, Germany*): "Possible role of heterodimerization between serotonin receptors 5-HT1A and 5-HT7 in depression"

**Marc RASENICK** (*Chicago, USA*): "A cAMP-dependent "Biosignature" shared by conventional and "rapid-acting" antidepressants, wherein the G Protein, G<sub>s</sub>, is translocated from lipid rafts toward a facile association with adenylyl cyclase"

**Gabriele DEIDDA** (*Msida, Malta*): "The serotonin2A receptor as a new therapeutic target to control absence seizures"

**Cristiano BOMBARDI** (*Bologna, Italy*): "Functional neuroanatomy of 5-HT2A receptor"

13:15-14:15

LUNCH

14:20-16:20

SYMPOSIA 36-40

**S36: "Glial and perivascular sensing in non-neuronal brain networking"**

Chairs: Jan Pieter KONSMAN (*Bordeaux, France*) & Klaus PETRY (*Bordeaux, France*)

RISSANI ROOM

**Agnès NADJAR** (*Bordeaux, France*): "Polyunsaturated fatty acids tune microglial shaping of neuronal circuits in the developing brain"

**Jan Pieter KONSMAN** (*Bordeaux, France*): "Brain macrophages, from border patrollers to whistleblowers during inflammation"

**Nicola MARCHI** (*Montpellier, France*): "A pericyte-glia scarring develops at the capillary level in the hippocampus during seizure activity"

**Jérôme BADAUT** (*Bordeaux, France*): "Astroglial process after a juvenile mild traumatic brain injury"

**Brahim NAIT OUMESMAR** (*Paris, France*): "Role of axon-oligodendroglial cell synaptic connectivity in (re)-myelination"

**S37: "On the role of multiple D2R heteroreceptor complexes in ADHD, schizophrenia and cocaine use disorder"**

Chairs: Kjell FUXE (*Stockholm, Sweden*)

TINMEL ROOM

**Fang LIU** (*Toronto, Canada*): "Development of a peptide targeting dopamine transporter to improve ADHD-like deficits"

**Kjell FUXE** (*Stockholm, Sweden*): "Multiple D2 heteroreceptor complexes: new targets for treatment of schizophrenia"

**Luca FERRARO** (*Ferrara, Italy*): "NT1R-D2R heteroreceptor complexes and their antagonistic allosteric receptor-receptor interactions. Relevance for schizophrenia"

**Karolina WYDRA** (*Kraków, Poland*): "On the role of adenosine (A)<sub>2</sub>A receptors and A2AR-D2R interactions in cocaine-induced reward and cocaine seeking: a pharmacological and neurochemical analysis in rats"

**Dasiel BORROTO-ESCUELA** (*Stockholm, Sweden*): "Disruption of A2AR-D2R heteroreceptor complexes after A2AR transmembrane 5 peptide administration enhances cocaine self-administration in rats"

**S38: "Comparative approaches and neuroscience research"**

**Chairs:** André CALAS (*Bordeaux, France*) & Yves TILLET (*Nouzilly, France*)

**TICHKA ROOM**

**André CALAS** (*Bordeaux, France*): "Comparative models in Neuroscience research: an overview from history"

**Massimiliano BELTRAMO** (*Nouzilly, France*): "The ewe: an animal model for comparative study of reproductive neuroendocrinology"

**Loreta MEDINA** (*Lleida, Catalonia, Spain*): "New perspectives on the organization of the amygdala based on evolutionary developmental neurobiology"

**Jean-Louis NAHON** (*Valbonne, France*): "Brain mapping and functional characterization of the human MCHR2 in a "humanized" mouse model: a novel approach to tackle species-specific loss of gene in mammals"

**S39: "Microbiota-brain axis in brain development and behavior"**

**Chair:** Sergueï FETISSOV (*Mont-Saint-Aignan, France*)

**IMLIL ROOM**

**Sylvie RABOT** (*Paris, France*): "Effect of microbiota metabolites on neuroendocrine and behavioural responses to stress"

**Gérald CLARKE** (*Cork, Ireland*): "Targeting the microbiome-gut-brain axis: translational implications for stress-related disorders"

**Roman YUNES** (*Moscow, Russia*): "The antidepressant effect of GABA-producing Lactobacilli and Bifidobacteria"

**Rochellys DIAZ HEIJTZ** (*Stockholm, Sweden*): "Bacterial peptidoglycans as novel signaling molecules from microbiota to brain"

**Sergueï FETISSOV** (*Mont-Saint-Aignan, France*): "Microbiota and host feeding and emotion"

16:20-16:40

**COFFEE BREAK**

16:40-18:40

**SYMPOSIA 40-43 AND ELSEVIER WORKHOP**

**S40: “Novel psychoactive substances (NPS): Mind over matter?”**

Chairs: Aviv WEINSTEIN (*Ariel, Israel*) & Liana FATTORE (*Cagliari, Italy*)

**RISSANI ROOM**

**Matteo MARTI** (*Ferrara, Italy*): “Neurological, sensorimotor and cardiorespiratory alterations induced by methoxetamine and dissociative drugs in mice”

**Aviv WEINSTEIN** (*Ariel, Israel*): “Chronic use of synthetic cannabinoids (SCs) is associated with impairments in cognitive function, brain's structure and function, and comorbidity with depression and schizotypal personality disorder”

**Maria Antonietta DE LUCA** (*Cagliari, Italy*): “Intravenous self-administration of the synthetic cannabinoid receptor agonist JWH-018 in adolescent mice: neurobiological sequelae in adulthood”

**Jürg GERTSCH** (*Bern, Switzerland*): “Uncovering the psychoactivity and anti-inflammatory effects of a cannabinoid from liverworts associated with a legal high”

**S41: “Neurobiological bases of natural and non-natural rewards”**

Chair: Claudio D’Addario (*Teramo, Italy*)

**TINMEL ROOM**

**Viviana TREZZA** (*Roma, Italy*): “Neurobiology of social reward: from physiology to pathophysiology”

**Claudio D’ADDARIO** (*Teramo, Italy*): “Epigenetic regulation in alcoholism: preclinical and clinical evidence”

**Francis CHAOULOFF** (*Bordeaux, France*): “Endocannabinoids gate exercise motivation”

**Stéphanie CAILLÉ** (*Bordeaux, France*): “Attentional capacities can predict the motivational properties of nicotine in rodents”

**S42: “Neurobiology of exercise: what have we learned from animal models?”**

Chairs: Mercè CORREA (*Castelló, Spain*) & John D. SALAMONE (*Storrs, USA*)

**TICHKA ROOM**

**Mercè CORREA** (*Castelló, Spain*): “Modulation of dopamine function after different types of exercise: impact on selection of active vs. passive sources of reinforcement in mice”

**John D. SALAMONE** (*Storrs, Connecticut, USA*): “Pharmacological manipulations of selection of voluntary exercise in rodents”

**José Luis FERRAN** (*Murcia, Spain*): “Dopaminergic effects and metabolic changes during an exercise program in a forced running wheel system in adolescent rats”

**Antonio TOVAL** (*Murcia, Spain*): “Dopaminergic system acts on motor performance during habituation to forced exercise”

**S43: “Sex differences in classical and novel mechanisms involved in depression”**

Chair: Christina DALLA (*Athens, Greece*)

**IMLIL ROOM**

**Nikolaos KOKRAS** (*Athens, Greece*): “Antidepressants and the HPA axis in males and females”

**Mohamed KABBAJ** (*Florida, USA*): “Sex differences in ketamine’s antidepressant effects”

**Jodi PAWLUSKI** (*Rennes, France*): “Long-term sexually differentiated effects of perinatal SSRIs on social behaviors and neuroplasticity”

**Ioannis SOTIROPOULOS** (*Braga, Portugal*): “Molecular underpinnings of sex-dependent hippocampal vulnerability in depression and Alzheimer’s disease”

**ELSEVIER WORKSHOP**

**ORANGERS ROOM**

**“HOW TO GET A PAPER PUBLISHED, READ & CITED”**

**Shamus O'REILLY, PhD** (*Senior Publisher at Elsevier Ltd*): Introduction

**Gernot RIEDEL** (*University of Aberdeen, UK - Associate Editor, Journal of Neuroscience Methods, ELSEVIER*): Authorship

**Giuseppe DI GIOVANNI** (*University of Malta, MT & Cardiff University, UK - Editor-in-Chief, Journal of Neuroscience Methods, ELSEVIER*): Editorship

**Galati SALVATORE** (*Neurocenter of Southern Switzerland, Lugano, Switzerland - Editorial Board Member, Journal of Neuroscience Methods, ELSEVIER*): Reviewership

**Open Q & A session**

Attend this workshop to find out:

- What to do before publishing
- Choosing the right journal
- Tips on writing a manuscript
- The editing process
- The reviewing process
- Ethics: plagiarism, data fabrication, authorship
- Open Access and funding policies
- Getting your paper noticed

18:45-19:45

ORAL COMMUNICATIONS SESSION # 2 (12-16)

RISSANI ROOM

**Chairs:** Mohamed NAJIMI (*Beni Mellal, Morocco*) & Giuseppina CANTARELLA (*Catania, Italy*)

- OC-12**     **Michihiro IGARASHI** (*Niigata, Japon*): “Phosphoproteomics analysis of the growth cone reveals the new molecular markers of growing axons”
- OC-13**     **Noureddine KAIKAI** (*Marrakech, Morocco*): “Sensorimotor and neurobehavioral disorders in mice exposed *in utero* to the pesticide metam sodium”
- OC-14**     **Georgios KOGIAS** (*Erlangen-Nuremberg, Germany*): “The role of Swiprosin-1/EFhd2 in resilience to psychostimulant reward”
- OC-15**     **Jawad LAADRAOUI** (*Marrakech, Morocco*): “Intracerebroventricular administration of cigarette smoke condensate induced generalized seizures reduced by muscarinic receptor antagonist in rats”
- OC-16**     **Constantin YANICOSTAS** (*Paris, France*): “A functional role of microglia in epilepsy”

19:30-20:30

POSTER SESSION # 2

RISSANI HALL

Wednesday, June 26<sup>th</sup> 2019

08:00-08:45

PLENARY LECTURE # 5

RISSANI ROOM

**Giorgio RACAGNI** (*Milano, Italy*): "Innovative aspects in the mechanism of action of antipsychotic drugs"

Chair: **Giuseppe DI GIOVANNI** (*Msida, Malta*)

08:50-10:50

SYMPOSIA 44-47

**S44: "Knock-in mouse models for Alzheimer's disease: Breakthrough or more of the same?"**

Chair: **Gernot RIEDEL** (*Aberdeen, Scotland*)

RISSANI ROOM

**Bettina PLATT** (*Aberdeen, Scotland*): "Knock-in of mutated hTAU causes behavioural and metabolic alterations, inflammation and proteostasis disturbance in a mouse model of frontotemporal dementia"

**Jacques MICHEAU** (*Bordeaux, France*): "Behavioral and MRI characterization of PLB2<sub>Tau</sub> knock in mice: a novel mouse model of familial fronto-temporal dementia"

**Szu-Han WANG** (*Edinburgh, United Kingdom*): "Deciphering dysfunctional memory processes in early ageing"

**Rudi D'HOOGHE** (*Leuven, Belgium*): "Hypersynchronous brain activity and impairments in cognitive flexibility in mouse models of Alzheimer's disease"

**S45: "New insights on endocannabinoid system-mediated synaptic transmission and plasticity in health and disease"**

Chair: **Roberto COLANGELI** (*Calgary, Canada*)

TICHKA ROOM

**Rosalina FONSECA** (*Lisbon, Portugal*): "Temporal gating of synaptic competition in the lateral amygdala by cannabinoid receptor modulation of the thalamic input"

**Jeffrey G. TASKER** (*New Orleans, USA*): "Endocannabinoid modulation of stress circuits in the basolateral amygdala"

**Roberto COLANGELI** (*Calgary, Canada*): "Role of the endocannabinoid system in comorbid cognitive and emotional alterations associated with seizures"

**Antonia MANDUCA** (*Marseille, France*): "Sex-dependent consequences of prenatal cannabinoid exposure"

**S46: “In search for the neural substrates underlying post-traumatic stress disorder symptomatology and vulnerability”**

Chair: Muriel KOEHL (*Bordeaux, France*)

**TINMEL ROOM**

**Aline DESMEDT** (*Bordeaux, France*): “Preventing and treating PTSD-like memory by the hippocampus-dependent trauma contextualization”

**Muriel KOEHL** (*Bordeaux, France*): “Vulnerability to PTSD-like memory impairments induced by stress *in utero*”

**Marloes HENCKENS** (*Nijmegen, The Netherlands*): “The neural signature of trauma susceptibility”

**Paola COLUCCI** (*Rome, Italy*): “Predicting susceptibility and resilience in an animal model of post-traumatic stress disorder (PTSD)”

**Selected presentation by a PhD student - “Valentina De Castro fellowship for young symposium speakers”**

**S47: “Messengers of pain sensitization”**

Chairs: Jacques NOEL (*Nice, France*) & Pierrick POISBEAU (*Strasbourg, France*)

**IMLIL ROOM**

**Cynthia ABBOUD** (*Beirut, Lebanon*): “The effect of Relaxin on pain: behavioral and morphological data”

**Géraldine GAZZO** (*Strasbourg, France*): “The key role of oxytocin and early life mother-infant interactions to shape the adult nociceptive system, pain sensitivity and descending controls in the rat”

**Ahmed NEGM** (*Nice, France*): “High fat diet causes hyperlipidemia and systemic inflammation associated with thermal hyperalgesia, role of ASIC3 channels”

**Wahiba SIF-EDDINE** (*Marrakech, Morocco*): “Dysfunction of the affective component of pain in ADHD animal model: effect of methylphenidate.”

10:50-11:10 **COFFEE BREAK**

11:10-13:10 **SYMPOSIA 48-51**

**S48: “New perspectives on fear memory-related neuronal networks: Integrating electrophysiological, molecular and behavioral approaches”**

Chairs: Maria MORENA (*Calgary, Canada*) & Steven LAVIOLETTE (*London, Canada*):

**RISSANI ROOM**

**Ingrid EHRLICH** (*Tübingen & Stuttgart, Germany*): “Plasticity and dopaminergic modulation of intercalated cell circuits in the amygdala”

**Raül ANDERO** (*Barcelona, Spain*): "Opposite-sex effects in molecular and behavioral signatures of fear memory consolidation"

**Maria MORENA** (*Calgary, Canada*): "Endocannabinoid regulation of the impact of stress on aversive memory processes"

**Steven LAVIOLETTE** (*London, Canada*): "Cannabinoid signaling in the mesocorticolimbic system controls rewarding and aversive emotional memory formation"

**S49: "Progress in risk factors and development of Parkinson's disease"**

Chair: **Micaela MORELLI** (*Cagliari, Italy*)

**TINMEL ROOM**

**Simone ENGELENDER** (*Haifa, Israel*): "Alpha-synuclein pathological role in Parkinson's disease"

**Per SVENNINGSSON** (*Stockholm, Sweden*): "Increased risk of Parkinson's disease: Focus on the role of Saposin C and GPR37 signaling pathways"

**Micaela MORELLI** (*Cagliari, Italy*): "Role of Rhes protein in neuroinflammation and dopamine neuron toxicity in basal ganglia: age and gender dependency"

**Patricia GARCIA-SANZ** (*Madrid, Spain*): "Cholesterol and multilamellar bodies: Lysosomal dysfunction in GBA-Parkinson disease"

**S50: "ADNP and the ADNP syndrome: From gene to autism"**

Chair: **Illana Gozes** (*Tel-Aviv, Israel*)

**TICHKA ROOM**

**Illana GOZES** (*Tel-Aviv, Israel*): "Activity-Dependent Neuroprotective Protein (ADNP) from discovery to syndrome and future treatments"

**Frank KOOY** (*Antwerp, Belgium*): "Clinical presentation and genotype-phenotype correlation of a complex neurodevelopmental disorder caused by mutations in *ADNP*"

**Markus M. HEIMESAAT** (*Berlin, Germany*): "The octapeptide NAP alleviates intestinal and extra-intestinal inflammatory sequelae of acute experimental colitis"

**Gidon KARMON** (*Tel-Aviv, Israel*): "A novel ADNP mutated mouse model: deciphering the ADNP syndrome"

**Selected presentation by a PhD student - "Valentina De Castro fellowship for young symposium speakers"**

**S51: "The flexibility of motor control: role of cortical and subcortical structures"**

Chairs: **Stefano FERRAINA** (*Rome, Italy*) & **Tiziana M FLORIO** (*L'Aquila, Italy*)

**IMLIL ROOM**

**Stefano FERRAINA** (*Rome, Italy*): "Dynamic decision making"

**Salvatore GALATI** (*Lugano, Switzerland*): "Effect of dopamine depletion in thalamo-cortical activity"

**Sabrina RAVEL** (*Aix-Marseille, France*): "Insight on the role of the input structures of basal ganglia in the control of motivated behaviors: an electrophysiological study in the monkey"

**Tiziana M FLORIO** (*University of L'Aquila, Italy*): "Basal Ganglia motor control disruption"

13:15-14:15

**LUNCH**

14:20-16:20

**SYMPOSIA 52-54**

**S52: "Developing brain in danger: critical periods of vulnerability from in-utero to adolescence"**

Chair: **Carla CANNIZZARO** (*Palermo, Italy*)

**RISSANI ROOM**

**Omry KOREN** (*Safed, Israel*): "A microbiome is born: changes to the microbiome during pregnancy and infancy"

**Miriam MELIS** (*Cagliari, Italy*): "Functional consequences of maternal marijuana exposure on offspring dopamine system"

**Carla CANNIZZARO** (*Palermo, Italy*): "Mothering under the influence: evidence of a THC-sensitive phenotype in the rat offspring"

**Sophie LAYÉ** (*Bordeaux, France*): "Early life dietary polyunsaturated fatty acids program brain wiring and behavior later in life through their effects on microglia activity"

**S53: "Systems and neural mechanisms underlying creative performance and innovation"**

Chairs: **Radwa KHALIL** (*Bremen, Germany*), **Ahmed KARIM** (*Tübingen, Germany*)  
& **Ben GODDE** (*Bremen, Germany*)

**TINMEL ROOM**

**Thomas BORAUD** (*Bordeaux, France*): "A Natural history of skills: Newt as a blueprint of the vertebrate decision making network"

**Laszlo ZABORSZKY** (*Newark, USA*): "Contribution of the basal forebrain to cortico-cortical network interactions"

**Radwa KHALIL** (*Bremen, Germany*): "How do our emotion and cognition compete to make us more creative?"

**Ahmed KARIM** (*Tübingen, Germany*): "Effects of prefrontal transcranial direct current stimulation (tDCS) on creativity and decision making"

**S54: “Therapeutic potential of the 5-HT<sub>2C</sub> receptor agonist lorcaserin for addictive disorders”**

Chair: Giuseppe DI GIOVANNI (*Msida, Malta & Cardiff, United Kingdom*) & Philippe DE DEURWAERDÈRE (*Bordeaux, France*)

**TICHKA ROOM**

**Philippe DE DEURWAERDÈRE** (*Bordeaux, France*): “Widespread effects of Lorcaserin converging toward the inhibition of mesoaccumbens dopaminergic pathway”

**Guy HIGGINS** (*Toronto, Canada*): “Lorcaserin as a treatment for substance abuse”

**Massimo PIERUCCI** (*Malta*): “Electrophysiological effects of Lorcaserin on acute and chronic nicotine-induced changes in the LHb and VTA activity”

**Charles P. FRANCE** (*San Antonio, USA*): “Preclinical assessment of lorcaserin alone and in mixtures for treating substance use disorders”

16:20-16:40

**COFFEE BREAK**

16:40-18:40

**SYMPOSIA 56-59**

**S56: “The neuropeptide relaxin<sub>3</sub> system in modulating social behavior, memory, arousal and feeding”**

Chair: Francisco E. OLUCHA-BORDONAU (*Castellón, Spain*)

**RISSANI ROOM**

**Aldo DONIZETTI** (*Naples, Italy*): “The nucleus incertus-relaxin<sub>3</sub>-RXFP<sub>3</sub> in *Danio rerio*. Evolutionary comments”

**Anna BLASIAK** (*Krakow, Poland*): “Searching for neuronal mechanism of neuropeptide’s orexigenic action - relaxin-3 signalling in paraventricular nucleus of hypothalamus”

**Andrew L. GUNDLACH** (*Melbourne, Australia*): “Deciphering actions of the relaxin-3/RXFP<sub>3</sub> system in local circuits controlling feeding, anxiety and memory: Chronic peptide and receptor depletion and activation studies”

**Francisco E. OLUCHA-BORDONAU** (*Castellón, Spain*): “Role of the nucleus incertus and the relaxin<sub>3</sub>/rxfp<sub>3</sub> system in social behavior”

**S57: “Novel insights on the role played by endocannabinoids and their lipid analogues in neuropsychiatric/neurodegenerative disorders”**

Chairs: Silvana GAETANI (*Rome, Italy*) & Paola FADDA (*Cagliari, Italy*)

**TINMEL ROOM**

**Antonia SERRANO** (*Málaga, Spain*): “Role of oleoylethanolamide on alcohol-related behaviors”

**Maria SCHERMA** (*Cagliari, Italy*): “Possible role of the endocannabinoid system in the physiopathology of Anorexia Nervosa”

**Mariangela PUCCI** (*Teramo, Italy*): "Preclinical models of binge eating behaviour: molecular evidence"

**Silvana GAETANI** (*Foggia, Italy*): "The selective inhibition of FAAH ameliorates cognitive decline, depressive-like symptoms and neuropathological alterations in a murine model of Alzheimer's disease"

**Nathalie THIRIET** (*Poitiers, France*): "Neuroprotective effects of endocannabinoids on methamphetamine's toxicity"

**S58: "Hyperkinetic movement disorders: neurobiological insights from animal models and patients"**

Chair: **Alessandro STEFANI** (*Rome, Italy*)

**TICHKA ROOM**

**Alessandro STEFANI** (*Rome, Italy*): "STN-DBS in mammalian models and clinical practice: scenes from a marriage?"

**Barbara PICCONI** (*Rome, Italy*): "Novel molecular and synaptic approaches to study Levodopa-Induced Dyskinesia in an experimental model of PD"

**Salvatore GALATI** (*Lugano, Switzerland*): "Role of cortical homeostatic plasticity in cervical dystonia"

**Alain KAEIN-LANG** (*Lugano, Switzerland*): "New insight into the pathophysiology of dystonia"

**S59: "Brain adaptation to environmental challenges"**

Chairs: **Valérie SIMONNEAUX** (*Strasbourg, France*) & **Khalid EL ALLALI** (*Rabat, Morocco*)

**IMLIL ROOM**

**Etienne CHALLET** (*Strasbourg, France*): "Impact of metabolic challenges on brain clocks"

**Sakina MHAOUTY-KODJA** (*Paris, France*): "Neural effects of environmental doses of phthalates on reproductive behaviors"

**Valérie SIMONNEAUX** (*Strasbourg, France*): "Adaptation of reproduction to geophysical changes"

**Hassan AINANI** (*Rabat, Morocco*): "Intramuscular injection of  $\beta$ -NGF induces hypothalamic neuronal activation in the dromedary camel females (*Camelus dromedarius*)"

18:45-19:30

**PLENARY LECTURE # 6**

**RISSANI ROOM**

**Khalid EL ALLALI** (*Rabat, Morocco*): "Neurobiology of adaptations to desert biotope, lessons from camel and goat studies"

Chair: **Paul PEVET** (*Strasbourg, France*)

20:30

**SOCIAL DINNER**

Thursday, June 27<sup>th</sup> 2019

08:00-08:45

PLENARY LECTURE # 7

RISSANI ROOM

**Hagai BERGMAN** (*Jerusalem, Israel*): "Computational physiology of the basal ganglia, theory and practice"

Chair: **Marc LANDRY** (*Bordeaux, France*)

08:50-10:50

SYMPOSIA 60-63

**S60: "Brain ischemia: from pathophysiology to treatment opportunities"**

Chair: **Omar TOUZANI** (*Caen, France*)

IMLIL ROOM

**Myriam BERNAUDIN** (*Caen, France*): "A combination of stem cells and an extracellular matrix agent as a new therapeutic strategy for ischemic stroke"

**Catherine LLORENS-CORTES** (*Paris, France*): "Central-acting aminopeptidase a inhibitors for new treatment of hypertension: from discovery to clinical trial"

**Omar TOUZANI** (*Caen, France*): "Impacts of chronic arterial hypertension on the neuro-glio-vascular unit"

**Ramez MOUSTAFA** (*Cairo, Egypt*): "Reperfusion therapies in acute ischemic stroke: thrombolysis in the age of thrombectomy"

**S61: "Insights into early cellular dysfunctions leading to synucleinopathies"**

Chairs: **Graziella CAPPELLETTI** (*Milano, Italy*) & **Antonella SCORZIELLO** (*Napoli, Italy*)

RISSANI ROOM

**Tiago OUTEIRO** (*Göttingen, Germany*): "Deciphering the role of posttranslational modifications on  $\alpha$ -synuclein aggregation and toxicity"

**Abid OUESLATI** (*Quebec, Canada*): "New cellular and animal models to study the role of  $\alpha$ -synuclein in the pathogenesis of synucleinopathies"

**Antonella SCORZIELLO** (*Naples, Italy*): "Mitochondrial dysfunction in cellular and animal models mimicking Parkinson's disease"

**Graziella CAPPELLETTI** (*Milan, Italy*): "The interplay between  $\alpha$ -synuclein and tubulin/microtubules in health and disease: from pure protein to human brain"

**Arianna BELLUCCI** (*Brescia, Italy*): "Novel players in alpha-synuclein-mediated synaptic damage: can we try system reboot in neurodegenerative synucleinopathies"

**S62: “Implications of redox system functions in CNS pathogenesis”**

Chairs: Amira ZAKY (Alexandria, Egypt) & Youssef ANOUAR (Mont-Saint-Aignan, France)

**TICHKA ROOM**

Isabelle LIHRMANN (Mont-Saint-Aignan, France): “Adaptation of ER redox function to metabolic activity through the new redoxin selenoprotein T”

Amira ZAKY (Alexandria, Egypt): “APE1/Ref-1 Redox function is implicated in Pain sensitization mechanism and involved in the global regulation of cellular miRNAs”

Muralidhar L. HEGDE (Houston, USA): “Stroke/ intracerebral hemorrhage: Opposing implications of Hemin-mediated genome damage in senescence versus ferroptosis: Prevention by iron chelator-antioxidant nanoformulation”

Loubna BOUKHZAR (Mont-Saint-Aignan, France): “Identification of an antioxidant peptide with potent in vivo anti-neurodegenerative actions”

**S63: “Melatonin and the circadian system: Keys for health (Part 1: fundamental approaches)”**

Chairs: Paul PEVET (France) & Nouria LAKHDAR-GHAZAL (Rabat, Morocco)

**TINMEL ROOM**

Ruud M. BUIJS (Mexico City, Mexico): “The SCN, the central player in the multi-oscillatory circadian system”

Hugh PIGGINS (Manchester, United Kingdom): “Circadian timekeeping in the lateral habenula”

Paul PÉVET (Strasbourg, France): “The hormone melatonin within the circadian system”

Marie-Paule FELDER-SCHMITTBUHL (Strasbourg, France): “Circadian clocks, retinal health and visual function”

10:50-11:10 COFFEE BREAK

11:10-13:10 SYMPOSIA 64-67

**S64: “Neurobiology of individual differences in human memory performance”**

Chairs: Valerio SANTANGELO (Perugia, Italy) & Martin DRESLER (Nijmegen, Netherlands)

**RISSANI ROOM**

Carlo SESTIERI (University of Chieti-Pescara, Italy): “A model of parietal involvement in episodic memory retrieval”

Valerio SANTANGELO (Perugia, Italy): “Functional neuroimaging and resting-state connectivity of highly superior autobiographical memory”

Boris Nikolai KONRAD (Nijmegen, The Netherlands): “The methods and characteristics of memory champions”

**Martin DRESLER**, (*Nijmegen, The Netherlands*): "Structural and functional neuroimaging of exceptional memory"

**S65 "The claustrum: development, evolution, structure, function and pathology"**

Chair: **José M. DELGADO-GARCÍA** (*Seville, Spain*)

**TINMEL ROOM**

**Luis PUELLES** (*Murcia, Spain*): "Development of the mice claustrum"

**Anna TEREM** (*Jerusalem, Israel*): "Claustrocortical circuits in attention and reinforcement"

**Pierre-Hervé LUPPI** (*Lyon, France*): "First demonstration that different neurons are activated during paradoxical (REM) sleep and waking using the TRAP mice method"

**José M. DELGADO-GARCÍA** (*Seville, Spain*): "Contribution of the claustrum to the classical eyeblink conditioning in rabbits"

**S66: "Non-motor symptoms in Parkinson's disease: neurobiological insights from animal models and patients"**

Chair: **Raffaella TONINI** (*Genoa, Italy*)

**TICHKA ROOM**

**Rosario MORATALLA** (*Madrid, Spain*): "Differential synaptic remodeling by dopamine in direct and indirect striatal projection neurons in aphakia mice, a genetic model of Parkinson's disease"

**Gilad SILBERBERG** (*Stockholm, Sweden*): "Dopamine regulates the synchrony between cholinergic interneurons by attenuating their recurrent inhibitory network"

**Gilberto FISONE** (*Stockholm, Sweden*): "A model of early Parkinson's disease displaying cognitive and affective deficit associated with impaired circadian rhythm"

**Véronique SGAMBATO** (*Bron, France*): "Role of the serotonergic system in non-motor symptoms of Parkinson's disease"

**Pierre-Olivier FERNAGUT** (*Poitiers, France*): "Unravelling mechanisms of non-motor side effects of dopamine replacement therapy in Parkinson's disease"

**S67: "Melatonin and the circadian system: Keys for health (Part 2: Pre-clinical and clinical approaches)"**

Chair: **Paul PEVET** (*France*) & **Nouria LAKHDAR-GHAZAL** (*Rabat, Morocco*)

**IMLIL ROOM**

**Gabriella GOBBI** (*Montreal, Canada*): "Drugs for insomnia beyond benzodiazepines"

**Carolina ESCOBAR** (*Mexico City, Mexico*): "Shift-work: is time of eating determining metabolic health? Evidence from animal models"

**Nouria LAKHDAR-GHAZAL** (*Rabat, Morocco*): "Circadian activity in 6-hydroxydopamine rat model of Parkinson's Disease: Effect of noradrenaline and serotonin depletions"

**Fouzia KADIRI** (*Casablanca, Morocco*): "Prevalence of sleep disorders among young people of Casablanca"

**Roberto PAGANELLI** (*Chieti, Italy*): "Biological clocks: relevance to immune and allergic diseases"

13:15-14:15

**Lunch**

14:20-16:20

**SYMPOSIA 68-71 AND OC3**

**S68: "Stressful life experiences don't have the same impact on all the individuals: focus on the clinical and biological signatures underlying vulnerability and resilience and its transmission"**

Chair: Annamaria CATTANEO (*London, United Kingdom*)

**IMLIL ROOM**

**Bruno ETAIN** (*Paris, France*): "Childhood trauma in bipolar disorders: clinical burden and potential moderators"

**Monica AAS** (*Oslo, Norway*): "Childhood trauma is associated with increased brain responses to emotionally negative as compared to positive faces in patients with psychotic disorders"

**Annamaria CATTANEO** (*London, United Kingdom*): "Role of miRNAs in the vulnerability or resilience to stress: novel target for preventive strategies"

**Tuomas H. KVIST** (*Helsinki, Finland*): "Polygenetic risk of major depressive disorder predicts childhood mental disorders"

**Jari LAHTI** (*Helsinki, Finland*): "Interplay of early life adversities and glucocorticoid responsive genes FKBP5 and FOXO1 on mental and metabolic health"

**S69: "Drug addiction: mechanisms underlying reward and aversion"**

Chair: Rami YAKA (*Jerusalem, Israel*)

**TINMEL ROOM**

**Miriam MELIS** (*Cagliari, Italy*): "Revealing endophenotypes of biased reward function"

**Yonathan KUPCHIK** (*Jerusalem, Israel*): "Abnormal dynorphin regulation of GABA transmission following cocaine withdrawal"

**Ana João RODRIGUES** (*Braga, Portugal*): "Nucleus accumbens circuits involved in reward and aversion"

**Rami YAKA** (*Jerusalem, Israel*): "Role of inhibitory GABAergic control of VTA dopamine neurons activity in reward and addiction"

**Giulia FOIS** (*Bordeaux, France*): "Locus coeruleus activation during novelty exposure gates cocaine-induced plasticity in dopamine"

**S70: “Therapeutic strategies in Parkinsonism: the importance of Neuroinflammation and Aging”**

Chair: Maria Trinidad HERRERO EZQUERRO (Murcia, Spain)

**TICHKA ROOM**

**Maria Egle DE STEFANO** (Rome, Italy): “Metalloproteinases in Parkinsonism and aging: friends or foes?”

**Maria-Trinidad HERRERO** (Murcia, Spain): “Synergy of aging and neuroinflammation in neurodegenerative diseases”

**Mercé PALLÀS LLIBERIA** (Barcelone, Spain): “Senescence-accelerated mice prone 8 (SAMP8), an experimental tool for drug discovery in neurodegenerative diseases”

14:20-16:20

**ORAL COMMUNICATIONS SESSION # 3 (17-28)**

**RISSANI ROOM**

Chairs: Vincent PREVOT (Lille, France) & Goran ŠIMIĆ (Zagreb, Croatia)

**OC-17 Rachel LEVY** (Beer Sheva, Israel): “The regulation of Na<sup>+</sup>-Ca<sup>2+</sup>-3 exchanger by cytosolic Phospholipase A<sub>2</sub> in amyotrophic lateral sclerosis”

**OC-18 Elzbieta LORENC-KOCI** (Krakow, Poland): “Alterations in the levels of sulfur-containing amino acids and global DNA methylation caused by glutathione deficit during early postnatal development as potential markers of schizophrenia-like behavior in adulthood”

**OC-19 Hanaa MALLOUL** (Marrakech, Morocco): “Adult inhalant abuse results in addictive-like behavior with impairments in hippocampal neurogenesis and hippocampal-dependent behaviors”

**OC-20 Serenella ANZILOTTI** (Naples, Italy): “Preconditioning induced by low doses of L-BMAA in SOD1-G93A mice modulates the ionic transporter NCX3 leading to a state refractory to ALS”

**OC-21 Maria Joan NUNES** (Lisboa, Portugal): “Identification of HDACs involved in the control of brain cholesterol metabolism”

**OC-22 Klaus G. PETRY** (Bordeaux, France): “Cognitive hippocampus vulnerability in chronic neuroinflammation”

**OC-23 Ines REYNOSO-MORENO** (Bern, Switzerland): “Selective endocannabinoid reuptake inhibitors to treat anxiety and stress-related disorders: from basic science to translational research”

**OC-24 Erika PINTER** (Pécs, Hungary): “TRPA1 receptor-mediates neurotoxic effects in murine models of dementia”

**OC-25 Hugo POTHION** (Mont-Saint-Aignan, France): “Influence of the Selenoprotein T in peripheral nerve repair cell therapy”

**OC-26 Hicham EL ASSLI** (Béni Mellal, Morocco): “Status of addictions to psychoactive substances among students in the province of Béni Mellal-Morocco”

- OC-27 Dora REGLODI** (*Heidelberg, Germany*): “Accelerated systemic amyloidosis in aging mice lacking the neuropeptide pituitary adenylate cyclase activating polypeptide (PACAP)”
- OC-28 Manuela RADIĆ** (*Palermo, Italy*): “Ethosuximide action on temporal behavioural features of Wistar, NEC and GAERS rats in the hole-board test”

**16:20-16:40 COFFEE BREAK**

**16:40-18:00 ORAL COMMUNICATIONS SESSION # 4 (29-36) RISSANI ROOM**

**Chairs:** Lee E. EIDEN (*Bethesda, USA*) & Nora ABROUS (*Bordeaux, France*)

- OC-29 Ayman SALMAN** (*Jerusalem, Palestine*): “Rule vs. contextual generalization: insights into hippocampal-entorhinal involvement in posttraumatic stress disorder (PTSD)”
- OC-30 Goran ŠIMIĆ** (*Zagreb, Croatia*): “ALZENTIA™ : a non-invasive hidden-goal test for spatial orientation impairment detection in patients with possible neurocognitive disorder”
- OC-31 Rossana SIRABELLA** (*Naples, Italy*): “NCX1 and NCX3 as potential factors contributing to neurodegeneration and neuroinflammation in the A53T transgenic mouse model of Parkinson’s disease”
- OC-32 Mouna EL MEHDI** (*Mont-Saint-Aignan, France*): “Lack of 26RFA alters the central anti-hyperglycemic action of insulin in mice”
- OC-33 Valeria VALSECCHI** (*Naples, Italy*): “MiR-206 administration reduced MNs death in the brain stem of a genetic Smn-/- mouse model of spinal muscular atrophy”
- OC-34 Ruud VAN DER WEEL** (*Oslo, Norway*): “Only three fingers write, but the whole brain works: a high-density EEG study showing advantages of drawing over typing for learning”
- OC-35 Neide VIEIRA** (*Braga, Portugal*): “Unveiling sorting nexins role in the nervous system”
- OC-36 Olfa MASMOUDI-KOUKI** (*Tunis, Tunisia*): “Neuroprotection with the gliopeptide octadecaneuropeptide, ODN”

**18:10-19:00 TRAVEL GRANTS AND AWARDS RISSANI ROOM**

**18:10-19:00 CONCLUSIONS RISSANI ROOM**

## REGISTRATION AND REGISTRATION FEES

Registration fee for full conference includes:

- Participation in all scientific sessions
- Printed program and abstract book of MNS 2019
- Welcome reception party
- Lunches and Coffee breaks
- Secretariat assistance

Full Conference	Before April, 15	After April, 15	On site
Ordinary / Regular			
Member	€ 420	€ 520	€ 700
Non member	€ 520	€ 620	€ 800
Post-doc *			
Member	€ 370	€ 470	€ 650
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Member	€ 280	€ 380	€ 500
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Guest**		€ 150	€ 200
3-days fee			
Ordinary / Regular			
Member	€ 340	€ 440	€ 600
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Member	€ 300	€ 400	€ 550
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PhD student / Graduate *			
Member	€ 200	€ 300	€ 400
Non member	€ 300	€ 400	€ 500
2-days fee			
Ordinary / Regular			
Member	€ 290	€ 390	€ 500
Non member	€ 390	€ 490	€ 600
Post-doc *			
Member	€ 250	€ 350	€ 450
Non member	€ 350	€ 450	€ 550
PhD Student / Graduate *			
Member	€ 150	€ 250	€ 300
Non member	€ 250	€ 350	€ 400

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## COMMENTS OF ATTENDANTS ABOUT THE MEETING

Dear Youssef,

Again, congratulations on 7<sup>th</sup> MNS. I reported to our group on the highlights of the conference and was again struck by how impactful it actually was. A great opportunity to meet some of the luminaries of the field that I'd not previously met (including Hagai Bergman, our tablemate at the Gala Dinner. Also some great memories of Marrakech, and some magnificent new carpets for our home—I hope you and Loubna will have a chance to see them in person before too long!

Best regards, and also to Loubna, Mona, and the rest of the family!

Lee

**Lee E. Eiden**

NIMH, NIH

Bethesda, USA

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Dear Youssef, Dear All,

I would like to thank you Youssef and all your wonderful team. You organized an excellent and very exciting meeting. The meeting organization was very professional with good choice of scientific sessions and speakers in a very friendly and warm atmosphere. Regarding the intendance in the hotels, everything was excellent and of high quality from the breakfast to the meals and coffee break. I should say that as an Israeli person, I was particularly touched by the warm hosting of all Moroccan people both at the meeting and in Marrakech in general.

In conclusion, I greatly enjoyed the meeting in Marrakech thanks to your professional and scientific touch as well as to the warm friendship and atmosphere that you spread all along the meeting.

Thank you again Youssef and all your team for this wonderful MNS meeting in Marrakech.

Choukrane.

**Prof. Bernard Attali**

Tel Aviv University, Israel

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Cher Youssef,

Youssef, par ce mail, je voudrais te remercier pour m'avoir invité comme plenary lecturer, j'ai été honoré par ce choix et j'espère avoir été à la hauteur.

Je voulais également te remercier pour l'organisation parfaite du congrès, tu as été exemplaire, d'une attitude irréprochable ... on voit vraiment l'attitude du très grand chercheur .. mon cher je voulais juste témoigner de mon admiration de tout ça et très bonne continuation

Mes sincères salutations

**English translation:**

Youssef, by this mail, I would like to thank you for having invited me as plenary lecturer, I was honored by this choice and I hope I have been up to it.

I also wanted to thank you for the perfect organization of the congress, you were exemplary, of an irreproachable attitude ... we really see the attitude of the very great researcher... my dear I just wanted to testify of my admiration of all that and very good continuation

Sincerely,

Khalid

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**Pr. Khalid El Allali**, DMV, DESS, PhD, HDR.  
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Cher Youssef,

Je voudrais simplement te remercier pour l'organisation du congrès à Marrakech. Le congrès était excellent à tous points de vue. C'est ma troisième participation à la MNS et cette année le niveau scientifique y était encore meilleur. J'ai vraiment apprécié l'efficacité, la souplesse de l'organisation et l'atmosphère générale du congrès.

**English translation:**

I would simply like to thank you for organizing the congress in Marrakech. The conference was excellent in every way. This is my third participation in the MNS and this year the scientific level was even better. I really appreciated the efficiency, the flexibility of the organization and the general atmosphere of the congress.

**Professeur Jacques Noël**

Conseiller Scientifique au Hcéres en Charge du Pilotage de l'évaluation des unités en neurosciences (CSP) / Scientific Officer HCERES  
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06560 Valbonne

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Dear Youssef,

I could not have a chance to say arrivederci, and I apologize about that. I have to get my flight in few hours.

I wish to thank you for your availability with our work and congratulate for the excellent outcome of the meeting. It was a memorable one.

I truly hope we will be given a chance to collaborate in the near future and please feel free to get in touch with me should you need any contribution from my little experience.

Warmest Regards

Renato

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**Renato Bernardini MD**

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**The 7<sup>th</sup> Mediterranean Neuroscience Conference**  
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