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
Contents

Contents..................................................................................................................3
Program CNB........................................................................................................4
Program SSN .....................................................................................................6
Directions to vonRoll............................................................................................8
Abstract Titles .....................................................................................................9
   A. Development of the Nervous System.................................................................9
   B. Molecular and Cellular Mechanisms: Cell-Cell Interaction .........................9
   C. Molecular and Cellular Mechanisms: Signaling.............................................10
   D. Molecular and Cellular Mechanisms: Learning and Memory......................10
   E. Neural Excitability Synapses: Functional Aspects..........................................12
   F. Brain Metabolism and Homeostasis.................................................................12
   G. Cognitive and Behavioral Neuroscience........................................................12
   H. System Neuroscience and Neuroinformatics .................................................16
   I. Brain Imaging ....................................................................................................17
   J. Disorders of the Nervous System: Basic Mechanisms.....................................19
   K. Clinical Neuroscience.....................................................................................20
Author List..........................................................................................................23
Sponsors................................................................................................................36
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
Martijn 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 SYMPOSIUM III: SLEEP-WAKE DISORDERS (supported by the BENESCO)
Hall 001
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 SYMPOSIUM IV: PERCEPTION, HALLUCINATIONS, AND COGNITION IN NEURODEGENERATIVE DISEASES
Hall 002
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 ÖFFENTLICHER VORTRAG (Chair: Alain Kaelin)
Hall 001
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
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 back
Hall 002
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
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 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
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 Rimmelte, Jean-Yves Chatton

B2 Umbilical Cord Mesenchymal Stem Cells Secretome Induces Gliogenesis
Byron Oppliger, Marianne Jörger-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-Bérengère Rocher, Jean-Yves Chatton
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 Grund schober, 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 Bernardino, Elia Janett, Jerôme 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, Guyllaume 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

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

### F. Brain Metabolism and Homeostasis

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

### G. Cognitive and Behavioral Neuroscience

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

Impartiality in humans is predicted by brain structure of dorsomedial prefrontal cortex
Thomas Baumgartner, Bastian Schiller, Christopher Hill, Daria Knoch

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

Bi-directional control of fear learning by amygdala interneurons
Steffen Wolff, Jan Gründemann, Philip Toyote, Sabine Krabbe, Gilad Jacobson, Christian Müller, Cyril Herry, Rainer Friedrich, Johannes Letzkus, Andreas Lüthi

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

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

Frontal cannabinoid system activation disrupts decision making based on different decision costs
Abbas Khani, Mojtaba Kermani, Soghra Hesam, Abbas Haghparast, Enrike Argandona, Gregor Rainer

Developing Lexical Disambiguation: Semantic Networks and Executive Control in Children
Martina Röthlisberger

Predicting benefits of multisensory memories
Antonia Thelen, Micah M. Murray

The influence of positive and negative valence of events on the intention superiority effect over the life-course
Stefan Walter, Beat Meier

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

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-Aljani, 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 Piguet, 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
### H. System Neuroscience and Neuroinformatics

<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>The local circuit of cortical area Frontal Eye Fields in macaque cortex</td>
<td>John Anderson, Kevan Martin</td>
</tr>
<tr>
<td>H2</td>
<td>The coaxial PV1-Foxb1-nucleus sends projections to the PAG</td>
<td>Alessandro Bilella, Gonzalo Alvarez-Bolado, Marco R. Celio</td>
</tr>
<tr>
<td>H3</td>
<td>Infrequent simple cells in the tree shrew primary visual cortex</td>
<td>Julia Veit, Anwesha Bhattacharyya, Robert Kretz, Gregor Rainer</td>
</tr>
<tr>
<td>H4</td>
<td>Cortical circuits matching body metabolic signals and behavior</td>
<td>Isabel De Araujo Salgado, Christophe Lamy</td>
</tr>
<tr>
<td>H5</td>
<td>Short-term facilitation as a normative consequence of presynaptic spike-rate adaptation</td>
<td>Simone Carlo Surace, Jean-Pascal Pfister</td>
</tr>
<tr>
<td>H6</td>
<td>Membrane potential dynamics of stimulus-specific adaptation in mouse auditory cortex</td>
<td>I-Wen Chen, Fritjof Helmchen, Henry Lütcke</td>
</tr>
<tr>
<td>H7</td>
<td>Right dorsal and ventral auditory pathways for processing vocal emotions</td>
<td>Sascha Frühholz, Markus Gschwind, Didier Grandjean</td>
</tr>
<tr>
<td>H8</td>
<td>Temporal organization of EEG microstate sequences alters during pharmacologically induced loss of consciousness</td>
<td>Juliane Britz, Julien Maillard, Miralena Tomescu, Christopher Lysakowski, Christoph Michel, Martin Tramer</td>
</tr>
<tr>
<td>H9</td>
<td>A computational model of auditory cortex to explore the role of GABAergic inhibition in age-related hearing loss</td>
<td>David Amooti Magezi</td>
</tr>
<tr>
<td>H10</td>
<td>Large scale imaging of neuronal structure in the mouse neocortex in vivo</td>
<td>Daniel Lebrecht, Marta-Milena Dimanico, Karin Morandell, Przemyslaw Glowacki, Vanessa Schubert, Pascal Fua, Daniel Huber, Anthony Holtmaat</td>
</tr>
<tr>
<td>H11</td>
<td>Reconstruction of neuronal activity and connectivity patterns in the zebrafish olfactory bulb</td>
<td>Adrian A. Wanner, Christel Genoud, Rainer W. Friedrich</td>
</tr>
</tbody>
</table>
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, Pattrk 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 Delehanty5, Alan L Huston, Judit K Makara, Igor L Medintz, Bertalan K Andrásfalvy
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 Vanbellingen, Andrea Federspiel, Stephan Bohlhalter, Werner Strik, Roland Wiest, Sebastian Walther

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

Electrical source imaging in epilepsy: a comparison of three head models
Gwénaël Birot, Laurent Spinelli, Serge Vulliémoz, Pierre Mégevand, Margitta Seeck, Christoph Michel

Connectivity-based neurofeedback: dynamic causal modeling for real-time fMRI
Yury Koush, Maria Joao Rosa, Fabien Robineau, Klaartje Heinen, Nikolaus Weiskopf, Patrik Vuilleumier, Dimitri Van De Ville, Frank Scharnowski

Functional neuro-anatomy of egocentric versus allocentric representation
Benoit Musel, Arnaud Saj, Yann Cojan, Jacques Honoré, Liliane Borel, Patrik Vuilleumier

The interactive role of the Medial Temporal Lobe explains personal probabilistic learning
Valérie Zufferey, Stanislaw Adaszewski, Sandrine Muller, Bogdan Draganski, Ferath Kherif

The influence of sodium oxybate and sleep on reward processing: an fMRI study
Jeremy Hofmeister, Virginie Sterpenich, Kinga Igloi, Martin Desseilles, Markus Gschwind, Sophie Schwartz

3D Analysis of Neuronal Ultrastructure
Bohumil Maco, Christel Genoud, Anne Jorstad, Biagio Nigro, Corrado Cali, Graham Knott

Magnetic resonance spectroscopy investigations of functionally defined language areas in schizophrenia
Philipp Homan, Peter Vermathen, Claudia Van Swam, Andrea Federspiel, Chris Boesch, Werner Strik, Thomas Dierks, Daniela Hubl, Roland Kreis

The sound (and pitch) of silence: experience-based auditory predictions modulate the spatio-temporal brain processing of omitted sounds
Leila Chouiter, Sebastian Dieguez, Jean-Marie Annoni, David Magezi, Lucas Spierer

Dynamics of directed information transfer in visual processes
Gijs Plomp, Alexis Hervais-Adelman, Laura Astolfi, Christoph Michel

Neural Correlates of Passive Forefinger Kinematics: A robotics and neuroimaging approach
Julio Dueñas, James Sulzer, Philipp Stämpfli, Marie-Claude Hepp-Reymond, Spyros Kollias, Erich Seifritz, Roger Gassert
| J1 | Implication of sperm RNAs in the inheritance of the effects of early traumatic stress in mice |
| J2 | Delayed repeated treatment with baclofen promotes neuronal plasticity and functional recovery after stroke in rats |
| J3 | Spontaneous locomotor activity and L-DOPA induced dyskinesia are not linked in 6-OHDA parkinsonian rats |
| J4 | Striatal NMDA receptors and Parkinson’s disease |
| J5 | In experimental pneumococcal meningitis, MMP and TACE inhibitors impair brain injury |
| J6 | Lithium Protects Neurons from Apoptosis in Experimental Pneumococcal Meningitis |
| J7 | Plasticity of dendritic properties of cortical pyramidal neurons in a chronic pain model |
| J8 | Role of Glia in CNS Repair After Stroke |
| J9 | ASIC1a contributes to AMPA receptor plasticity following ischemia and acidosis in hippocampal CA1 neurons |
| J10 | Neuroprotective role of umbilical cord-derived mesenchymal stromal cells in a rat model of encephalopathy of prematurity |
| J11 | Disturbed excitation-inhibition balance in a human embryonic stem cell-derived model for Tuberous sclerosis |
| J12 | The putative role of parvalbumin in Autism Spectrum Disorders |
| J13 | Functional regeneration of intraspinal connections in vitro |
| J14 | Paracrine factors promote neurogenesis in the adult rat brain |
J15  **Expression of Cocaine-Evoked Synaptic Plasticity by GluN3A-Containing NMDA Receptors**  
Tifei Yuan, Manuel Mameli, Eoin O’Connor, Partha Dey, Chiara Verpelli, Carlo Sala, Isabel Perez-Otano, Christian Lüscher, Camilla Bellone

J16  **Down-regulation of Shank3 in the VTA impairs postnatal maturation of excitatory synapses onto DA neurons.**  
Sebastiano Bariselli, Eoin Cornelius O’Connor, Chiara Verpelli, Carlo Sala, Christian Luscher, Camilla Bellone

J17  **Fine motor control affected by transient inactivation of primary motor cortex using repetitive transcranial stimulation**  
Mélanie Kaeser, Camille Roux, Michela Fregosi, Julie Savidan, Lucas Spierer, Eric Rouiller, Eric Schmidlin

J18  **Functional recovery of manual dexterity in non-human primates following a motor cortex lesion assessed with the Brinkman box task**  
Anne-Dominique Gindrat, Cindy Leuthard, Mélanie Kaeser, Alexander F. Wyss, Eric M. Rouiller

J19  **Functional reorganization of the medial temporal lobe memory system following neonatal hippocampal damage in monkeys**  
Loïc J. Chareyron, Pamela Banta Lavenex, David G. Amaral, Pierre Lavenex

J20  **Investigating the dynamics of epileptic networks in a mouse model of temporal lobe epilepsy**  
Laurent Sheybani, Charles Quairiaux, Christoph M Michel

J21  **Involvement of the receptor for advanced glycation end-product (RAGE) in redox dysregulation and neuroinflammation in an animal model of schizophrenia**  
Daniella Dwir, Jan-Harry Cabungcal, Margot Fournier, Pascal Steullet, Rabindra Tirovanziam, Kim Q. Do Cuénod

J22  **Adaptation to Incomitant Vergence Disparity**  
Muriel Dysli, Mathias Abegg

J23  **Differential effect of FAD-APP and g-secretase modulators of APP processing**  
Mitko Dimitrov, Patrick Fraering

---

**K. Clinical Neuroscience**

K1  **Severity of neglect may increase with motion - insights from a touchscreen-based cancellation task**  
Simone Hopfner, Sonja Kesselring, Dario Cazzoli, Klemens Gutbrod, Tobias Nef, Urs Mosimann, Stephan Bohlhalter, Claudio L. Bassetti, René M. Müri, Thomas Nyffeler

K2  **Visual exploration of co-speech gestures in aphasic patients: An eye-tracking study**  
Noëmi Eggenberger, Basil C. Preisig, Giuseppe Zito, Simone Hopfner, Tim Vanbellingen, Rahel Schumacher, Thomas Nyffeler, Klemens Gutbrod, Claudio L. Bassetti, René M. Müri
K3 Perception of co-speech gestures during dyadic conversations: Evidence for altered gaze patterns in aphasic patients
Basil Christoph Preisig, Noëmi Eggenberger, Giuseppe Zito, Rahel Schumacher, Simone Hopfner, Tim Vanbellingen, Thomas Nyffeler, Klemens Gutbrod, Claudio Bassetti, René Martin Müri

K4 Transcriptome analysis of sleep deprivation associated neuroprotection in a rodent model of stroke
Marta Pace, Francesca Baracchi, Gao Bo, Claudio Bassetti

K5 An fMRI-Study on context-specificity of inhibitory functions in alcohol-dependency: Preliminary results
Kathryn Heri, Werner Fey, Andrea Federspiel, Franz Moggi, Maria Stein

K6 Feasibility of neurofeedback training to modify brain states relevant for mental health.
Laura Diaz Hernàndez, Béatrice Zumkehr, Anja Bänninger, Thomas Koenig

K7 How theta amplitude is related to fMRI resting state networks during working memory in patients with schizophrenia
Anja Bänninger, Mara Kottlow, Laura Diaz Hernàndez, Kathryn Heri, Thomas Koenig

K8 Improving robustness of brain GABA measurements in human brain
Roland Kreis, Christine Sandra Bolliger, Erin Leigh MacMillan, Uwe Boettcher, Chris Boesch

K9 Neural correlates and predictive value of auditory discrimination in early coma and hypothermia
Athina Tzovara, Andrea O. Rossetti, Elsa Juan, Marina Pagliaro, Mauro Oddo, Marzia De Lucia

K10 Visual symptoms in Parkinson’s disease
Prabitha Urwyler, Tobias Nef, Alison Killen, Daniel Collerton, Alan Thomas, David Burn, Ian McKeith, Urs Peter Mosimann

K11 Deviant dynamics of EEG resting state pattern in 22q11.2 deletion syndrome adolescents: a vulnerability marker of schizophrenia?
Miralena I. Tomescu, Tonia A. Rihs, Robert Becker, Juliane Britz, Anna Custo, Frédéric Grouiller, Maude Schneider, Martin Martin Debbané, Stephan Eliez, Christoph M. Michel

K12 Impaired slow wave sleep downscaling in West syndrome – a malignant epilepsy of infancy
Sara Fattinger, Bernhard Schmitt, Bigna Bölsterli Heinzle, Hanne Critelli, Oskar Jenni, Reto Huber

K13 Electrophysiological Monitoring of Residual Hearing During and After Cochlear Implantation
Adrian Dalbert, Rahel Gerig, Alexander Huber

K14 Development and evaluation of a new instrument to measure higher visual functions
Giuseppe Zito, Urs Mosimann, René Müri, Tobias Nef

K15 Prognostic and diagnostic value of quantitative EEG in comatose patients
Frederic Zubler, Christa Koenig, Andreas Steimer, Stephan M. Jakob, Kaspar Schindler, Heidemarie Gast
K16 Feasibility of peak cardiovascular exercise testing using a robotics-assisted tilt table in dependent-ambulatory stroke patients
Jittima Saengsuwan, Corina Schuster-Amft, Tobias Nef, Kenneth Hunt

K17 Functional ictal networks in patients with pharmacoresistant epilepsy
Frederic Zubler, Heidemarie Gast, Eugenio Abela, Christian Rummel, Martinus Hauf, Claudio Pollo, Roland Wiest, Kaspar Schindler

K18 The heart in the head: EEG-fMRI pulse artifact detection and correction using high density EEG topography
Giannina Rita Iannotti, Frederic Grouiller, Francesca Pittau, Serge Vuillemeoz, Christoph Michel

K19 An electrophysiological investigation of emotional change: preliminary results
Kristina Rohde, Franz Caspar, Thomas Koenig, Antonio Pascual-Leone, Maria Stein

K20 Narcolepsy-Cataplexy and its awareness in Switzerland
J. A. Ulbrich, Johannes Mathis

K21 Dynamic effective connectivity of epileptic networks of Left versus Right Temporal lobe epilepsy using scalp EEG
Ana Coito, Gijs Plomp, Roland Wiest, Eugenio Abela, Seeck Margitta, Christoph Michel, Serge Vuillemez

K22 Reducing the error: Regional effects of HRF basis functions on EEG-microstate informed fMRI
Simon Schwab, Yosuke Morishima, Thomas Koenig, Thomas Dierks, Andrea Federspiel, Kay Jann

K23 Tracking sentence comprehension processes in healthy controls and aphasic patients
Rahel Schumacher, Tobias Nef, Klemens Gutbrod, René M. Müri

K24 Changes in cerebral blood flow following combined psychotherapy and cortisol treatment for spider phobia: a marker for treatment outcome?
Ariane Orosz, Leila Soravia, Kay Jann, Roland Wiest, Thomas Dierks, Andrea Federspiel

K25 Characterizing cognitive and functional outcome after cardiac arrest
Elsa Juan, Valérie Beaud, Mauro Oddo, Marzia De Lucia, Andrea O. Rossetti, Stephanie Clarke

K26 Discovering resting EEG microstate abnormality in semantic dementia
Matthias Grieder, Thomas Koenig, Lars-Olof Wahlund, Thomas Dierks, Keiichiro Nishida

K27 Effect of carotid stenosis treatment on cognitive functions
Manuela Wapp, Yulia Burren, F. Kellner-Weldon, Marwan El-Koussy, P. Michel, Gerhard Schroth, Regula Everts
<table>
<thead>
<tr>
<th>Last name</th>
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<tbody>
<tr>
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<td>Abela</td>
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<td>K17, K21</td>
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<td>Adaszewski</td>
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<td>G28</td>
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<td>Ernst</td>
<td>Jutta</td>
<td>I9</td>
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</tbody>
</table>
Espallergues  Julie  D12
Everts  Regula  A7  G41  K27
Fadok  Jonathan  G35
Farinelli  Laurent  J1
Farinelli  Mélissa  D7
Fattinger  Sara  K12
Federspiel  Andrea  G19  I2  I3  I4  I5  I6  I13  I21  K5  K22  K24
Fey  Werner  K5
Filice  Federica  J12
Fisler  Melanie S.  I5  I6
Flores  Carmen E  D2
Fort  Patrice  E2
Fournier  Margot  J21
Fraering  Patrick  F2  J23
Franken  Paul  G38
Fregosi  Michela  G2  J17
Frey  Julia  I1
Friedrich  Hergen  I4
Friedrich  Rainer W.  G6  H11
Fries  Malte  G3
Frühholz  Sascha  H7
Fua  Pascal  H10
Fuchs  Anna-Lena  C4
Fürtig  René  G20
G. Argandoña  Enrike  G39
Gabrieli  John D.E.  I7
Gaiano  Nicholas  C6
Galinanes  Gregorio  G23  G30  I12
Gapp  Katharina  D7  J1
Gassert  Roger  I24
Gast  Heidemarie  K15  K17
Geiger  Anja  G32
Geiser  Eveline  I7
Genoud  Christel  H11  I20
Gerber  Urs  E6
Gerig  Rahel  K13
Ghafoor  Soleen  B2
Giacca  Mauro  G27
Gianotti  Lorena  G3
Giezendanner  Stéphanie  I5  I6
Gindrat  Anne-Dominique  G2  J18
Giusti  Vittorio  G5
Glowacki  Przemyslaw  H10
Golding  Bruno  A6
Govindan  Subashika  A6
Grandgirard  Denis  J5  J6
Grandjean  Didier  H7
Grieder  Matthias  K26
Jabinet Laura A4
Jacobson Gilad G6
Jagasia Ravi J11
Jakob Stephan M. K15
Jäncke Lutz I9 I10
Janett Elia D2
Jann Kay I2 I3 I4 K22 K24
Jawaid Ali D3
Jenni Oskar G. G32 K12
Jones Emma V D2
Jörger-Messerli Marianne B2 J10
Jorstad Anne I20
Juan Elsa K9 K25
Kaelin-Lang Alain J3 J4
Kaeser Mélanie G2 J17 J18
Kellenberger Stephan J9
Kellner-Weldon Frauke K27
Kermani Mojtaba G9
Kesselerling Sonja K1
Khadimallah Ines F1
Khajeh-Alijani Azadeh G25
Khani Abbas G9
Kharlamova Anastasiya D10
Kherif Ferath I18
Killen Alison K10
Kirschmann Guylène F1
Klein Carina I10
Klein Rüdiger G27
Knoch Daria G3 G4
Knott Graham D8 I20
Koenig Christa K15
Koenig Thomas G31 G40 K6 K7 K19 K22
Kollias Spyros I24
Kosenkov Dmitry G39
Kottlow Mara G31 K7
Kouch Yury I16
Krabbe Sabine G6
Kraftsik Rudolf F1
Krefeld Antonia G29
Kreis Roland I21 K8
Kremer Eloise A. D5
Kretz Robert G27 H3
Krzisch Marine A4
Kühn Lukas F2
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Labouesse Marie G37
Lalive Arnaud E3
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Saengsuwan Jittima   K16
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Saj Arnaud   I17
Sala Carlo   J15 J16
Sambataro Fabio   I9
Sander David   I11
Sandi Carmen   G26
Santello Mirko   J7
Savic Branislav   G43
Savidan Julie   G2 J17
Scharnowski Frank   I16
Schiller Bastian   G4
Schindler Kaspar   K15 K17
Schläpfer Anthony   G31
Schlee Winfried   G13
Schmidlin Eric   G2 J17
Schmitt Bernhard   K12
Schneider Maude   K11
Schneider Gasser Edith Marianne   G39
Schoeberlein Andreina   B2 J10
Schrick Christina   G38
Schroth Gerhard   A7 G41 K27
Schubert Vanessa   H10
Schulz Jan M.   D4
Schumacher Rahel   K2 K3 K23
Schuster-Amft Corina   K16
Schwab Martin E.   J8
Schwab Simon   K22
Schwallner Beat   J12
Schwartz Sophie   I19
Schweizer Claude   F2
Schwerdel Cornelia   C7
Scotti Alessandra Luisa   G27
Seeck Margitta   I15
Seifritz Erich   G20 I9 I24
Seiler Stefanie   A5 C4 J14
Senn Verena   D6
Senn Walter   D1 G25
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