

Agenda

Date	Start	End	Event
Sept 20	09:30	14:00	Start registration
	10:00	12:00	Master Classes - Pathophysiology of SD; Jens Dreier, Charité Universitätsmedizin Berlin - SD aspects on ECoG recording in the ICU; Jed Hartings University of Cincinnati
	13:50	14:00	Opening
	14:00	15:00	Keynote speaker 1: Serge Charpak, Institut de la Vision Paris
	15:00	16:00	Session 1- Mechanism underlying SD occurrence - Heme degradation products in a mouse model of subarachnoid hemorrhage: from vasospasm to cortical spreading depolarizations – Alexander Joerk - Preliminary evidence for the release of a spreading depolarization activator (SDa) evoked by metabolic stress – David Andrew - Genotype specific spontaneous cortical spreading depolarization patterns in two potassium channel deficient epilepsy mice – Isamu Aiba/Jeffrey L. Noebels
	16:00	16:40	break
	16:40	18:00	Session 2 - SD in relation to cell death - Spreading depolarization in the wake of stroke studied in a pharmacogenetic mouse model of reversible neuronal suppression – Clemens Reiffurth - Dimethyltryptamine attenuates spreading depolarization possibly via sigma-1 receptor antagonism in the ischemic rat brain – Eszter Farkas - Cortical spreading depolarization and neuro-inflammation – Ali Gorji - Spreading depolarization arises in hyperexcitable glioma microenvironment - Jeffrey L. Noebels
	20:00	23:00	iCSD gala Dinner
Sept 21	9:00	10:00	Keynote speaker 2: Christine R. Rose, Heinrich Heine University of Düsseldorf “Cellular Sodium Loading in Metabolically Compromised Cortex”
	10:00	10:40	break
	10:40	11:40	Session 3 – SD and neuronal network dynamics - GABAergic neurons and Nav1.1 channel hyperactivity: a novel neocortex-specific mechanism of Cortical Spreading Depression – Massimo Mantegazza - Mathematical model of Nav1.1 mutations capturing both migraine and epilepsy scenarios – Louisiane Lemaire - Neuronal network dynamics during SD across cortical layers– Roustem Khazipov
	11:40	12:20	Poster session 1
	12:20	13:30	Lunch Break
	13:30	14:30	Keynote speaker 3: Mickael Tanter, Institut Langevin ParisTech, France
	14:30	16:00	Session 4 - Innovative neuromonitoring of SD - Automated identification of spreading depolarizations from COSBID-recommendation based analysis - a machine learning approach – Sebastian Major - Recording spreading depolarisations using arrays of graphene transistors in awake rodents – Robert Wykes - Non-Invasive Detection of Cortical Spreading Depolarization: Further Results – Stephen Jones - Simultaneous Dynamic Diffusion and Diffusion Tensor Imaging for in vivo Monitoring of Cortical Spreading Depolarizations – Mihika Gangolli
	16:00	16:30	Break

	16:30	17:30	<p>Session 5 – SD consequences after severe traumatic brain injury</p> <ul style="list-style-type: none"> - Long-term evaluation of neuronal calcium-related activities in the somatosensory cortex in freely-behaving mice after a juvenile mild traumatic brain injury – Christophe Dubois - Association of hypocapnia with isoelectric spreading depolarizations in patients with severe traumatic brain injury – Jed Hartings - Cerebral blood flow responses following repeated spreading depolarizations in a mouse model of mild traumatic brain injuries – Russel Morton
	17:30	18:00	Open Discussion.
			Free evening to discover Lyon
Sept 22	9:00	10:00	Keynote speaker 4: Oscar Herreras, Cajal Institute Madrid
	10:00	10:20	Coffee Break
	10:20	11:20	<p>Session 6 – Cytotoxic edema and volume regulation</p> <ul style="list-style-type: none"> - Plasticity of perisynaptic astroglia during ischemia-induced spreading depolarization – Sergei Kirov - Spreading depolarization-uncoupled hypoxic neuronal injury is driven by non-excitatory amino acids-induced astroglial swelling – Iris Alvarez - Astrocyte swelling contributes to neuronal hyperexcitability and oncotic cell death in rat brain slices – Rita Frank
	11:20	12:00	Poster session 2
	12:00	12:30	Sponsor’s booth presentation session.
	12:30	13:30	Lunch Break
	13:30	14:50	<p>Session 7 - SD in the neuro-ICU</p> <ul style="list-style-type: none"> - Software to detect spreading depolarisations in the intensive care unit – Anthony Strong - Are EEG scalp measures of delayed cerebral ischemia following subarachnoid hemorrhage associated with Spreading Depolarizations? – Shravan Sivakumar - Spreading depolarisations in ischaemia after subarachnoid haemorrhage, a diagnostic phase III study – Jens Dreier
	14:50	15:30	Poster session 3
	15:30	16:00	Break
	16:00	16:40	<p>Session 8 – Macro and micro rCBF changes during SDs</p> <ul style="list-style-type: none"> - Role of spreading depolarizations and seizures for lesion progression after photothrombosis: protective traits of ketamine – Karl Schoknecht - The role of spreading depolarization in the insufficiency of reperfusion after cerebrovascular occlusion – Akos Menyhart
16:40	17:10	Young investigators oral & poster presentation awards	
17:40		Closing	