



JOINT MEETING
OF THE
SWISS SOCIETY FOR NEUROSCIENCE
AND THE
CLINICAL NEUROSCIENCE BERN

Bern, January 24 – 25, 2014

Von Roll
University of Bern
Fabrikstrasse 6



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Program CNB

- 8:30 – 9:20 REGISTRATION AND POSTER SETUP / COFFEE
- 9:20 – 9:30 WELCOME ADDRESSES
Hall 001 **Martin Täuber** Rector University of Bern
Claudio Bassetti CNB President
Werner Strik Director of the University Hospital of Psychiatry Bern
- 9:30 – 10:20 KEY NOTE LECTURE (Chair: Werner Strik)
Hall 001 **Deep Brain Stimulation in psychiatric disorders**
Martjn Figee University of Amsterdam
- 10:20 – 10:40 COFFEE BREAK
- 10:40 – 12:10 SYMPOSIUM I: **MEMORY AND COGNITION** (supported by the CCLM)
Hall 001 Coordinators: Walter Perrig, Katharina Henke
Decoding sequence learning from single-trial intracranial EEG in humans
Marzia De Lucia University Hospital Lausanne
Word encoding during sleep
Simon Ruch University of Bern
The effects of working memory training on functional brain network efficiency
Lutz Jäncke University of Zurich
Improving fluid intelligence with training on working memory
Walter Perrig University of Bern
- 10:40 – 12:10 SYMPOSIUM II: **NON-INVASIVE METHODS IN NEUROLOGY AND PSYCHIATRY**
Hall 002 Coordinators: Roland Wiest, Kaspar Schindler
Source localization with EEG and MRI: advantages and drawbacks
Serge Vulliemoz University Hospital Geneva
EEG Microstates - clinical applications and beyond
Thomas Koenig University of Bern
Imaging fingerprints of neurodegenerative disorders
Bogdan Draganski University Hospital Lausanne
Near infrared spectroscopy: Finally, a tool for clinical use?
Christian Rummel University of Bern
- 12:15 – 15:30 POSTER SESSION / LUNCH / COFFEE

- 15:30 – 17:00
Hall 001 **SYMPOSIUM III: SLEEP-WAKE DISORDERS** (supported by the BENESCO)
Coordinators: Claudio Bassetti, Thomas Dierks
- The neuroimage of sleep-wake regulation**
Pierre Maquet University of Liège
- The pharmacogenetics of sleep-wake drugs**
Hans-Peter Landolt University of Zurich
- Homeostatic and circadian regulation of sleep-wake functions**
Christian Cajochen University of Basel
- Sleep and recovery from brain damage**
Claudio Bassetti University of Bern
- 15:30 – 17:00
Hall 002 **SYMPOSIUM IV: PERCEPTION, HALLUCINATIONS, AND COGNITION IN
NEURODEGENERATIVE DISEASES**
Coordinators: René Müri, Urs Mosimann
- Neurophysiology of auditory hallucinations**
Thomas Dierks University of Bern
- Visual hallucinations in Lewy body dementias**
Urs Mosimann University of Bern
- Visual Exploration in neurodegenerative disorders**
René Müri University of Bern
- Assistive technologies to enhance cognition**
Tobias Nef University of Bern
- 17:00 – 17:15 COFFEE BREAK
- 17:15 – 18:15
Hall 001 **ÖFFENTLICHER VORTRAG** (Chair: Alain Kaelin)
Ist uns die Seele abhanden gekommen?
Auswirkungen der modernen Neurowissenschaften auf unser Menschenbild
Christian W. Hess em. Direktor Neurologie, Bern
- 19:00 – **DINNER WITH SPEAKERS, ORGANIZERS AND GUESTS** (registration)

Venue: vonRoll Lectures: Fabrikstrasse 6, halls 001 & 002 Posters: Fabrikstrasse 8

Local organizers: W. Senn, A. Kaelin, S. Jung, M. Grieder, C. Michel

Scientific committee: W. Senn, A. Kaelin, C. Bassetti, W. Strik, T. Dierks, K. Henke, R. Müri, T. Nevian, C. Michel



Program SSN

- 8:30 – 9:20 REGISTRATION AND POSTER SETUP / COFFEE
- 9:20 – 9:30 WELCOME ADDRESSES
Hall 001 **Walter Perrig** Vice-Rector University of Bern
 Christoph Michel SSN President
 Claudio Bassetti CNB President
- 9:30 – 10:25 KEY NOTE I (Chair: Thomas Nevian)
Hall 001 **Engrams for genuine and false memory**
 Susumu Tonegawa MIT / RIKEN Cambridge, Nobel Prize 1987 (supported by Roche)
- 10:25 – 10:40 COFFEE BREAK
- 10:40 – 11:55 YOUNG SSN SYMPOSIUM: **Building Networks**
Hall 001 Coordinator: Laura Fernandez, Alberto Loche
 Short introduction and presentation of the young SSN
 Laurent Sheybani University of Geneva
- GABAergic circuitry assembly in health and disease, from molecular
 mechanism to function**
 Beatriz Rico University Miguel Hernández Alicante
- Active visual processing in behaving mice**
 Georg Keller Friedrich Miescher Institute Basel
- The memory function of sleep**
 Jan Born University of Tübingen
- 10:40 – 11:55 SYMPOSIUM VI: **Translational neurology: From bedside to bench and
Hall 002 back**
 Coordinators: Claudio Bassetti, Alain Kaelin
- Optogenetic dissection of sleep-wake circuits in the brain**
 Antoine Adamantidis Inselspital Bern
- Neuroprotection and stroke: any future?**
 Lorenz Hirt CHUV Lausanne
- Synuclein and Parkinson's disease**
 Hilal A. Lashuel EPFL Lausanne
- Understanding and improving how Deep Brain Stimulation works**
 Peter Brown University of Oxford



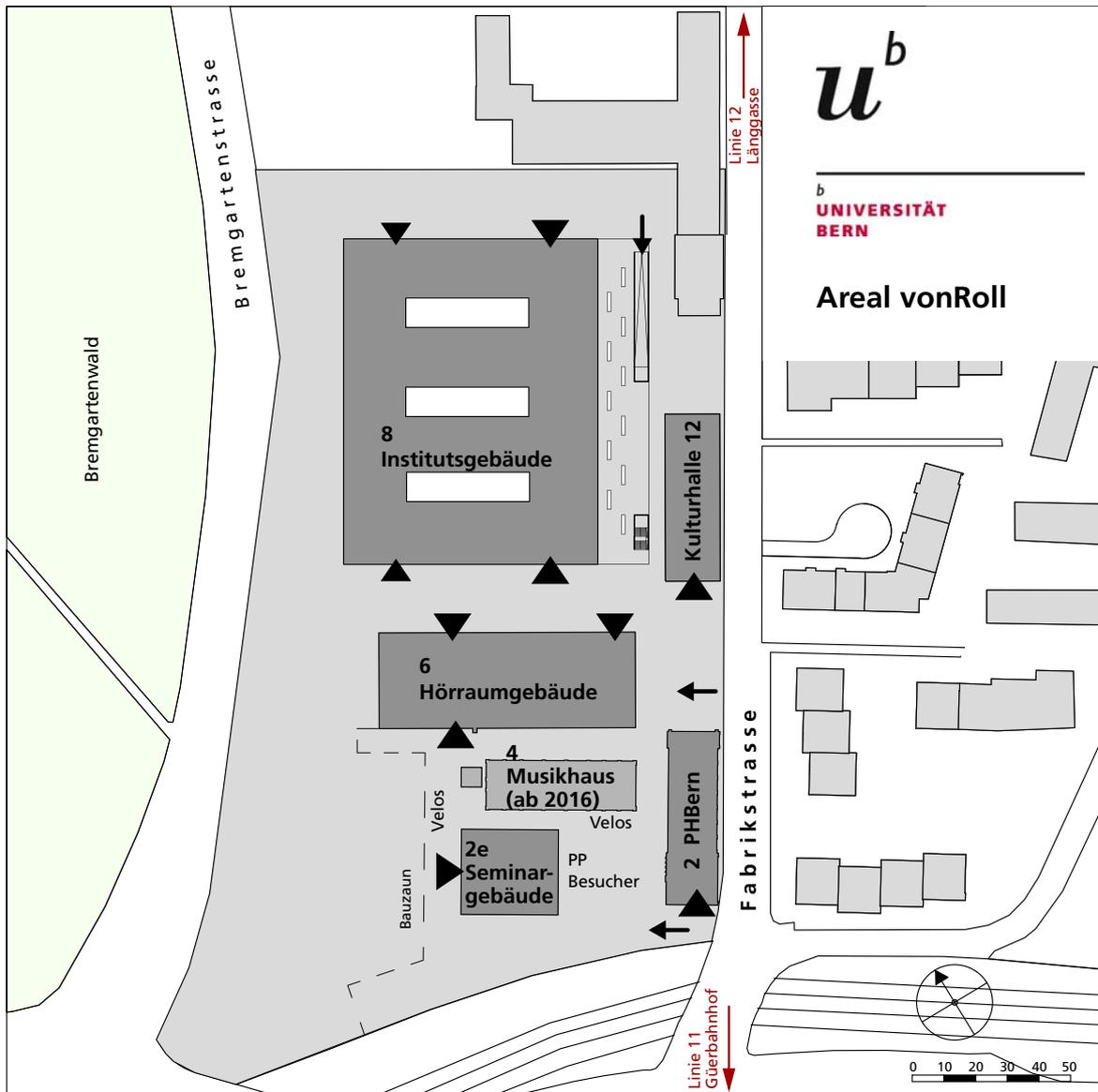
- 12:00 – 12:30 SSN BUSINESS MEETING (Hall 003)
 YSSN: Discussion with speakers on career planning (Hall 001)
 Coordinators: Mara Kottlow, Kalina Draganova
- 12:00 – 14:00 POSTER SESSION / LUNCH / COFFEE
- 14:15 – 14:55 KEY NOTE II (Chair: Claudio Bassetti)
 Hall 001 **Neuronal foundations of sleep**
 Pierre Maquet University of Liège
- 15:00 – 16:15 SYMPOSIUM VII: **In-vivo dynamics and plasticity of neuronal circuits**
 Hall 001 Coordinator: Thomas Nevian
Imaging cortical representations of behavior in the mouse brain
 Fritjof Helmchen University of Zurich
Dis-inhibition in neuronal circuits of fear
 Andreas Lüthi Friedrich Miescher Institute Basel
Mechanisms for sensory-evoked LTP in the mouse cerebral cortex
 Anthony Holtmaat University of Geneva
- 15:00 – 16:15 SYMPOSIUM VIII: **Translational biological psychiatry: focus on**
 Hall 002 **schizophrenia**
 Coordinators: Werner Strik, Thomas Dierks
The contribution of cerebral motor circuitry to psychomotor symptoms
 Sebastian Walther University of Bern
Oxidative stress in psychosis: a translational approach
 Kim Do University of Lausanne
Schizophrenia: brain morphology and treatment aspects
 Peter Falkai University of Munich
- 16:15 – 16:30 COFFEE BREAK
- 16:30 – 17:10 KEY NOTE III (Chair: Walter Senn)
 Hall 001 **Modeling synaptic plasticity across multiple time scales**
 Wulfram Gerstner EPFL Lausanne
- 17:15 – 17:35 SSN Best Publication Award
 Hall 001 Prix Schläfli
 Volker Henn Poster Prizes
- 17:40 – APERO

Venue: vonRoll Lectures: Fabrikstrasse 6, halls 001 & 002 Posters: Fabrikstrasse 8

Local organizers: W. Senn, A. Kaelin, S. Jung, M. Grieder, C. Michel

Scientific committee: W. Senn, A. Kaelin, C. Bassetti, W. Strik, T. Dierks, K. Henke, R. Müri, T. Nevian, C. Michel

Directions to vonRoll



6 Hörraumgebäude: Hall 001 / Hall 002 / Hall 003 / Registration / Coffee

8 Institutsgebäude: Poster Session / Lunch

By public transportation from Bern Bahnhof:

Bus No. 11, direction Güterbahnhof, Stop Güterbahnhof

By car from highway A1:

Exit 35 Bern Forsthaus, direction Zentrum, turn left on second crossing, pay parking located at first entrance on the left after passing the bridge (marked PP Besucher on map above)

Abstract Titles

A. Development of the Nervous System

- A1 Calsyntenin-Mediated Trafficking of Axon Guidance Receptors Regulates the Switch in Axonal Responsiveness at Choice Points**
Tobias Alther, Elena Domanitskaya, Esther Stoeckli
- A2 Role of Wnt Signalling in Commissural Axon Guidance**
Evelyn Avilés, Esther Stoeckli
- A3 Role of DiGeorge Critical Region 2 gene in cortical circuit formation**
Aude Chenu, Alexandre Dayer
- A4 Effects of altered expression of SynCAM1 and Neuroligin-1B on adult-born neuron integration and survival**
Marine Krzisch, Laura Jabinet, Jan Armida, Nicolas Toni
- A5 Effects of antagonizing Nogo-1 receptor on survival and morphological differentiation of dopaminergic neurons in mesencephalic cultures**
Stefanie Seiler, Dario Pollini, Stefano Di Santo, Hans R. Widmer
- A6 Retinal Input Directs the Recruitment of Inhibitory Interneurons Into Thalamic Visual Circuits**
Bruno Golding, Gabrielle Pouchelon, Camilla Bellone, Sahana Murthy, Subashika Govindan, Christian Lüscher, Alexandre Dayer, Denis Jabaudon
- A7 Delay of cortical thinning in very preterm born children**
Mürner-Lavanchy Ines, Nelle Mathias, Steinlin Maja, Rummel Christian, Perrig Walter J., Schroth Gerhard, Everts Regula

B. Molecular and Cellular Mechanisms: Cell-Cell Interaction

- B1 Intracellular potassium concentration in astrocytes is under the influence of both extracellular potassium levels and glutamate transport**
Theresa Rimmele, Jean-Yves Chatton
- B2 Umbilical Cord Mesenchymal Stem Cells Secretome Induces Gliogenesis**
Byron Oppliger, Marianne Jörgger-Messerli, Soleen Ghafoor, Ursula Reinhart, Ruth Sager, Andreina Schoeberlein
- B3 The ultrastructure of adult neural stem cells in the hippocampal neurogenic niche**
Jonathan Moss, Nicolas Toni
- B4 Implication of astrocytes in a mouse model of spontaneous oscillatory neuronal activity**
Anne-Béregère Rocher, Jean-Yves Chatton

B5 De-novo expression of parvalbumin in ependymal cells in response to brain injury promotes ependymal niche remodeling

Viktoria Szabolcsi, Marco R. Celio

C. Molecular and Cellular Mechanisms: Signaling

C1 Structural analysis of synaptic vesicle exocytosis by correlative cryo-fluorescence microscopy and cryo-electron tomography in rat synaptosomes

Julika Radecke, Harvey T McMahon, Benoît Zuber

C2 Recruitment of CaV3.2 channels through GluN2C-containing NMDA receptors in the nucleus Reticularis thalami

Chiara Pellegrini, Anita Lüthi, Simone Astori

C3 GABA bidirectionally controls AP firing in newly generated hippocampal granule cells

Stefanie Heigele, Josef Bischofberger

C4 Soluble factors derived from endothelial progenitors promote brain microvascular cell viability

Ramesh Periasamy, Anna-Lena Fuchs, Stefanie Seiler, Hans Rudolf Widmer, Stefano Di Santo

C5 Interaction between serotonin 1A and 2A receptor subtypes in neuronal cells

Zoya Marinova, Susanne Walitza, Edna Grünblatt

C6 Notch/RBPJ Mediated Activation of pAkt Signaling Pathway Following Seizures Results in Neurodegeneration via Erroneous Cell-Cycle Re-entry

Swananda Marathe, Shuxi Liu, Nicholas Gaiano, Lavinia Alberi

C7 Activity-dependent splice site selection and differential protein half-life distinguish CB isoform function at GABAergic synapses

Claire de Groot, Abdelhalim Azzi, Mohammed Iqbal Abdul, Giovanna Bosshard, Cornelia Schwerdel, Steven A. Brown, Shiva K. Tyagarajan

C8 Optogenetic and electrophysiological dissection of the oxytocin brain circuitry of social behavior: differential effects of oxytocin in the medial and central amygdala as a basis for its role as a social molecule

Chloé Hegoburu, Sebastien Chenaux, Eloïse Charrière, Christophe Grundschober, Ron Stoop

D. Molecular and Cellular Mechanisms: Learning and Memory

D1 Self-supervised learning of neural integrator networks

Erik Nygren, Robert Urbanczik, Walter Senn

- D2 Perisynaptic astrocytic processes are plastic structures contributing to learning and memory mechanisms**
Yann Bernardinelli, Elia Janett, Jérôme Randall, Irina Nikonenko, Emma V Jones, Carmen E Flores, Keith K Murai, Anthony Holtmaat, Christian Bochet, Dominique Muller
- D3 Regulation of microRNAs by protein phosphatase 1 in memory formation**
Bisrat T. Woldemichael, Ali Jawaid, Isabelle Mansuy
- D4 Synaptic integration in CA1 pyramidal neurons is controlled by dendritic GABAA 5 subunit- containing receptors**
Jan M. Schulz, Andrew Thomas, Maria-Clemencia Hernandez, Josef Bischofberger
- D5 DNA hydroxymethylation: a novel epigenetic mark important for memory formation**
Eloïse A. Kremer, Vanessa Hoop, Melissa A. Lee, Isabelle M. Mansuy
- D6 Physiology and ion channel expression of axons of amygdala projection neurons**
Jan Gründemann, Verena Senn, Andreas Lüthi
- D7 Early traumatic stress alters transcriptional profile, synaptic plasticity and memory performance across generations in mice**
Johannes Bohacek, Mélissa Farinelli, Osvaldo Mirante, Guido Steiner, Guillaume Coiret, Martin Ebeling, Gonzalo Durán-Pacheco, Katharina Gapp, Jean-Luc Moreau, Isabelle Mansuy
- D8 The relationship between PSD-95 clustering and synapse stability**
Michele Cane, Bohumil Maco, Graham Knott, Anthony Holtmaat
- D9 Self-stimulation of VTA DA neurons is sufficient to mimic key features of addiction in mice**
Jean Terrier, Vincent Pascoli, Christian Lüscher
- D10 Tameness selection impacts adult hippocampus neurogenesis along the septo-temporal axis in silver fox brain**
Shihhui Huang, Lutz Slomianka, Anastasiya Kharlamova, Rimma Gulevich, Lyudmila Trut, Irmgard Amrein
- D11 Deep brain stimulation reverses behavioural sensitization to cocaine**
Meaghan Creed, Christian Lüscher
- D12 Cocaine-evoked plasticity at susceptible accumbal synapses controls relapse**
Vincent Pascoli, Jean Terrier, Eoin O'Connor, Julie Espallergues, Emmanuel Valjent, Christian Lüscher
- D13 Cellular mechanisms of long-term depression at neocortical L4-L2/3 synapses in juvenile rats**
Florian Neubauer, Rogier Min, Thomas Nevian
- D14 Analyses of sub-regional functions of the adult mouse hippocampus in memory formation by proteomic profiling**
Lukas von Ziegler, Isabelle Mansuy

E. Neural Excitability Synapses: Functional Aspects

- E1 RIM-Binding Protein Promotes Homeostatic Modulation of Neurotransmitter Release and Resupply of Release-Ready Vesicles**
Martin Müller, Graeme W Davis
- E2 Localization of glycinergic neurons selectively activated during paradoxical sleep in the rat: their potential role in the control of muscle atonia**
Sara Valencia Garcia, Olivier Clément, Paul-Antoine Libourel, Sébastien Arthaud, Pierre-Hervé Luppi, Patrice Fort
- E3 Firing modes of dopamine neurons drive bidirectional GIRK channel plasticity**
Arnaud Lalive, Michaelanne Munoz, Camilla Bellone, Paul Slesinger, Christian Lüscher, Kelly Tan
- E4 Serotonergic modulation of whisker-evoked responses in the mouse barrel cortex**
Foivos Markopoulos, Stépnane Pagès, Anthony Holtmaat
- E5 In vivo measurement of synaptic transmission between identified neurons in layer 2/3 mouse barrel cortex**
Aurélie Pala, Carl C. C. H. Petersen
- E6 Roles for group II metabotropic glutamate receptors in hippocampal LTP**
Nadia Rosenberg, Urs Gerber, Jeanne Ster

F. Brain Metabolism and Homeostasis

- F1 Altered microRNAs expression in synaptic plasticity in the adult mouse barrel cortex**
Ines Khadimallah, Nathalie Wenger, Rudolf Kraftsik, Romano Regazzi, Guylène Kirschmann, Egbert Welker
- F2 Hydrocephalus caused by forebrain specific ferritin H inactivation in mice**
Claude Schweizer, Patrick Fraering, Lukas Kühn
- F3 Single cell lactate and glucose measurements in awake mice**
Matthias T Wyss, Marc Zünd, Philipp Mächler, Sylvain Lengacher, Pierre J Magistretti, Felipe L Barros, Bruno Weber

G. Cognitive and Behavioral Neuroscience

- G1 A Task of Sustained Attention to Sound in Rat**
Elena Andreeva, Wolfger von der Behrens, Kevan A. C. Martin
- G2 Variability of manual dexterity performance in non-human primates (Macaca fascicularis): comparison of learning and plateau phases**
Michela Fregosi, Mélanie Kaeser, Pauline Chatagny, Anne-Dominique Gindrat, Julie Savidan, Simon Badoud, Véronique Moret, Christine Roulin, Eric Schmidlin, Eric M. Rouiller

- G3 The impact of automatic alcohol associations on drinking behavior is moderated by baseline activation in the lateral prefrontal cortex**
Malte Friese, Lorena Gianotti, Daria Knoch
- G4 Impartiality in humans is predicted by brain structure of dorsomedial prefrontal cortex**
Thomas Baumgartner, Bastian Schiller, Christopher Hill, Daria Knoch
- G5 BODY WEIGHT INFLUENCES THE INTERPLAY OF BRAIN DYNAMICS TO FOOD VIEWING AND GASTRIC HORMONE SECRETION**
Marie-Laure Bielser, Léonie Egli, Vanessa C. Campos, Luc Tappy, Vittorio Giusti, Micah M. Murray, Ulrike Toepel
- G6 Bi-directional control of fear learning by amygdala interneurons**
Steffen Wolff, Jan Gründemann, Philip Tovote, Sabine Krabbe, Gilad Jacobson, Christian Müller, Cyril Herry, Rainer Friedrich, Johannes Letzkus, Andreas Lüthi
- G7 A MATLAB based eye tracking control system using non-invasive helmet head restraint in the macaque**
Paolo de Luna, Mohamed Faiz Bin Mohamed Mustafar, Gregor Rainer
- G8 Simultaneous EEG-fMRI of decision making in juvenile attention deficit/hyperactivity disorder (ADHD)**
Tobias U. Hauser, Reto Iannaccone, Christoph Mathys, Juliane Ball, Daniel Brandeis, Susanne Walitza, Silvia Brem
- G9 Frontal cannabinoid system activation disrupts decision making based on different decision costs**
Abbas Khani, Mojtaba Kermani, Soghra Hesam, Abbas Haghparast, Enrike Argandona, Gregor Rainer
- G10 Developing Lexical Disambiguation: Semantic Networks and Executive Control in Children**
Martina Röthlisberger
- G11 Predicting benefits of multisensory memories**
Antonia Thelen, Micah M. Murray
- G12 The influence of positive and negative valence of events on the intention superiority effect over the life-course**
Stefan Walter, Beat Meier
- G13 Ecological Validity of Virtual-Reality-Daily-Living-Activities screening for early dementia: A longitudinal study**
Ioannis Tarnanas, Winfried Schlee, Magda Tsolaki, René Müri, Urs Mosimann, Tobias Nef
- G14 Reduced Ultrasonic Vocalizations in Rats after a Kainic Acid-Induced Lesion of the PV1-Foxb1 Nucleus**
Diana M. Roccaro-Waldmeyer, Alexandre Babalian, Marco R. Celio

- G15 Effects of age and eccentricity on visual search performance**
Nicole Gruber, René M. Müri, Urs P. Mosimann, Rahel Bieri, Andrea Aeschimann, Giuseppe A. Zito, Prabitha Urwyler, Thomas Nyffeler, Tobias Nef
- G16 Left temporal alpha-band activity reflects single word intelligibility**
Robert Becker, Maria Pefkou, Christoph Michel, Alexis Hervais-Adelman
- G17 Sound recognition is influenced by single-trial multisensory memories**
Sarah Amrein, Antonia Thelen, Micah M. Murray
- G18 Tracing neuronal circuits of fear using rabies-based tools**
Chun Xu, Paolo Botta, Andreas Luethi
- G19 Gesture performance is associated with understanding of nonverbal social information and postural knowledge in patients with schizophrenia**
Sebastian Walther, Katharina Stegmayer, Tim Vanbellingen, Andrea Federspiel, Werner Strik, Stephan Bohlhalter
- G20 Mouse models for the study of the stress-inflammation-dopamine hypothesis for depression**
Giorgio Bergamini, Damiano Azzinnari, Hannes Sigrist, Jonas Mechtersheimer, René Fürtig, Erich Seifritz, Christopher Pryce
- G21 Does fear for pain affect disgust sensations? Cross-modal anticipatory effects between nociception and olfaction**
Gil Sharvit, Corrado Corradi-Dell'Acqua, Sylvain Delplanque, Patrik Vuilleumier
- G22 Observational Learning in Zebra Finches**
Gagan Narula, Richard Hahnloser
- G23 Dissecting cortical circuits dynamics underlying neuroprosthetic learning with a novel optical brain-machine interface**
Mario Prsa, Florian Hubner, Gregorio Galinanes, Claudia Bonardi, Daniel Huber
- G24 Dissociating target from flanker processing in visual crowding by EEG frequency-tagging**
Vitaly Chicherov, Michael H. Herzog
- G25 Navigational planning**
Azadeh Khajeh-Alijani, Robert Urbanczik, Walter Senn
- G26 Anxiety influences social dominance and acts through the mesolimbic system.**
Michael van der Kooij, Fiona Hollis, Carmen Sandi
- G27 Notch1 activity in mitral cells is odor dependent and contributes to olfactory behavior.**
Emanuele Brai, Swananda Marathe, Lorena Zentilin, Mauro Giacca, Johannes Nimpf, Robert Kretz, Rüdiger Klein, Alessandra Luisa Scotti, Lavinia Alberi
- G28 A Novel Paradigm for Investigating Motion Adaptation**
A.W. Ellis, F.W. Mast

- G29 Source memory of visual imagery: a hierarchical multinomial processing tree model**
Antonia Krefeld, Andrew W. Ellis, Margit E. Oswald
- G30 Optogenetic loss-of-function mapping of cortical motor circuits involved in voluntary action**
Karin Morandell, Gregorio Galinanes, Daniel Huber
- G31 The brain's default state interacts with working memory processes in a complex and load- dependent manner**
Mara Kottlow, Anja Bänninger, Anthony Schläpfer, Daniel Brandeis, Thomas Koenig
- G32 Experience-dependent plasticity changes across human development**
Ines Wilhelm, Salome Kurt, Maya Ringli, Anne-Laure Mouthon, Anja Geiger, Oskar G. Jenni, Reto Huber
- G33 The eye contact effect during an emotional working memory paradigm**
Cristina Berchio, Tonia A Rihs, Camille Piguët, Alexandre Dayer, Jean-Michel Aubry, Christoph M Michel
- G34 Ultrarapidly presented visual stimuli affect processing of subsequent categorical information**
Robert Becker, Holger Sperdin, Theodor Landis, Christoph Michel
- G35 CRF Neurons in the Central Amygdala Mediate Conditioned Active Fear Behavior**
Jonathan Fadok, Philip Tovote, Chun Xu, Kristine Bylund, Christian Mueller, Andreas Luethi
- G36 Hierarchical network of vocalizations in songbird groups**
Alexei Vyssotski, Victor Anisimov, Alexander Latanov, Richard Hahnloser
- G37 Developmental changes in the dopamine system link maternal infection to reward deficits and obesity**
Marie Labouesse, Wolfgang Langhans, Urs Meyer
- G38 Characterization of the sleep pattern and behaviour in dopamine neuron-specific orexin type 2 receptor knockout mice**
Sha Li, Anne Vassalli, Christina Schrick, Paul Franken, Mehdi Tafti
- G39 Environmental enrichment including exercise reverts high-altitude induced impairment of spatial and visual memory in rats**
Edith Marianne Schneider Gasser, Maria Alvarez Sanchez, Markus Thiersch, Lavinia Alberi, Dmitry Kosenkov, Caroline Leuenberger, Enrike G. Argandoña
- G40 Electrophysiological correlates of delinquent behavior in adults with ADHD symptomatology**
Nadja Meier, Walter Perrig, Thomas Koenig
- G41 Neural effect of memory training in children born very preterm**
Regula Everts, Ines Mürner-Lavanchy, Gerhard Schroth, Maja Steinlin
- G42 Off-line consolidation in implicit sequence learning**
Beat Meier, Josephine Cock

G43 Influencing implicit task sequencing learning and consolidation with transcranial electric stimulation

Branislav Savic, René Müri, Beat Meier

H. System Neuroscience and Neuroinformatics

H1 The local circuit of cortical area Frontal Eye Fields in macaque cortex.

John Anderson, Kevan Martin

H2 The coaxial PV1-Foxb1-nucleus sends projections to the PAG

Alessandro Bilella, Gonzalo Alvarez-Bolado, Marco R. Celio

H3 Infrequent simple cells in the tree shrew primary visual cortex

Julia Veit, Anwesha Bhattacharyya, Robert Kretz, Gregor Rainer

H4 Cortical circuits matching body metabolic signals and behavior

Isabel De Araujo Salgado, Christophe Lamy

H5 Short-term facilitation as a normative consequence of presynaptic spike-rate adaptation

Simone Carlo Surace, Jean-Pascal Pfister

H6 Membrane potential dynamics of stimulus-specific adaptation in mouse auditory cortex

I-Wen Chen, Fritjof Helmchen, Henry Lütcke

H7 Right dorsal and ventral auditory pathways for processing vocal emotions

Sascha Frühholz, Markus Gschwind, Didier Grandjean

H8 Temporal organization of EEG microstate sequences alters during pharmacologically induced loss of consciousness

Juliane Britz, Julien Maillard, Miralena Tomescu, Christopher Lysakowski, Christoph Michel, Martin Tramer

H9 A computational model of auditory cortex to explore the role of GABAergic inhibition in age-related hearing loss

David Amooti Magezi

H10 Large scale imaging of neuronal structure in the mouse neocortex in vivo

Daniel Lebrecht, Marta-Milena Dimanico, Karin Morandell, Przemyslaw Glowacki, Vanessa Schubert, Pascal Fua, Daniel Huber, Anthony Holtmaat

H11 Reconstruction of neuronal activity and connectivity patterns in the zebrafish olfactory bulb

Adrian A. Wanner, Christel Genoud, Rainer W. Friedrich

I. Brain Imaging

- I1 Will you feel it? The influence of brain states on conscious tactile perception.**
Julia Frey, Nathan Weisz
- I2 Repeatability of global and local network metrics in a test-retest of brain structural networks.**
Jennifer Andreotti, Kay Jann, Lester Melie-Garcia, Thomas Dierks, Andrea Federspiel
- I3 Sensitivity of communicability metrics in the case of lesions in the brain structural network.**
Jennifer Andreotti, Kay Jann, Lester Melie-Garcia, Thomas Dierks, Andrea Federspiel
- I4 Emotional Rivalry: Homeostatic Emotions are Prioritized over Competing Sensory Emotions**
Lea Meier, Hergen Friedrich, Andrea Federspiel, Kay Jann, Basile Landis, Roland Wiest, Werner Strik, Thomas Dierks
- I5 Inverse correlation between white matter cerebral blood flow and structural connectivity of the human brain**
Stéphanie Giezendanner, Melanie S. Fisler, Leila M. Soravia, Jennifer Andreotti, Sebastian Walther, Roland Wiest, Thomas Dierks, Andrea Federspiel
- I6 Inverse correlation between white matter cerebral blood flow and functional connectivity in resting state networks of the human brain**
Stéphanie Giezendanner, Melanie S. Fisler, Leila M. Soravia, Jennifer Andreotti, Sebastian Walther, Roland Wiest, Thomas Dierks, Andrea Federspiel
- I7 Neural correlates of global timing processing in the auditory domain**
Eveline Geiser, Micah Murray, John D.E. Gabrieli
- I8 Modulation of Tonotopic Maps by Focal Brain Lesions: case studies**
Sandra Da Costa, Lea Zahnd, Wietske van der Zwaag, Reto Meuli, Melissa Saenz, Stephanie Clarke
- I9 Dorsolateral prefrontal cortex thinning is related to altered functional connectivity with default mode and task-positive networks in major depressive disorder**
Jakub Späti, Jürgen Hänggi, Jutta Ernst, Nadja Doerig, Fabio Sambataro, Janis Brakowski, Lutz Jäncke, Martin grosse Holtforth, Erich Seifritz, Simona Spinelli
- I10 fMRI with and without EEG, does it make a difference?**
Carina Klein, Jürgen Hänggi, Roger Lüchinger, Lutz Jäncke
- I11 Cutting Liking at its Joints: Neural Patterns of Olfactory Emotions**
Aline Pichon, Géraldine Coppin, Sylvain Delplanque, Corrado Corradi-dell'Acqua, Christian Margot, David Sander, Patrik Vuilleumier
- I12 In vivo characterization of a novel fluorescent pipette coating for targeted single cell physiology**
Gregorio Galiñanes, Daniel Huber, Mladen Barbic, John H Macklin, Kimihiro Susumu, James B Delehanty, Alan L Huston, Judit K Makara, Igor L Medintz, Bertalan K Andrásfalvy

- I13 Postural knowledge of gestures in patients with schizophrenia is associated with gray matter volume of the right inferior frontal gyrus and the left hippocampus. Preliminary results of a whole brain voxel based morphometry (VBM) study.**
Katharina Stegmayer, Tim Vanbellinghen, Andrea Federspiel, Stephan Bohlhalter, Werner Strik, Roland Wiest, Sebastian Walther
- I14 A correlative light and electron microscopy approach for reconstructing syringeal motor neuron circuits in a songbird**
Thomas Templier, Coen P. H. Elemans, Richard H. R. Hahnloser
- I15 Electrical source imaging in epilepsy: a comparison of three head models**
Gwénaél Birot, Laurent Spinelli, Serge Vulliémoz, Pierre Mégevand, Margitta Seeck, Christoph Michel
- I16 Connectivity-based neurofeedback: dynamic causal modeling for real-time fMRI**
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