Inaugural Cerebellar Symposium: Mechanisms of Cerebellar Function
July 11, 2008
Geneva, Switzerland

Venue:

Ramada Park Hotel Geneve
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General Description:

The Symposium will be the inaugural event of the newly-formed Society for Research on the Cerebellum. The Society will be open to scientists throughout the world active on different aspects of cerebellar research, from basic to clinical science. The reason for organizing the symposium as a satellite event of the FENS Forum, Geneva 2008, is to attract the numerous scientists that will attend the Forum and to promote the mission and the activities of the Society within the wider scientific community. The specific scientific goals of the Symposium are to highlight recent advances in our understanding of cerebellar function and to promote interaction among leading neuroscientists using a wide variety of approaches and methodologies to understand cerebellar function in health and disease. The scientific program includes sessions on the timeliest topics in cerebellar research, including developmental dynamics, the function of cerebellar circuitry from neurons to networks, and the role of the cerebellum in learning, timing, prediction and cognitive processes.

Scientific program:

I. Cerebellar development, death and regeneration
- Constantino Sotelo – "Viewing the cerebellum from the eyes of Ramon y Cajal"
- Ferdinando Rossi – "The genesis of cerebellar inhibitory interneurons"
- Nori Koibuchi – "The role of thyroid hormone on cerebellar development"
- Isabelle Dusart – "Purkinje cell death"

II. Cerebellar circuitry: Processing and function
- Michael Hausser – "Synaptic integration in cerebellar neurons in vivo"
- Carl-Fredrik Ekerot – "Synaptic integration in cerebellar granule cells"
- Dieter Jaeger – "The role of Sk current in the synaptic response function of DCN neurons"
- John I. Simpson – "The light and dark sides of the floccular climbing fiber signals"

III. Mechanisms of cerebellar plasticity and learning
- Chris de Zeeuw – "The superimposed role of cerebellar interneurons in motor learning"
- Siquiong June Liu – "Long-term synaptic plasticity in cerebellar stellate cells"
- Germund Hesslow – "The physiology of classical conditioning: The role of the inferior olive and feedback control of learning"
- Paul Dean – "Adaptive filter models of the cerebellum: Computational analysis"

IV. Cerebellar function: Timing, prediction and/or coordination?
- R. Chris Miall – "The cerebellum and timing, state estimation and coordination"
- Yosef Yarom – "Temporal patterns in the olivo-cerebellar system"
- Amy Bastian – "Cerebellar predictions for learning human action"
- Tim Ebner – "Purkinje cell firing: Inverse or forward internal model?"

V. Anatomical and disease perspectives on cerebellar function

Mitchell Glickstein – "Anatomical connections and the functions of the cerebellum"
CarolineTilikete /Denis Pélisson –"Role of the cerebellum in sensori-motor adaptation: new findings"
Dagmar Timmann – "Lesion-symptom mapping of the human cerebellum"
Maja Steinlin – "Cerebellar disorders in childhood: Cognitive problems"
Marco Molinari – "Cerebellum and detection of sequences, from perception to cognition"

Website: www.socrecer.org

Organizing Commitee:

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