

Association for the Study of Neurons and Diseases
9th International Conference for Neurons and Brain Disease
PROGRAM

BARCELONA:

Hospital Val d'Hebron

Passeig de la Vall d'Hebron

119-129, 08035 Barcelona.

Thursday July 10, 2014 - Arrival

Please arrive on the evening of Thursday July 10 at the latest.

Friday JULY 11, 2014 – Frontiers in Neuroscience (AFTERNOON ONLY)

Chair: Joan Comella

4:00-4:30 pm **Mei Zhen:** *The development of the C. elegans motor circuit*

4:30-5:00 pm **Cristina Pujades:** *From differentiation to somatotopy: establishment of cranial sensory neuron afferent central connections*

5:00-5:30 pm **Joan Montaner:** *Neuroprotection in brain hypoxia: a history of failure*

5:30-6:00 pm **Alberto Lleó:** *Pathways in autosomal dominant and sporadic Alzheimer's disease*

6:00-6:30 pm **Graham Collingridge:** *An illustrated guide to the mind*

July 12, 2014 – Free Day

July 13, 2014 - Free Day

Please arrive in Madrid this day/evening as meetings will start the following morning.

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MADRID:

Centro Alzheimer-Fundacion Reina Sofia (www.fundacioncien.es & www.ciberned.es)

C/ Valderrebollo, 5 28031-Madrid.

****All talks are 20 minutes which should include a 15 minute presentation and 5 minutes of question and answer. Please prepare your talks accordingly****

Monday July 14, 2014 – International Conference for Neurons and Brain Disease

9:00-9:30AM COFFEE AND REFRESHMENTS

Section 1 - Glia: (9:30-10:30) Chair: Bong-Kiun Kaang

9:30-9:50 **Long-Jun Wu:** *Microglia-neuron communication in epilepsy*

9:50-10:10 **Ren Yi:** *Managing inflammation after spinal cord injury through manipulation of macrophage function*

10:10-10:30 **Wei-Yang Lu:** *GABA regulation of microglial activity*

10:30-10:50 – COFFEE BREAK

Section 2 - Synaptic transmission and signaling: (10:50-12:10) Chair: Inokuchi Kaoru

10:50-11:10 **Luyang Wang:** *Heterogenous Ca²⁺ signaling compartments at a central nerve terminal*

11:10-11:30 **Yong Rao:** *Vision, aggression and genes*

11:30-11:50 **Makoto Tominaga:** *A pain-enhancing mechanism through interaction between TRP channels and anoctamines*

11:50-12:10 **Kato Fusao:** *How do the synapses obtain energy sources to produce sufficient ATP? – a primary role of monocarboxylate transporters*

12:10-1:40 – LUNCH BREAK

Section 3 - Synaptic plasticity (1:40-3:00) Chair: Rao Yong

1:40-2:00 **Bito Haruhiko:** *Activity-dependent gene expression: mechanism, function and application*

2:00-2:20 **Zhengping Jia:** *PAK signaling in spine plasticity and social memory*

2:20-2:40 **Shao-Jun Tang:** *Activity regulated Wnt signaling at synapses*

2:40-3:00 **Joanne Nash:** *Changes in synaptic plasticity in mouse models of Parkinson's disease and L-DOPA-induced dyskinesia*

3:00-3:20 – COFFEE BREAK

Section 4 - New approaches and Brain Disease (3:20-5:00) Chair: YuTian Wang

3:20-3:40 **Fang Liu:** *Development of peptide for the treatment of multiple sclerosis*

3:40-4:00 **Jose J Lucas:** *Huntington's disease is a taupathy*

4:00-4:20 **Stephen Ferguson:** *GPCR signaling in neurological diseases*

4:20-4:40 **Ignacio Torres-Aleman:** *IGF-I as a biomarker in Alzheimers Disease*

4:40-5:00 **Yutian Wang:** *Research and therapeutic potentials of peptide mediated protein knockdown*

5:00-6:30PM POSTER PRESENTATION & WELCOME WINE AND CHEESE RECEPTION

8:00PM AND COUNCIL MEMBER & BUSINESS DINNER

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Tuesday JULY 15, 2014

9:00- 9:30 COFFEE AND REFRESHMENTS

Section 5: *Emotion and disorder* (9:30-10:50) Chair: Graham Collingridge

9:30-9:50 **Vadim Bolshakov:** *Synaptic encoding of fear extinction*

9:50-10:10 **Tsuyoshi Miyakawa:** *Bidirectional change of maturation status of cells in the brain: relevant to neuropsychiatric disorders*

10:10-10:30 **Satoshi Kida:** *Regulation of memory retrieval by forebrain circadian clock*

10:30-10:50 **Min Zhuo:** *Neurological roles of ACC in pain and pleasure*

10:50-11:10 COFFEE BREAK

Section 6: *Pain* (11:20-12:40) Chair: Long-Jun Wu

11:10-11:30 **Michael Salter:** *Distinct spinal mechanisms in males vs females*

11:30-11:50 **Ma Qiufu:** *Genetic dissection of spinal circuits processing mechanical pain*

11:50-12:10 **Bai-chuang Shyu:** *Involvement of P2X7 and BDNF in central post-stroke pain*

12:10-12:30 **Xinzhong Dong:** *Pirt2 modules TRPA1 activity in TRPA1/TRPV1 complex*

12:30-2:00 – LUNCH BREAK

Section 7: *Neurogenesis and neurodegeneration* (2:00-3:20) Chair: Jose Naranjo

2:00-2:20 **Teresa Iglesias:** *Kindins220/ARMS function in neuronal survival and neurodegeneration*

2:20-2:40 **Sean Cregan:** *The role of ATF4 in neuronal cell death*

2:40-3:00 **Jin-A Lee:** *Autophagy in frontotemporal dementia/amyotrophic lateral sclerosis*

3:00-3:20 **Felix Hernandez:** *Dual effects of increased glycogen synthase kinase-3B activity on adult neurogenesis*

3:20-4:00 – COFFEE BREAK

Section 8: *Brain and Disease* (4:00-5:20) Chair: Stephen Ferguson

4:00-4:20 **Junmin Peng:** *A Proteomics approach to understanding Alzheimers Disease*

4:20-4:40 **Rosario Mortalla:** *Mechanism of Methamphetamine-degeneration in dopamine neuron*

4:40-5:00 **Alberto Rabano:** *Involvement of the medial temporal lobe in neurodegenerative pathologies: staging as a clue to disease-associated protein spreading*

5:00-5:20 **Javier Fernandez:** *Cannabinoids are disease-modifying agents in neurodegenerative disorders*

5:20-5:40 **Chen Tao:** *Facilitated corticospinal projecting neurons after peripheral nerve injury*

9:00PM FLAMENCO SHOW (for those who have pre-registered)

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Wednesday JULY 16, 2014

9:00-9:30 COFFEE AND REFRESHMENTS

Section 9: Memory (9:30-11:10) Chair: Satoshi Kida

9:30-9:50 **Jin-Hee Han:** *Manipulation of memory by activating CREB ensemble*

9:50-10:10 **Takashi Kitamura:** *New excitatory inputs into the hippocampus control temporal association memory*
10:10-10:30 **Kaoru Inokuchi:** *Optical stimulation of distinct odslot cell assemblies generates an artificially-associated-memory*

10:30-10:50 **Bong-Kiun Kaang:** *LLP, a small, but critical transcription factor involved in synaptic plasticity*

10:50-11:10 **Bryan Strange:** *Human brain mechanisms for remembering salient events*

11:10-11:30 COFFEE BREAK

11:30-12:15 TIM BLISS: CONCLUDING REMARKS

+ Poster Awards + Investigator Awards + Molecular Pain/Brain Awards

12:15-1:00PM AND ANNUAL MEETING (Kaang, Kida and Zhuo)

Lunch groups (suggestions)

8:00PM

****DINNER BANQUET + Karaoke Party! (PRE-REGISTRATION IS REQUIRED)****