How the Brain Moves the Eyes and the Head: Neural Mechanisms of Oculomotor and Vestibular Function

Conference Overview

Oct. 5-8 2008, Medford, OR

	OCTOBER 5	OCTOBER 6	OCTOBER 7
7:00		*Continental Breakfast* (7:00-8:30)	*Continental Breakfast* (7:00-8:30)
8:00			
9:00		**Saccadic Eye Movements** (9:00-12:00)	**Motor Units** (9:00-10:40)
10:00			
11:00			**Cerebellar Control of Gaze I** (11:10-12:00)
12:00		*Lunch on Own* (12:00-2:00)	*Lunch on Own* (12:00-1:00)
1:00			**Cerebellar Control of Gaze II** (1:20-3:00)
2:00		**Poster Session** (2:00-4:00)	
3:00	**Vestibular Control of Eye Movement** (3:00-5:30)		
4:00		**Smooth Pursuit Eye Movements** (4:00-7:00)	**Coordination of Head and Eye Movements** (3:30-5:10)
5:00			
6:00	**Opening Reception** (6:00-9:00)		
7:00			**Conference Banquet** (7:00)
8:00			
9:00			

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DAY SCHEDULE

Oct. 5-8 2008, Medford, OR

	OCTOBER 5
7:00	
8:00	
9:00	
10:00	
11:00	
12:00	
1:00	
2:00	
3:00	**Vestibular Control of Eye Movement** (3:00-5:30)
4:00	
5:00	
6:00	**Opening Reception** (6:00-9:00)
7:00	
8:00	
9:00	

Events:

Vestibular Control of Eye Movement (Organizer: Mike King)

3:00-5:30 PM – Smullin Health Education Center

3:00	*B. Cohen*	Then and Now ... 40 Years of Eyes and Ears with Albert.
3:25	*K. Cullen*	Central Vestibular Processing: Neural Coding and Multimodal Interactions.
3:50	*W. Michael King*	Mysteries of the Linear VOR.
4:15	*D. Dickman*	Recovery of Eye, Head and Gaze Control During Regeneration.
4:40	*J. Carey*	Intratympanic Gentamicin and Clues to the Role of Type I Hair Cells in the Vestibulo-ocular Reflex.
5:05	*D. Angelaki*	Processing of Vestibular Signals by the Cerebellar Nodulus and Ventral Uvula.

Opening Reception

6:00-9:00 PM – Ashland Armory

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	OCTOBER 6
7:00	*Continental Breakfast* (7:00-8:30)
8:00	
9:00	**Saccadic Eye Movements** (9:00-12:00)
10:00	
11:00	
12:00	*Lunch on Own* (12:00-2:00)
1:00	
2:00	**Poster Session** (2:00-4:00)
3:00	
4:00	**Smooth Pursuit Eye Movements** (4:00-7:00)
5:00	
6:00	
7:00	
8:00	
9:00	

Events:

Continental Breakfast
7:00-8:30 AM – Ashland Springs Hotel

Saccadic Eye Movements (Organizer: Chris Kaneko)
9:00-12:00 PM – Smullin Health Education Center

9:00	*C. Kaneko*	Forty Years of Saccade Studies
9:30	*Shinoda*	Neural Circuit for Generation of Saccades in the Brainstem
10:00	*Iwamoto*	Driving Signals for Saccade Adaptation from the Superior Colliculus
10:30		Coffee Break
11:00	*Keller*	The Balance of Activity in FEF Accounts for Increases in Saccadic Reaction Time as a Function of the Number of Response Choices.
11:30	*R. Wurtz*	Modulation of Visual Processing by Saccades

Poster Session
2:00-4:00 PM – Smullin Health Education Center

Smooth Pursuit Eye Movements (Organizer: Steve Lisberger)

4:00	*S. Lisberger*	The flocculus: 1971-2008
4:30	*Miles*	The Visual Processing Underlying the Initial Ocular Following Response
5:00	*Shadlen*	P'ing and Time: Aging, Urgency and Probability.
5:30		Coffee Break
6:00	*Fukushima*	Visual Motion-Memory and Predictive Pursuit: Comparison of SEF and FEF.
6:30	*Mustari*	Signal Identification in Parallel Cortical-Pontine Pathways for Smooth Pursuit.

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DAY SCHEDULE

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	OCTOBER 7	Events:
7:00	*Continental Breakfast* (7:00-8:30)	**Motor Units** (Organizer: Mark Binder) *9:00-10:40 AM – Smullin Health Education Center* 9:00 *M. Binder* Introduction 9:10 *Jean Buttner-Ennever* Regional and Functional Segregation of Extraocular Motoneurons 9:35 *B. Torres* Contribution of the Intrinsic Membrane Properties and Cholinergic Synaptic Inputs to Firing Properties in Rat Oculomotor Nucleus Motoneurons 10:00 *P. Dean* Modeling Recruitment of Ocular Motoneurons: Implications for Eye-Movement Control
8:00		
9:00	**Motor Units** (9:00-10:40)	
10:00	*Coffee Break*	
11:00	**Cerebellar Control of Gaze I** (11:10-12:00)	**Cerebellar Control of Gaze** (Organizer: Ulrich Büttner) *11:10-12:00 PM (Part I) & 1:20-3:00 PM (Part II) – Smullin Health Education Center* 11:10 *N. Barmack* Cerebellar Climbing and Mossy Fibers: Distinct Contributions to Regulation of Purkinje Cell Simple Spikes. 11:35 *D. Zee* Saccade Adaptation: Implications for Cerebellar Function. 1:20 *R. Soetedjo* Complex Spikes: Rarely Appeared, but Instructive. 1:45 *Y. Kojima* Changes in Simple Spike P-cell Activity in the Oculomotor Vermis During Saccade Adaptation. 2:10 *R. Robinson* Cerebellar Saccade Slowing Depends on a Signal that Crosses the Vermis Midline. 2:35 *U. Büttner* Different Functions of Saccade Related Fastigial Nucleus Neurons.
12:00	*Lunch on Own* (12:00-1:00)	
1:00	**Cerebellar Control of Gaze II** (1:20-3:00)	
2:00		
3:00		
4:00	**Coordination of Head and Eye Movements** (3:30-5:10)	**Coordination of Head and Eye Movements** (Organizer: Jim Phillips) *3:30-5:10 PM – Smullin Health Education Center* 3:30 *J. Phillips* Coordination of Eye and Head Movement Following Loss of Modulated Vestibular Input From the Semicircular Canals. 3:50 *L. Goffart* The Caudal Fastigial Nucleus and the Control of Gaze Orientation : Lessons from Perturbation Experiments in the Cat and Monkey 4:10 *E.G. Freedman* Long-Lead Burst Neuron Activity during Coordinated Eye-Head Movements. 4:30 *S.D. Newlands* Coordination of Vestibular Afferent and Corollary Discharge (Eye Position) Signals During Translation. 4:50 *G.D. Paige* Integration and Adaptation Across Oculomotor and Sensory Spatial Representations.
5:00		
6:00		
7:00	**Conference Banquet** At the Ashland Armory (7:00)	
8:00		
9:00		