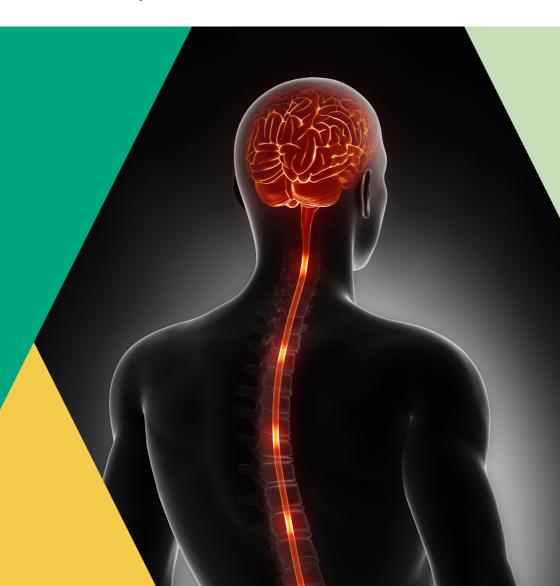


# Central Neuropathic Pain: From Mechanisms To Treatment

Thursday, 31st March 2022, 13.15-17.45 Uhr



# Supported by







# Dear Ladies and Gentlemen, dear Colleagues,

It is our pleasure to invite you to a virtual symposium on central neuropathic pain. The event will take place in a virtual format on Thursday, 31st March 2022.

Neuropathic pain is a frequent and debilitating sequela accompanying a number of primary neurological diseases. As clinicians and scientists we are regularly facing a number of clinically relevant challenges due to a gap in our pathophysiological understanding of neuropathic pain. This not only makes a confident diagnosis difficult, but also affects the development of an effective treatment plan. Central neuropathic pain following stroke and spinal cord injury is therefore one of the research foci of the recently founded Stroke Research Center at the Department of Neurology in Bern.

With this symposium, we would like to provide a comprehensive overview of the topic ranging from neurophysiology of nociceptive processing to clinical diagnosis and state-of-the-art therapeutic approaches. Special emphasis will be placed on novel neurophysiological techniques and emerging concepts in neuromodulation of pain.

We are fortunate to have a renowned, international faculty participating in this symposium. We are also proud to bring together scientists and clinicians from various disciplines as part of this truly interdisciplinary symposium.

We hope we have already sparked your interest and would like to welcome you at the first Bernese Virtual International Symposium entitled «Central Neuropathic Pain: From Mechanisms To Treatment».

# Yours sincerely,

Prof. Dr. med. Claudio Bassetti Prof. Dr. med. Andrew Chan Prof. Dr. med. Marcel Arnold Prof. Dr. med. Adrian Guggisberg Dr. med. Jan Rosner

# **Scientific Program**

13.15	Introduction/Welcome
	Prof. Dr. med. Andrew Chan
	Dr. med. Jan Rosner
	From Bench to Bedside (Chair: Prof. Konrad Streitberger, MD)
13.30	Principles of Nociceptive Coding in the Anterior Cingulate Cortex Prof. Thomas Nevian, PhD
13.45	Central Neuropathic Pain Syndromes: Etiology and Diagnosis Jan Rosner, MD
14.00	Discussion
	Neurophysiology of «Pain Pathways» (Chair: Kathleen Seidel, MD)
14.15	Modality-specific Somatosensory Evoked Potentials
	Philipp Hüllemann, MD
14.30	Pain-autonomic Interaction:
	Insights from Experimental and Clinical Pain Models
	Paulina Scheuren, PhD & Michèle Hubli, PhD
14.45	Discussion
	Thalamic Networks in Pain Modulation (Chair: Jan Rosner, MD)
15.00	The Impact of Optically-induced Thalamic Lesions on Pain Sensitivity
45 45	Carolina Gutierrez Herrera, PhD
15.15	Deep Brain Stimulation for Post-Stroke Pain  Andreas Nowacki, MD
15.30	Discussion
15.45	Break

# State-of-the-art Pain Therapy (Chair: Prof. Adrian Guggisberg, MD)

- 16.00 Invasive and Non-invasive Cortical Stimulation for Post-Stroke Pain
  Prof. Garcia-Larrea. MD PhD
- **16.15** Pharmacotherapy for Neuropathic Pain Prof. Finnerup, MD PhD
- 16.30 Discussion

# «Big Data» in Pain Research (Chair: Prof. Tobias Nef, PhD)

- **16.45** Lessons Learned from the German Network on Neuropathic Pain Jan Vollert, PhD
- 17.00 Tracking Progression of Neuropathic Pain in Longitudinal Studies
  Prof. John Kramer, PhD
- 17.15 Discussion
- 17.30 Quiz and Prize Ceremony

Jan Rosner, MD & Paulina Scheuren, PhD

# General information



The symposium will take place exclusively virtually. To participate, please register at kommunikation.neurologie@insel.ch.

# **Credits**

SNG 4 Credits, SGKN 4 Credits, SSIPM 1 Credit, SPS 4 Credits, SGAIM (pending). You will receive a confirmation of participation.

# **Faculty**

#### Prof. Dr. med. Claudio L. A. Bassetti

Chairman and Head, Department of Neurology, Bern University Hospital, Inselspital, University of Bern, Bern, Switzerland Dean, Medical Faculty, University of Bern, Switzerland

#### Prof. Dr. med. Andrew Chan

Head, Medical Division Neuro, Bern University Hospital, Inselspital Vice-Chairman, Department of Neurology Head Universitäres Ambulantes Neurozentrum, Department of Neurology, Bern University Hospital, Inselspital, University of Bern, Bern, Switzerland

#### Prof. Dr. med. Marcel Arnold

Chairman, Stroke Center, Department of Neurology, Bern University Hospital, Inselspital, University of Bern, Bern, Switzerland

# Prof. Dr. med. Adrian Guggisberg

Head of the Division of Neurorehabilitation, Department of Neurology, Bern University Hospital, Inselspital, University of Bern, Bern, Switzerland

#### Dr. med. Jan Rosner

Junior Attending & Group Leader, Stroke Research Center, Department of Neurology, Bern University Hospital, Inselspital, University of Bern, Bern, Switzerland

# Prof. Nanna Brix Finnerup, MD PhD

Director, Danish Pain Research Center, Department of Clinical Medicine, Aarhus University, Denmark

# Prof. Luis Garcia-Larrea, MD PhD

Research Director, Central Integration of Pain (NeuroPain) Lab, Lyon Neuroscience Research Center and Neurological Hospital, INSERM, Université Claude Bernard, Bron, France

### PD Dr. Carolina Gutierrez Herrera

Principal Investigator, Center for Experimental Neurology (ZEN), Department of Neurology, Bern University Hospital, Inselspital, University of Bern, Bern, Switzerland

# PD Dr. med. Philipp Hüllemann

Medical Director and Chairman, Department of Neurology, MEDICLIN Klinikum Soltau, Germany & Principal Investigator, Department of Neurology, Division of Neurological Pain Research and Therapy, Department of Neurology, Christian-Albrechts-Universität Kiel, Kiel, Germany

# Prof. John Kramer, PhD

Principal Investigator, International Collaboration on Repair Discoveries, University of British Columbia, Vancouver, British Columbia, Canada

## Prof. Dr. Tobias Nef

Extraordinarius, ARTORG Center for Biomedical Engineering Research & Department of Neurology, University of Bern, Bern, Switzerland

# Prof. Dr. Thomas Nevian

Co-Director, Department of Physiology, University of Bern, Bern, Switzerland

## Dr. med. Andreas Nowacki

Attending, Department of Neurosurgery, Bern University Hospital, Inselspital, University of Bern, Bern, Switzerland

#### Dr. sc. ETH Paulina Simonne Scheuren

Postdoctoral Researcher, Spinal Cord Injury Center, Balgrist University Hospital, University of Zurich, Zurich, Switzerland

#### PD Dr. sc. ETH Michèle Hubli

Group Leader, Spinal Cord Injury Center, Balgrist University Hospital, University of Zurich, Zurich, Switzerland

#### PD Dr. med. Kathleen Seidel

Attending and Group Leader, Department of Neurosurgery, Bern University Hospital, Inselspital, University of Bern, Bern, Switzerland

# Prof. Dr. med. Konrad Streitberger

Head of Pain Center, Department of Anesthesiology and Pain Medicine, Bern University Hospital, Inselspital, University of Bern, Bern, Switzerland

#### Dr. Jan Vollert

Research Fellow, Pain Research, MSk Lab, Department of Surgery and Cancer, Faculty of Medicine, Department of Surgery & Cancer, Imperial College London, United Kingdom

Inselspital
Universitätsspital Bern
University Hospital for Neurology
CH-3010 Bern
+41 31 664 14 39
info@neuronews.ch
www.neurologie.insel.ch

Scientific Coordinator: Jan Rosner, MD jan.rosner@insel.ch

