



Monday, January 20

AUDITORIUM NAVAL MUSEUM

14:00 –14:20 Opening Remarks

Ramón Latorre, Chair Scientific Committee

Symposium I – Molecular Workings of Nanomachines

14:20 Chair: **Alan Neely**

14:30 **Helmut Grubmüller** “May the force be with you: Biological nanomachines at work”

15:00 **F. Danilo González** “Flux of ion in transmembrane nanomachines: K⁺ channels”

15:30 **Benjamin Kaupp** “Supramolecular organization of rhodopsin in photoreceptor membranes”

16:00 **Carlos González** “Hv channels: a voltage sensor or a permeation pathway to protons?”

Plenary Lecture

16:30-17:30. **Jahn Reinhard** “Exocytosis and recycling of synaptic vesicles”

17:40-19:30. **Welcome cocktail at the Naval Museum**

Tuesday, January 21

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Symposium II – Sensory Systems

9:30 Chair: **Oliver Schmachtenberg**

9:40 **Kathleen Whitlock** “Olfactory development: Making Scents in a changing world”

- 10:05 **Peter Mombaerts** “Coding olfaction”
- 10:30 **Patricio Orio** “Different ion channels involved in cold thermosensation: how to put them together?”
- 10:55 **Andreas Neef** “Population encoding from the perspective of individual neurons”
- 11:20 -11:40 **Coffee Break**

Symposium III – Neuronal Dynamics and Neural Network

- 11:40 Chair: **Patricio Orio**
- 11:50 **Moritz Helmstaedter** “Connectomics: the dense reconstruction of neuronal circuits”
- 12:15 **Fred Wolf** “Evolution and robustness of large-scale neuronal circuits“
- 12:40 **John Ewer** ”Genetic analysis of a peptidergic neuronal network in Drosophila”
- 13:05 **Tomás Pérez-Acle** “The Structure and Dynamics of Networks”

13:30-15:00 **Lunch at the Naval Museum**

Symposium IV – Neural Coding and Behavior

- 15:00 Chair: **John Ewer**
- 15:10 **Robert Gutig** “Neural processing of continuous sensory streams”
- 15:35 **Adrián Palacios** “A natural view on retinal neural coding”
- 16:00 **Andrés Chávez** “Activity-dependent modulation of synaptic strength: New Mechanism and Synaptic rules”
- 16:25- 16:50 **David Fitzpatrick** ” Building cortical representations with experience: Insights from Visual Cortex”