



JUNE 29TH - JULY 1ST  
**2022**

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CHUV, LAUSANNE  
INSTITUTION DE LAVIGNY, LAVIGNY

«**SPRINT**»

Symposium on Patient Rehabilitation,  
Innovation and NeuroTechnologies

INSTITUTION DE  
LAVIGNY  
  
*Agir pour la vie.*

**CHUV**

**29-06**  
**2022**

## **CHUV - AUDITOIRE CÉSAR ROUX - LAUSANNE**

**13h00**

### **Opening**

**Philippe Ryvlin** - University Hospital Lausanne, CHUV

**13h15 - 13h45**

### **Neurorehabilitation at the intersection of fundamental neuroscience, clinic and neurotechnology**

**Andrea Serino** - University Hospital Lausanne, CHUV

**13h45 - 14h15**

### **A novel platform to collect and analyze neurorehabilitation data along the continuum of care**

**Henning Muller & David-Zacharie Issom** - University of Applied Science and Art, Western-Switzerland, HES-SO Valais-Wallis

**14h15 - 14h45**

### **Neuroprosthesis to restore neurological functions**

**Jocelyne Bloch & Grégoire Courtine** - University Hospital Lausanne, CHUV and Swiss Federal Institute of Technology, EPFL

**14h45 - 15h15**

### **Creativity and brain lesion**

**René Müri** - University Hospital Bern, Inselspital

**15h15 - 15h45**

### **Coffee break**

**15h45 - 16h15**

### **Federated learning to leverage neurorehabilitation research**

**Philippe Ryvlin** - University Hospital Lausanne, CHUV

**16h15 - 16h45**

### **Can we enhance brain plasticity for upper limb motor recovery after stroke ?**

**Adrian Guggisberg** - University Hospital Bern, Inselspital

**16h45 - 17h30**

### **Brain repair after stroke**

**Steven C. Cramer** - California Rehabilitation Institute, University of Los Angeles, UCLA

**19h00**

### **Social dinner**



**30-06**  
**2022**

## **CHUV - AUDITORE CÉSAR ROUX - LAUSANNE**

**8h30 - 8h45**

### **Opening**

**Rebecca Ruiz** - State Councilor Head of the Department of Health and social action, Vaud

**8h45 - 9h30**

### **The future of rehabilitation. Where are we heading ?**

**Julie Bernhardt** - The Florey Institute of Neuroscience and Mental Health, Melbourne, Australia

**9h30 - 10h00**

### **Intraneural neuroprostheses to understand and restore sensory, motor, and autonomic neural functions**

**Silvestro Micera**, Swiss Federal Institute of Technology, EPFL and Scuola Superiore Sant'Anna, Italy

**10h - 10h45**

### **Young Researchers Session**

**10h45 - 11h15**

### **Coffee break**

**11h15 - 11h45**

### **Care pathways and neuro-behavioral outcome after severe traumatic brain injury**

**Philippe Azouvi** - Raymond Poincaré Hospital AP-HP, Garches, France

**11h45 - 12h15**

### **The advent of precision neurorehabilitation**

**Arseny Sokolov** - University Hospital Lausanne, CHUV

**12h15 - 13h45**

### **Lunch**

**13h45 - 14h30**

### **Dysconnections, synaptopathy and the Bayesian brain**

**Karl Friston** - University College London, UK

**14h30 - 15h00**

### **Stroke, a network disorder - Opportunities provided by connectomics**

**Friedhelm Hummel** - Swiss Federal Institute of Technology, EPFL

**15h00 - 15h30**

### **Coffee break**

## **Symposium – Cognitive Neuroscience and Neurorehabilitation in honour of Stephanie Clarke**

**15h30 - 16h00**

### **The anatomy of neural networks**

**Katrin Amunts** - Institute of Neuroscience and Medicine, Jülich, Germany

**16h00 - 16h30**

### **Understanding auditory perception in order to rehabilitate it**

**Timothy D. Griffiths** - Newcastle University and Wellcome Trust Center for Human Neuroimaging, University College London, UK

**16h30 - 17h00**

### **Interaction of cognitive and motor rehabilitation**

**Gilles Rode** - University Hospital Lyon, France

**17h15 - 19h00**

### **Plasticité neuronale - reine et servante de la neuroréhabilitation**

#### **Leçon d'adieu - Stephanie Clarke**

University Hospital Lausanne, CHUV

*Free entrance / connect online at :*

*[https://chuv.webex.com/chuv-en/j.](https://chuv.webex.com/chuv-en/j.php?MTID=m84659f9f14ef1294eb17b68d5816000f)*

*[php?MTID=m84659f9f14ef1294eb17b68d5816000f](https://chuv.webex.com/chuv-en/j.php?MTID=m84659f9f14ef1294eb17b68d5816000f)*



**01-07**  
**2022**

## **INSTITUTION DE LAVIGNY - LAVIGNY**

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**9h00 - 9h15**

### **Opening**

**Thierry Siegrist** - General director,  
Institution de Lavigny

**9h15 - 9h45**

### **Healthcare practice in neurorehabilitation**

**Thomas Platz** - University of Greifswald, Germany

**9h45 - 10h00**

### **Measuring functional outcomes from the clinics to home**

**Tobias Nef** - University Hospital Bern, Inselspital

**10h00 - 10h15**

### **Digital therapeutics for cognition**

**Sonia Crottaz-Herbette** - University Hospital Lausanne,  
CHUV

**10h15 - 10h30**

### **Robotics in neurorehabilitation**

**Olivier Lambercy** - Swiss Federal Institute of  
Technology, EPFZ

**10h30 - 11h00**

### **Coffee break**

**11h00 - 12h30**

### **Workshops** (first turn)

**12h30 - 14h00**

### **Lunch**

**14h00 - 15h00**

### **Round table - Innovation in neurorehabilitation challenges and opportunities**

**Thomas Platz, Franco Molteni, Arseny Sokolov,**  
**Claude Repond and Tiffany Corbet** with representatives  
of patients associations, Industries and Public Health

**15h00 - 15h30**

### **Coffee break**

**15h30 - 17h00**

### **Workshops** (second turn)

**17h00 - 18h00**

### **Closing, visit of Lavigny rehabilitation center and aperitif**

**TO  
CHOOSE**

## **WORKSHOPS DESCRIPTIONS**

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### **Workshop 1 : ROBOTICS IN NEUROREHABILITATION (FR/ENG)**

By Tiffany Corbet, Institution de Lavigny and Olivier Lambercy, ETHZ

### **Workshop 2 : MOVEMENT QUANTIFICATION (ENG)**

By Cristina Becchio, Italian Institute of Technology and University Medical Center Hamburg-Eppendorf - Julien Favre, CHUV - Eleonora Guanziroli, Villa Beretta Hospital, Italy - Michela Bassolino, HES-SO Valais - Wallis and Gilles Allali, CHUV

### **Workshop 3 : DIGITAL THERAPEUTICS (FR/ENG)**

By Sonia Crottaz-Herbette, CHUV - Giampaolo Bricchetto, Italian Multiple Sclerosis Foundation (FISM) - Naveed Ejaz, MindMaze SA and Arseny Sokolov, CHUV

### **Workshop 4 : CLINICAL ITINERARIES (ENG)**

By Thomas Platz, University of Greifswald, Germany - Franco Molteni, Villa Beretta Hospital, Italy - Stefano Carda, CHUV - Roman Gonzenbach - Jens Bansi, Valens Clinic and Pierre-André Rapin, Institution de Lavigny

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## **GENERAL INFORMATION**

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### Location

- Conferences 29-30th June 2022: at CHUV
- Conferences 1st July 2022: at Institution de Lavigny

Limited seats. Register now at :

<https://www.xing-events.com/Congress-Sprint>

### Registration fees

Full program, CHF 300.-

29-30th June, CHF 200.- (lunch included)

Students/Interns (Residents, Master, PhD): CHF 100.- X 2 days at CHUV max 100 pers.

1st July, CHF 150.- (lunch included)

Social dinner, CHF 100.- (limited places available)



## Languages

English / French (according to program)



SPRINT is endorsed by the World Federation For Neurorehabilitation (WFNR) and will be accessible on line for WNFR members

## Recognition - Credits granted

Physioswiss

**29.06 - 30.06 - 01.07** : 19 cts

Swiss Society for Physical Medicine and Rehabilitation

**29.06** : 4 cts / **30.06 am** : 3 cts - **pm** : 4 cts / **01.07 am** : 3 cts - **pm** : 2 cts

Swiss Association of Neuropsychologists

**29.06 - 30.06 - 01.07** : 17 cts

Swiss Neurological Society

**29.06** : 4 cts / **30.06 am** : 8 cts / **01.07 am** : 8 cts

## Institution de Lavigny access



Bus n° 726 from the Morges station square, stop Lavigny hospital



Parking available at l'Institution de Lavigny  
Route du Vignoble 60, 1175 Lavigny

## Informations

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