

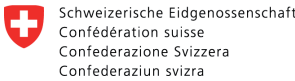


NEUREX WORKSHOP

FEBRUARY
3RD- 4TH, 2023
FREIBURG I. BR.

VENUE
HOTEL STADT FREIBURG
BREISACHER STRASSE,
FREIBURG I. BR.

ORGANIZERS
CORNELIUS WEILLER,
MARIACHRISTINA MUSSO
& ANDREA DRESSING
(DEP. OF NEUROLOGY AND
CLINICAL NEUROSCIENCE,
UNIVERSITY MEDICAL CENTER FREIBURG)



— PROJECT INTERNEURON —
Program Interreg V Upper Rhine «Transcending borders with every project», Neurex, Institut du médicament de Strasbourg, BioValley France, CNRS, Université de Strasbourg, Région Grand Est, Collectivité européenne d'Alsace, Eurométropole Strasbourg, Hôpitaux Universitaires de Strasbourg, Bernstein Center Freiburg, Klinik für Psychiatrie und Psychotherapie Freiburg, Neurozentrum Freiburg, Universität Freiburg, Universität Basel, Universitäre Psychiatrische Kliniken Basel, Kanton Aargau, Kanton Basel-Landschaft, Confédération suisse.



NETWORK. BEHAVIOUR. RECOVERY – UNDERSTANDING CHANGES IN CONNECTIVITY AFTER STROKE

Friday, February 03rd, 2023

08.00 — 08.10 Registration
08.10 — 08.30 Opening remarks: Prof. Hein (Dean of the Faculty) & Prof. Weiller

SESSION 1 / DETERMINING STRUCTURAL CONNECTIVITY IN STROKE PATIENTS

08.30 — 08.55 Marco Catani — (London, United Kingdom)
"TBA"
08.55 — 09.20 Michel Thiebaut de Schotten — (Bordeaux, France)
"Disconnectome mapping - The BCBtoolkit"
09.20 — 09.45 Aaron Boes — (Iowa City, USA)
"Using lesion location and lesion-associated networks to predict post-stroke deficits – methodological challenges"
09.45 — 10.15 NN — (XX, XX) — Discussion
10.15 — 10.45 COFFEE BREAK
10.45 — 10.55 Max Wawryziak — (Leipzig, Germany)
"Disconnectome mapping – validating the methodolocial approach"
10.55 — 11.05 Orionas-Vasilis Saprikis — (Freiburg, Germany)
"Tract mask-based lesion mapping"
11.05 — 11.15 Marco Reisert — (Freiburg, Germany)
"Streamline-based lesion-symptom mapping – a global tractography approach (NORA toolbox)"
11.15 — 11.45 Chris Rorden — (Columbia, USA)
"Measuring structural and functional connectivity longitudinally"
11.45 — 12.30 Hans-Otto Karnath — (Tübingen, Germany) — Discussion
12.30 — 13.30 LUNCH

SESSION 2 / DETERMINING FUNCTIONAL CONNECTIVITY IN STROKE PATIENTS

13.30 — 13.55 Claus Hilgetag — (Hamburg, Germany)
"Inferring causal functional contributions and interactions from stroke lesions"
13.55 — 14.20 Pierre LeVan — (Calgary, Canada)
"How to quantify functional connectivity when it fluctuates so much?"
14.20 — 14.40 Susan Duncan — (Louisanne, USA)
"Interindividual changes in functional connectivity"
14.40 — 15.10 Michael Fox (virtual) — (Boston, USA)
"Lesion network mapping"
15.10 — 15.30 L. Pini — (Padua, Italy)
"A principal component functional dysconnectivity approach in stroke"
15.30 — 16.00 Steven Small & Ana Solodkin — (Dallas, USA) — Discussion

SESSION 3 / METHODS AND PERSPECTIVE

16.30 — 16.50 Simon Eickhoff — (Jülich, Germany)
"Neuroimaging based precision medicine: Promises, pitfalls and a challenging road ahead"
16.50 — 17.10 Andreas Horn (virtual) — (Boston, USA)
"Using causal sources of Information to map the human connectome"
17.10 — 17.20 Michael Tangermann — (Nijmegen, Netherlands)
"Brain computer interfaces: a novel closed-loop possible approach for stroke recovery "
17.20 — 17.40 Stefanie J Forkel — (Nijmegen, Netherlands)
"Emergent properties of the connected brain"
17.40 — 17.50 Cornelius Weiller — (Freiburg, Germany)
"Anatomically defined interaction hubs in the brain"
17.50 — 18.20 Matt Lambon Ralph — (Cambridge, United Kingdom)
"Big Data - the future of neuroimaging research?"
18.20 — 18.50 NN — (XX, XX) — Discussion

Saturday, February 04th, 2023

SESSION 4 / STRUCTURAL AND FUNCTIONAL CONNECTIVITY AS A MEASURE OF POST STROKE DEFICITS

08.30 — 08.50 Argye Hillis — (Baltimore, USA)
"Disruptions of the human connectome resulting in hemispatial neglect after right hemisphere stroke"
08.50 — 09.10 Janina Wिल्mskoetter — (Charleston, USA)
"Measures of structural brain connectivity in post-stroke aphasia and dysphagia"
09.10 — 09.30 Friedhelm Hummel — (Geneve, Switzerland)
"Structural connectomes in post-stroke motor deficits"
09.30 — 09.40 Bastian Cheng — (Hamburg, Germany)
"Connectomics in cerebral small vessel disease - results from the Hamburg City Health Study"
09.40 — 09.50 Anika Stockert — (Leipzig, Germany)
"Lesion network mapping in thalamic aphasia"
09.50 — 10.00 Andrea Dressing — (Freiburg, Germany)
"Using streamline-based lesion-symptom mapping to determine multi-domain post stroke deficits"
10.00 — 10.30 Dorothee Saur — (Leipzig, Germany) & Klaus Willmes — (Aachen, Germany) — Discussion
10.30 — 11.00 COFFEE BREAK

SESSION 5 / CONNECTIVITY AND STROKE RETCOVERY

11.00 — 11.25 Maurizio Corbetta — (Padua, Italy)
"TBA"
11.25 — 11.55 Christian Grefkes — (Cologne, Germany)
"Resting state connectivity as marker for stroke recovery"
11.55 — 12.20 Götz Thomalla — (Hamburg, Germany)
"Preserved structural connectivity as mediator of the clinical effect of thrombolysis for acute stroke"
12.20 — 12.30 Mariachristina Musso — (Freiburg, Germany)
"Brain computer interfaces as a possible novel approach to modify network connectivity after stroke"
12.30 — 12.55 Leonardo Bonilha — (Atlanta, USA)
"White matter networks and machine learning"
12.55 — 13.30 Cathy Price — (London, UK) — Discussion
13.30 — 13.45 Closing remarks
13.45 LUNCH

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