

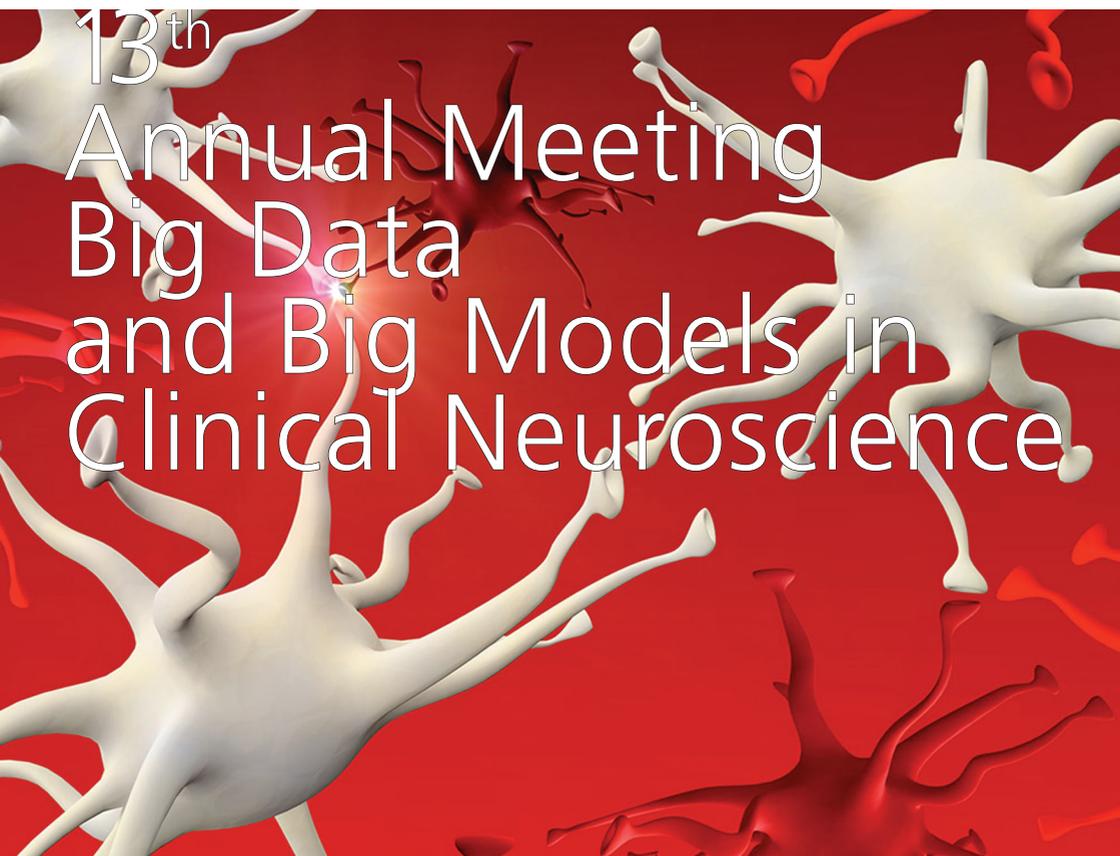
*u<sup>b</sup>*

---

<sup>b</sup>  
**UNIVERSITÄT  
BERN**

## Clinical Neuroscience Bern

Friday, 25<sup>th</sup> of May 2018, 9.00 – 17.45  
Inselspital, Auditorium Ettore Rossi, Kinderklinik  
Entrance 31b



13<sup>th</sup>  
Annual Meeting  
Big Data  
and Big Models in  
Clinical Neuroscience



# Dear Scientists

We are very pleased to invite you to the 13<sup>th</sup> annual meeting of the university network Clinical Neuroscience Bern (CNB). This year's meeting with the overall topic «Big Data and Big Models in Clinical Neuroscience» will take place on the 25<sup>th</sup> of May 2018 in the Auditorium Ettore Rossi (Inselspital).

CNB was founded by research groups of the Faculty of Human Sciences and the Faculty of Medicine in 2004 with the goal to foster neuroscientific research in Bern. In 2016 the Vetsuisse Faculty joined the network. Currently, 63 research groups of the three faculties are represented in the network. The research topics of the individual groups include basic research aiming to understand the function of individual neurons, analysis of functional systems but also clinical studies and the development of new technologies.

With the CNB annual meeting we aim to improve information exchanges and promote cooperation with internal and external partners. The congress provides young researchers with the opportunity to present their ideas and research achievements by talks (selected from submitted abstracts), during the poster session, or with a contribution in one of the different symposia. We kindly invite members and non-members to register and to submit abstracts. Scientists from other faculties and universities are also very welcome to attend.

We are pleased that the event will start with a welcome address by Prof. Tina Hascher, Dean of the Faculty of Human Sciences. The program will also include keynote lectures of Prof. Viktor Jirsa (Aix Marseille Université, France) and Prof. Bjoern Menze (Technische Universität München, Germany).

We hope that the program piques your interest and are very much looking forward to welcoming you at the CNB annual meeting 2018.

Prof. Dr. med. Claudio Bassetti, CNB Strategic Board

Prof. Dr. med. Sebastian Walther, CNB Executive Committee

Prof. Dr. med. Roland Wiest, CNB Executive Committee

Prof. Dr. Thomas König, CNB Executive Committee

# Program 13<sup>th</sup> Annual Meeting

## Clinical Neuroscience Bern

«Big Data and Big Models in Clinical Neuroscience»

Friday, 25<sup>th</sup> of May 2018, 9.00 – 17.45

Inselspital, Auditorium Ettore Rossi, Kinderklinik, Entrance 31b

08.00 – 09.00 **Registration and Poster Setup**

---

09.00 – 09.15 **Welcome addresses**

Tina Hascher, Dean Faculty of Human Sciences

Daniel Surbek, CNB Strategic Board

---

09.15 – 10.00 **Key-note 1**

*Modelling neurobiological processes to ameliorate prediction*

Viktor Jirsa, Aix Marseille Université, France

Chair: Thomas König

---

10.00 – 10.30 **Coffee break**

---

10.30 – 11.30 **Short talks, 4 selected abstracts à 10 minutes**

Chair: Sebastian Walther

---

11.30 – 12.15 **Key-note 2**

*Clinical applications of machine learning in neuroscience*

Bjoern Menze, Technische Universität München, Germany

Chair: Roland Wiest

---

12.15 – 13.45 **Poster Session + Lunch**

<p>13.45 – 14.45 <b>Parallel symposium I</b>  <i>Molecular Big Data in Clinical Neuroscience</i></p> <p>Chair: Gregor Hasler</p> <p>Auditorium Ettore Rossi</p>	<p><b>Parallel symposium II</b>  <i>Inflammatory processes and overlapping traits in neurological and psychiatric conditions</i></p> <p>Chair: Sebastian Walther, Andrew Chan</p> <p>Kursraum 1</p>
<p>14.45 – 15.15 <b>Coffee break</b></p>	
<p>15.15 – 16.15 <b>Parallel symposium III</b>  <i>Towards Big Data for Machine Learning in Neuroimaging</i></p> <p>Chair: Mauricio Reyes</p> <p>Auditorium Ettore Rossi</p>	<p><b>Parallel symposium IV</b>  <i>Storm Chasers – how to diagnose and treat refractory epilepsy</i></p> <p>Chair: Roland Wiest, Frédéric Zubler</p> <p>Kursraum 1</p>
<p>16.30 – 16.45 <b>Poster awards + closing remarks</b></p> <ul style="list-style-type: none"> <li>– Clinical research</li> <li>– Basic research animal</li> <li>– Basic research human</li> </ul> <p>Chair: Sebastian Walther</p>	
<p>16.45 – 17.45 <b>CNB Group leader's meeting</b>  on special invitation only</p> <p>Chair: Sebastian Walther</p>	
<p>17.45</p>	<p><b>End of Meeting</b></p>

# General information

## **CNB Executive Committee**

Tobias Nef, Sebastian Walther, Antoine Adamantidis, Urs Fischer, Thomas König, Beat Meier, Daniela Schweizer, Roland Wiest, Benoît Zuber

---

## **CNB Strategic Board**

Claudio Bassetti, Hans-Uwe Simon, Tina Hascher, Andreas Zurbriggen, Britta Engelhardt, Jan Gralla, Stephen Leib, Fred Mast, Thomas Nevian, Andreas Raabe, Werner Strik, Daniel Surbek, Stefan Weber

---

## **Poster Award Committee**

Daniela Hubl, Yosuke Morishima, Roland Wiest, Benoît Zuber

---

## **Contact**

Romina Theiler

Phone: +41 (0)31 632 55 94

E-mail: romina.theiler@insel.ch

---

## **Registration**

Please register on [www.conftool.com/cnbam2018](http://www.conftool.com/cnbam2018) **by April 22, 2018**.

The participation is free of costs.

---

## **Abstracts, posters and talks**

Language for abstracts, short talks, posters and symposia is English.

The executive committee will decide about acceptance.

Please submit your abstract (free contribution) on [www.conftool.com/cnbam2018](http://www.conftool.com/cnbam2018).

Deadline for abstract submission is **April 22, 2018**. Editing of submitted abstracts is possible until May 16, 2018.

When submitting an abstract please choose one of the three research categories which fits best your research topic: Clinical research, basic research animal or basic research human.

All free contributions will automatically be considered for poster presentation.

Among all submissions, four outstanding abstracts will further be selected as short talks. Authors will be notified in the beginning of May 2018.

Duration of talks: 10 min, and 5 min discussion.

The poster format is max A0 portrait (w84cm x h120cm).

A poster prize will be presented by Sebastian Walther. All participants presenting a poster are eligible for it.

Poster prizes

- Clinical research CHF 500.–
- Basic research animal CHF 500.–
- Basic research human CHF 500.–

---

## Credits/Education

Graduate School for Health Sciences / ECTS: Full day participation as first author of poster presentation or talk will be credited with 1 ECTS-Point for PhD students.

---

## Venue

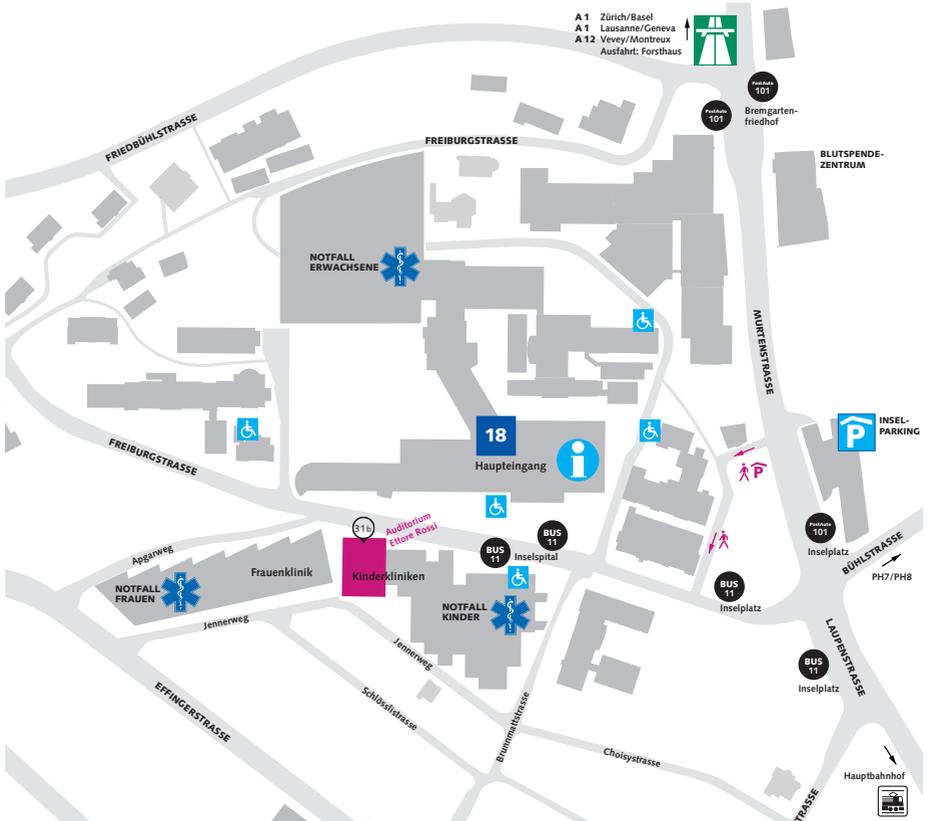
Inselspital, Auditorium Ettore Rossi, Kinderklinik, Entrance 31b

---

## Directions

By public transportation from Bern main station:

Bus No. 11, direction Inselspital-Holligen, station «Inselspital»



## Sponsors

---

We kindly thank our

Main-sponsors:



**u<sup>b</sup>**

<sup>b</sup>  
**UNIVERSITÄT  
BERN**

Faculty of Medicine

Co-sponsors:

**u<sup>b</sup>**

<sup>b</sup>  
**UNIVERSITÄT  
BERN**

Faculty of Human Sciences



University of Bern  
Clinical Neuroscience Bern  
c/o INSELSPITAL  
Department of Neurology  
Romina Theiler  
3010 Bern  
Phone: +41 (0)31 632 55 94  
E-mail: [romina.theiler@insel.ch](mailto:romina.theiler@insel.ch)  
[www.neuroscience.unibe.ch](http://www.neuroscience.unibe.ch)  
[www.conftool.com/cnbam2018](http://www.conftool.com/cnbam2018)