

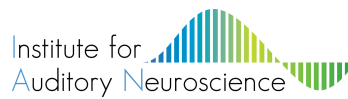
Restoration of Sensory and Motor Function 2016



Day 1, Thursday, May 26th, 2016 / Sensory Restoration

08:30 – 09:00	Registration
09:00 – 09:10	Opening remarks: Vice President, Prof. Diederichsen , University Göttingen, Tobias Moser , Physics2Medicine, Wolfgang Brück , University Medical Center Göttingen
09:15 – 11:15	Session 1: Restoration of Hearing (Chair: Tobias Moser, Göttingen)
09:15 – 10:00	Ingeborg Hochmair “Hearing Restoration via Cochlear Implants: State of the Art, Current Challenges and Limitations”
10:00 – 10:30	Marcus Jeschke “Developing cochlear optogenetics for auditory research and future prosthetics”
10:30 – 11:15	Hinrich Staecker “Initial experiences in gene delivery to the human inner ear”
11:15 – 11:45	<i>Posters and Coffee</i>
11:45 – 13:15	Session 2: Restoration of Vision (Chair: Tim Gollisch, Göttingen)
11:45 – 12:30	Ernst Bamberg “Optogenetics: Basics, Applications, Chances”
12:30 – 13:15	Sonja Kleinlogel , “Light in Sight: Optogenetic gene therapy to recover vision”
13:15 – 14:15	<i>Lunch break</i>
14:15 – 14:45	<i>Posters and Coffee</i>
14:45 – 16:45	Session 3: Maintenance and Restoration of Sensory Perception (Chair: Sebastian Kügler, Göttingen)
14:45 – 15:30	José Sahel “Extending cone photoreceptors functional life in retinal degenerations, from neuroprotection to restoration”
15:30 – 16:00	Christian Wrobel “Cochlear optogenetics in postnatally AAV transduced Mongolian gerbils”
16:00 – 16:45	Volker Busskamp “miRNAs 182 and 183 Are Necessary to Maintain Adult Cone Photoreceptor Outer Segments and Visual Function”
16:45 – 17:15	<i>Posters and Coffee</i>
17:15 – 19:15	Session 4: Neural stimulation in Sensory Protheses (Chair: Manuela Schmidt, Göttingen)
17:15 – 18:00	Malte Tiburcy “Individualized Heart Muscle Repair”
18:00 – 18:30	Daniel Keppeler “Characterizing cochlear morphology and preliminary insertion studies with multichannel optical CIs”
18:30 – 19:15	Patrick Ruther “MEMS-based technologies for optogenetic applications”
	Speakers Dinner

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Day 2, Friday, May 27th, 2016 / Motor Restoration

09:00 – 09:15	Opening remarks: Dario Farina , University Medical Center Göttingen
09:15 – 10:45	<i>Session 5: Brain Computer Interfaces (Chair: Dario Farina, Göttingen)</i>
09:15 – 10:00	Hansjörg Scherberger , “Cortical interfaces for grasping”
10:00 – 10:45	Klaus-Robert Müller “Machine Learning and Brain Computer Interfacing”
10:45 – 11:15	<i>Posters and Coffee</i>
11:15 – 13:15	<i>Session 6: Limb Prosthetics (Chair: David Liebetanz, Göttingen)</i>
11:15 – 12:00	Oskar Aszmann , “Bionic Reconstruction of the Upper Extremity”
12:00 – 12:45	Max Ortiz Catalan “Prosthetic control and sensory feedback using implanted neuromuscular interfaces and osseointegration”
12:45 – 13:15	Lucia Seminara “Sensitive Electronic Skin for Prosthetics”
13:15 – 14:15	<i>Lunch break</i>
14:15 – 14:45	<i>Posters and Coffee</i>
14:45 – 16:45	<i>Session 7: Regeneration and Restoration (Chair: Walter Paulus, Göttingen)</i>
14:45 – 15:30	Dejan Popovic , “Motor neuroprosthesis: a tool for neurorehabilitation”
15:30 – 16:00	Dirk Czesnik “Increased HCN channel driven inward rectification in benign cramp fasciculation syndrome”
16:00 – 16:45	Stanisa Raspovic “Speaking the language of nerves by intraneural stimulation restores force, shape, compliance and roughness recognition to amputees”
16:45 – 17:15	<i>Posters and Coffee</i>
17:15 – 17:40	
17:15 – 17:40	<i>Closing remarks: Tobias Moser</i>
19:15 – 21:30	<i>Public Forum / Pauliner Kirche (Chair: Meike Schweisfurth)</i>