



European Low-Grade Glioma Network Meeting

Bern, Switzerland, April 3-5, 2025

 **INSELSPITAL**

UNIVERSITÄTSSPITAL BERN
HÔPITAL UNIVERSITAIRE DE BERNE

Universitätsklinik für
Neurochirurgie

Dear colleagues and friends of the ELGGN

We are grateful to host you all here in Bern for the European Low-Grade Glioma Network Meeting. We welcome you to this exciting conference and wish you an enriching scientific exchange.

The organizers

Kathleen Seidel, Philippe Schucht and Andreas Raabe



Main sponsors



Sponsors



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Program Overview

Thursday April 3, 2025

09:00–13:00 **Workshops: Theoretical part and lectures**

14:00–18:30 **Scientific program: Language and cognitive networks**
Abstract presentations
Keynote speakers: Hugues Duffau and Emmanuel Mandonnet

Friday April 4, 2025

08:30–12:30 **Scientific program: Intraoperative neurophysiology, brain mapping and cortico-cortical evoked potentials**
Abstract presentations
Keynote speakers: Riki Matsumoto, Francesco Sala and Lorenzo Bello

13:30–18:00 **Scientific program: Neuro-oncology and new treatment opportunities**
Abstract presentations
Keynote speakers: Monika Hegi and Andreas Hottinger

18:30 Guided city tour

20:00 Social dinner at Restaurant Schwellenmätteli

Saturday April 5, 2025

08:30–15:30 **Workshops: Hands-on parallel workshops**

Venue

The **Workshops** on Thursday morning and Saturday will be held at **sitem-insel** (*Freiburgstrasse 3, 3010 Bern*)

The **Scientific Program** on Thursday afternoon and Friday will take place at the **Langhans Hörsaal** (*Institute of Tissue Medicine and Pathology, Rosenbühlgasse 22, 3010 Bern*)



Arrival:

- Car: Take the A1 highway exit “**Bern Forsthaus**” and follow the **Inselspital** signs to the **Insel-Parking** at **Murtenstrasse 12, 3008 Bern** (see above map)
- Public transport: Take the train to “**Bern Hauptbahnhof**” and then either the bus no. 12, 100 or 101 to “**Inselplatz**” or “**Inselspital**” (see above map).

Guided city tour

After the scientific program on Friday, April 4 at 18:30, we will gather in front of the Langhans Hörsaal (see above map) and be guided through the **city of Bern** to the social dinner place. Join us for a beautiful tour with historic and artistic facts through this medieval city.

Note that the city tour is not part of the scientific program and not funded by the sponsors. Participants of the ELGGM Meeting are free to join and may donate to the voluntary guides at the end, if they wish to do so.

Social dinner

The social dinner will take place on Friday, April 4 at 20:00 at the **Restaurant Schwellenmätteli** (25 EUR to pay on site in cash before Friday 17:00).
Address: *Dalmaziquali 11, 3005 Bern*

Thursday April 3, 2025

Workshops: Theoretical Part and Lectures

| | |
|-------------|---|
| 09:00–09:30 | Registration |
| 09:30–10.15 | Servier: Management of Low-Grade Gliomas in the Era of IDH Inhibitors <i>Speakers: Andreas Hottinger, Giulia Cossu</i> |
| 10:15–11:00 | Brainlab-Langer: From fibertracking to IONM - surgeon directed approaches in clinical practice: case presentations <i>Speakers: Ralph König, Ramona Schuler</i> |
| 11:00–11:30 | <i>Break</i> |
| 11:30–12:15 | Nexstim: nTMS - basics, functional pre-operative mapping, post-surgical paresis therapy and cortical plasticity <i>Speakers: Sebastian Ille, Sam Ng</i> |
| 12:15–13:00 | Inomed: Latest technology for functional mapping <i>Speakers: Mariusz Gruchala, Nina Sitt, Moritz Billian, Celine Wegner</i> |

Scientific Program - Thursday Afternoon

Abstracts: 7 min oral presentation, 3 min discussion

| Start | Finish | Title | Speaker | Authors | Affiliation |
|---|--------|--|-----------------------|--|--|
| Language and cognitive networks Session moderators: Schucht/Vergani | | | | | |
| 14:10 | 14:20 | Welcome | Seidel/Schucht/Raabe | | |
| 14:20 | 14:30 | How to preserve language and cognitive networks after low-grade glioma surgery? | Hugues Duffau | | Montpellier University Medical Center |
| 14:30 | 14:40 | | | | |
| 14:40 | 14:50 | Discussion | | | |
| 14:50 | 15:00 | Validation of the digital diagnostic Instrument for mild aphasia in patients with low-grade gliomas: preliminary results | Michelle van Steijn | Michelle van Steijn, Elke De Witte, Joost Schouten, Eelke Bos, Marike Donders-Kamphuis, Arnaud Vincent, Djaina Satoer | Erasmus University Medical Center Rotterdam |
| 15:00 | 15:10 | nTMS language mapping with sentence completion (SC) in glioma patients: What is the optimal picture-to-trigger-interval (PTI)? – A pilot study | Johanna Scholtz | J. Scholtz, S. Weiss, H.M. Müller, T.F. Ersoy, M. Simon | University Hospital OWL, Campus Bielefeld-Bethel |
| 15:10 | 15:20 | Identification of extensive bihemispheric language networks by preoperative nTMS-based mapping using a verbal semantic association task | Maximilian Schwendner | Maximilian Schwendner, Leonie Kram, Haosu Zhang, Sandro M. Krieg, Sebastian Ille | Heidelberg University Hospital, Ruprecht-Karls-University Heidelberg |
| 15:20 | 15:30 | Proposal of a metric displacement for language function: the brain plasticity Index based on nTMS data | Camilla Bonaudo | Camilla Bonaudo, Edoardo Pieropan, Charly Caredda, Bruno Montcel, Luca Giannoni, Francesca Fedi, Elisa Castaldi, Fabrizio Baldanzi, Simone Troiano, Antonio Maiorelli, Matteo Elias Schapira, Agnese Pedone, Tommaso Casseri, Andrea Bianchi, Enrico Fainardi, Antonello Grippo, Francesco Saverio Pavone and Alessandro Della Puppa | University Hospital of Careggi, Florence |
| 15:30 | 15:40 | Awake craniotomy for diffuse glioma in multilingual patients: language outcomes in a match cohort study | Mariam Awan | Mariam Awan, Imran Ghani, Christos Soumpasis, Ali Elhag, Sabina Patel, Hilary Wren, Ana Mirallave-Pescador, Richard Gullan, Keyoumars Ashkan, Francesco Vergani, Ranjeev Bhangoo and José Pedro Lavrador | King's College Hospital NHS Foundation Trust |
| 15:40 | 15:50 | A role for the inferior fronto-occipital fasciculus underlying multimodal semantic control: a SEEG-white matter stimulation study | Davide Giampiccolo | Davide Giampiccolo, Ningfei Li, Alejandro Granados, Lawrence P. Binding, Elizabeth Jefferies, Rebecca Jackson, Aidan O'Keeffe, Vladimir Litvak, Umesh Vivekananda, Neil Burgess, Joana Oliveira, Andrew W. McEvoy, John S. Duncan, Beate Diehl, Anna Miserocchi, Fahmida Chowdhury | University College London |
| 15:50 | 16:00 | BREAK | | | |
| 16:00 | 16:10 | BREAK | | | |
| 16:10 | 16:20 | BREAK | | | |

| Start | Finish | Title | Speaker | Authors | Affiliation |
|-------|--------|---|---------------------------------------|---|---|
| 16:20 | 16:30 | State of the art and future challenges in the intra- and extra-operative assessment of cognitive functions | Emmanuel Mandonnet | | Lariboisière Hospital, Université Paris 7 Diderot |
| 16:30 | 16:40 | | | | |
| 16:40 | 16:50 | Discussion | | | |
| 16:50 | 17:00 | Safety and functional outcomes of corpus callosum resection in lower-grade glioma surgery | Marco Rossi | M Rossi, G Puglisi, L Viganò, L Gay, T Sciortino, M Conti Nibali, A Gallotti, A Leonetti, L Bello | Università degli Studi di Milano |
| 17:00 | 17:10 | Short- and longterm impact of frontal aslant tract lesions on neurocognition | Carolin Weiss Lucas, Alexandre Campos | R. Loução, K. Ferner, K. Rodrian, S. Kochs, M. Becker, C. Nettekoven, D. Wiewrodt, M. Loehr, C. Jungk, M. Kocher, J. Hampl, M. Timmer, A. R. Campos, R. Goldbrunner, the NOA19-Study Group, C. Weiss Lucas | University Hospital Cologne; University Hospital ULS Santa Maria, Lisbon |
| 17:10 | 17:20 | Application of navigated transcranial magnetic stimulation (nTMS) to study the visual-spatial network and prevent neglect in brain tumour surgery | Camilla Bonaudo | Camilla Bonaudo, Elisa Castaldi, Agnese Pedone, Federico Capelli, Shani Enderage Don, Edoardo Pieropan, Andrea Bianchi, Marika Gobbo, Giuseppe Maduli, Francesca Fedi, Fabrizio Baldanzi, Simone Troiano, Antonio Maiorelli, Giovanni Muscas, Francesca Battista, Luca Campagnaro, Serena De Pellegrin, Andrea Amadori, Enrico Fainardi, Riccardo Carrai, Antonello Grippo and Alessandro Della Puppa | University Hospital of Careggi, Florence |
| 17:20 | 17:30 | Convergent causal mapping of frontal networks for visuospatial selective attention | Guglielmo Puglisi | Guglielmo Puglisi, Luca Viganó, Antonella Leonetti, Marco Rossi, Tommaso Sciortino, Marco Conti Nibali, Lorenzo Gabriel Gay, Luca Fornia, Gabriella Cerri, Lorenzo Bello | University of Milan |
| 17:30 | 17:40 | The digital TMT: how to draw reliable conclusions from single item stimulation during cognitive monitoring | Martine van Zandvoort | Martine JE van Zandvoort, Fleur van Ierschoot, Pierre Robe, Teuni ten Brink | University Medical Center Utrecht |
| 17:40 | 17:50 | Multi-task approach for localizing linguistic and cognitive cortical network components during preoperative stimulation mapping in glioma patients with and without global cognitive deficits | Leonie Kram | Leonie Kram, Maximilian Schwendner, Haosu Zhang, Sandro M. Krieg, Sebastian Ille | Heidelberg University Hospital, Ruprecht-Karls-University Heidelberg |
| 17:50 | 18:00 | Multivariate mapping of low-resilient neurocognitive systems within and around low-grade gliomas | Sam Ng | Sam Ng, Sylvie Moritz-Gasser, Anne-Laure Lemaitre, Hugues Duffau, Guillaume Herbet | Montpellier University Medical Center, |
| 18:00 | 18:10 | Process-based approach to neuropsychological evaluation in patients with low grade gliomas | Melissa-Ann Mackie | Melissa-Ann Mackie, Matthew Tate, Karan Dixit, Jessica Templer | Northwestern University Feinberg School of Medicine, Evanston, Illinois |
| 18:10 | 18:20 | Standardized monitoring of executive functions during awake glioma surgery | Maud Landers | M.J.F. Landers, H.B. Brouwers, A.M. Weggelaar, W. De Baene, T. Meijerink, M. Wilbers, P.A. Robe, M.J.E. van Zandvoort, E.M. Bos, D. Satoer, A.P.J.E. Vincent, E.O. Vik-Mo, A.A. Mughal, G. Minken, I. Poisson, M. Barberis, E. Mandonnet, G.J.M. Rutten | Elisabeth-TweeSteden Ziekenhuis Tilburg & Erasmus Medisch Centrum Rotterdam |

Friday April 4, 2025

Scientific Program - Friday

Abstracts: 7 min oral presentation, 3 min discussion

| Start | Finish | Title | Speaker | Authors | Affiliation |
|---|--------|---|--------------------|---|---|
| <u>Intraoperative neurophysiology and cortico-cortical evoked potentials</u> | | | | | |
| Session moderators: Seidel/Szelenyi | | | | | |
| 08:30 | 08:40 | The role of cortico-cortical evoked potentials (CCEPs) for glioma surgery | Riki Matsumoto | | Kyoto University |
| 08:40 | 08:50 | | | | |
| 08:50 | 09:00 | Discussion | | | |
| 09:00 | 09:10 | Application of CCEP in lobectomy for epileptic temporal LGG patients: a novel approach for asleep surgery for seizures | Francesca Battista | Francesca Battista, Riccardo Carrai, Alberto Parenti, Eleonora Visocchi, Camilla Bonaudo, Giovanni Muscas, Antonello Grippo, Alessandro Della Puppa | University of Florence, Careggi University Hospital |
| 09:10 | 09:20 | Cortico-cortical evoked potentials of language tracts in minimally invasive glioma surgery guided by Penfield stimulation | Pablo Alvarez Abut | Pablo Alvarez Abut, Kathleen Seidel, Jonathan Wermelinger, Vedran Deletis, Andreas Raabe, David Zhang, Philippe Schucht | Inselspital, Bern University Hospital |
| 09:20 | 09:30 | Towards multimodal intraoperative functional mapping using simultaneous functional ultrasound imaging (fUSi) and electrocorticography (ECoG) recordings during low grade glioma (LGG) tumor resection | Emma Gommers | E.C. Gommers, M. Verboom, L. Wei, J. Voorneveld, Y. Han, D. Satoer, A.J.P.E. Vincent, R. van den Berg, P. Kruizinga | Erasmus University Medical Centre, Rotterdam |
| 09:30 | 09:40 | Towards full monopolar and bipolar cortical and subcortical stimulation-mapping - Full mono/ bipolar subcortical stimulation-mapping | Henry Colle | Henry Colle, Peter Muller, David Colle, Bonny Noens, Kristel Vanchaze, Tybault Hollanders, Erik Robert, Annelies Aerts, Zus Dewitte | St Lucas General Hospital, Gent |
| 09:40 | 09:50 | Investigating parieto-motor, frontal-motor and cerebello-motor connectivity in glioma surgery under general anesthesia | Francesco Sala | | University of Verona |
| 09:50 | 10:00 | | | | |
| 10:00 | 10:10 | Discussion | | | |
| 10:10 | 10:20 | BREAK | | | |
| 10:20 | 10:30 | BREAK | | | |
| 10:30 | 10:40 | BREAK | | | |
| 10:40 | 10:50 | Awake and asleep mapping during surgery of M1 and pre-motor areas | Lorenzo Bello | | University of Milan |
| 10:50 | 11:00 | | | | |
| 11:00 | 11:10 | Discussion | | | |

| Start | Finish | Title | Speaker | Authors | Affiliation |
|-------|--------|--|--------------------------|--|--|
| 11:10 | 11:20 | Motor evoked potential monitoring and continuous dynamic mapping: warning criteria during surgery on 60 low-grade gliomas | Jonathan Wermelinger | Jonathan Wermelinger, Kathleen Seidel, Noah Wagner, Pablo Alvarez Abut, Mattia Branca, Sivani Sivanrupan, Philippe Schucht and Andreas Raabe | Inselspital, Bern University Hospital |
| 11:20 | 11:30 | Mapping strategies for resection of lesions within the primary motor cortex | Alberto Gallotti | Alberto L Gallotti, Marco Conti Nibali, Marco Rossi, Tommaso Sciortino, Lorenzo G Gay, Guglielmo Puglisi, Antonella Leonetti, Marta Lamperti, Vincenzo Callipo and Lorenzo Bello | University of Milan |
| 11:30 | 11:40 | Tractography under the microscope: A diagnostic test accuracy systematic review and meta-analysis of intraoperative tractography | Johannes Reilly | Johannes H. Reilly, Mitra L. Neymeyer, Meghan R. Forrest, Stephen Schüürhuis, Peter Vajkoczy, Julia Onken, Thomas Picht | Charité - Universitätsmedizin Berlin |
| 11:40 | 11:50 | Advancing preoperative assessment of the motor system through nTMS-based mapping of the supplementary motor area in patients with frontal brain tumors | Maximilian Schwendner | Maximilian Schwendner, Haosu Zhang, Leonie Kram, Sandro M. Krieg, Sebastian Ille | Heidelberg University Hospital, Ruprecht-Karls-University Heidelberg |
| 11:50 | 12:00 | Verbal fluency in patients with gliomas of the supplementary motor Area | Antonina Gottman-Narožna | Antonina Gottman-Narožna, Weronika Rejner, Agnieszka Olejnik, Aleksandra Bala, Kacper Koczyk, Tomasz Dziedzic, Przemysław Kunert | Medical University of Warsaw |
| 12:00 | 12:10 | rTMS-based neuromodulation for treatment of postoperative aphasia after tumor resection – a pilot study | Mitra Lara Neymeyer | Mitra L. Neymeyer, Lena Rybka, Nikki Hoekzema, Heike Schneider, Melina Engelhardt, Rosario Tomasello, Peter Vajkoczy, Adrià Rofes, Thomas Picht, Tizian Rosenstock | Charité - Universitätsmedizin Berlin |
| 12:10 | 12:20 | Overcoming barriers in neurosurgical education: introducing a simulator for insular glioma resection with fluorescence imaging (SIGMA) | Sifian Al-Hamid | Sifian Al-Hamid, Amir Amini, Vanessa M. Swiatek, Firat Taskaya, Julius Reiser, Klaus-Peter Stein, Ali Rashidi, I. Erol Sandalcioglu, Belal Neyazi | Otto-von-Guericke Universitätsklinikum Magdeburg |
| 12:20 | 12:30 | BREAK | | | |
| 12:30 | 12:40 | BREAK | | | |
| 12:40 | 12:50 | BREAK | | | |
| 12:50 | 13:00 | BREAK | | | |
| 13:00 | 13:10 | BREAK | | | |
| 13:10 | 13:20 | BREAK | | | |

| Start | Finish | Title | Speaker | Authors | Affiliation |
|--|--------|--|-----------------------|--|--|
| <u>Neuro-oncology, advanced imaging and new treatment opportunities</u> Session moderators: Raabe/Gil-Robles | | | | | |
| 13:20 | 13:30 | New molecular targets and predictive factors for response to therapy in low grade glioma patients | Monika Hegi | | University of Lausanne |
| 13:30 | 13:40 | | | | |
| 13:40 | 13:50 | Discussion | | | |
| 13:50 | 14:00 | Towards in-vivo tissue classification during neurosurgery from wide field Mueller Polarimetric imaging - part 1 | Omar Rodríguez-Núñez | HORAO | Inselspital University Hospital Bern |
| 14:00 | 14:10 | Towards in-vivo tissue classification during neurosurgery from wide field Mueller Polarimetric imaging - part 2 | Richard McKinley | HORAO | Inselspital University Hospital Bern |
| 14:10 | 14:20 | Our 2HG project with 7 Tesla MRI | Slotboom / Guodong | | Inselspital University Hospital Bern |
| 14:20 | 14:30 | A proof-of-concept multicenter study: an automated, patient-specific tractography pipeline for subcortical tract visualization in patients with glioma | Mégan van de Veerdonk | MMGH van de Veerdonk, R Bakker, MJF Landers, EM Bos, E Mandonnet, K Rosengarth, AA Mughal, EO Vik-Mo, M Smits, HB Brouwers, GJM Rutten | Erasmus University Medical Center, Rotterdam |
| 14:30 | 14:40 | Prediction of aphasia in language-eloquent glioma patients using preoperative MRI-based radiomics | Paul Psyk | Paul Psyk, Lena Rybka, Peter Vajkoczy, Thomas Picht, Boshra Shams | Charité - Universitätsmedizin Berlin |
| 14:40 | 14:50 | Image-based outcome prediction of inhibitory control testing in awake surgery of glioma patients | Pierre Robe | T.M. Kos, S.H. Hartung, M. de Boer, L.W. Bartels, M.J.E. van Zandvoort, P.A. Robe, T.P.C. van Doormaal | University Medical Center Utrecht |
| 14:50 | 15:00 | Greater disturbance of functional connectivity in patients with low grade glioma is associated with worse progression – free survival | Veit Stoecklein | Veit M Stoecklein, Stephan Wunderlich, Boris Papazov, Sophie Katzendobler, Jonathan Weller, Michael Schmutzer-Sondergeld, Christian Schichor, Florian Ringel and Sophia Stoecklein | LMU University Hospital Munich |
| 15:00 | 15:10 | BREAK | | | |
| 15:10 | 15:20 | BREAK | | | |
| 15:20 | 15:30 | BREAK | | | |
| 15:30 | 15:40 | Neuro-oncology and new treatment opportunities in low grade glioma | Andreas Hottinger | | Lausanne University Hospital CHUV |
| 15:40 | 15:50 | | | | |
| 15:50 | 16:00 | Discussion | | | |
| 16:00 | 16:10 | Real world outcomes of off-label IDH inhibitors | Karan Dixit | Karan Dixit, Matthew Tate, Jessica Templer, Melissa-Ann Mackie | Northwestern University, Evanston, Illinois |
| 16:10 | 16:20 | Cognitive functioning of patients with gliomas of the supplementary motor area: the role of tumor malignancy grade | Weronika Rejner | Weronika Rejner, Antonina Gottman-Narożna, Agnieszka Olejnik, Aleksandra Bala, Kacper Koczyk, Tomasz Dziedzic, Przemysław Kunert | Medical University of Warsaw |

| Start | Finish | Title | Speaker | Authors | Affiliation | |
|-------|--------|---|------------------------|--|--|--|
| 16:20 | 16:30 | NeuroMapper: a tablet-based testing platform to map patients' cognitive functions during awake craniotomy | Esteban Ramirez-Ferrer | Esteban Ramirez-Ferrer, Katherine Connelly, Lucie Lavelle, Shreyas Bhavsar, Sally Raty, Sherise Ferguson, Jeffrey Weinberg, Chibawayne Ene, Frederick Lang, Sujit S. Prabhu | The University of Texas MD Anderson Cancer Center | |
| 16:30 | 16:40 | Computational measures of clustering in verbal fluency: patterns following awake surgery in glioma patients | Logan Gaudet | Logan Gaudet, Marion Barberis, Adrià Rofes, Roel Jonkers, Emmanuel Mandonnet | Sorbonne Université, Paris | |
| 16:40 | 16:50 | Neurocognitive assessment tools in- and outside the awake surgery setting | Carolin Weiss Lucas | Carolin Weiss Lucas, Elisabeth Bumes, Ricardo Loução, Kristina Jonas, Katharina Rosengarth, Maura Becker, Juergen Hampl, Marco Timmer, Peter Hau, Roland Goldbrunner | University of Cologne, Faculty of Medicine and University Hospital Cologne | |
| 16:50 | 17:00 | Low grade glioma perio-operative cognitive assessment (LGG-POCA) survey | Francesco Vergani | LGG-POCA collaborators | King's College Hospital, London UK | |
| 17:00 | 17:10 | Only age predicts health-related quality of life one year after surgery: an assessment of diffuse lower-grade glioma from the LoG-Glio registry | Jan Coburger | Jan Coburger, Julia Onken, Minou Nadji-Ohl, Stefan Rückriegel, Dorothee Mielke, Marianne Kimpan, Constantin Roder, Marie-Therese Forster, Katja Kniese, Christine Jungk, Darius Kalasauskas, Ludovica Fabbrocini, Andreas Ziebart, Lennard Sannwald, Sabrina Riehl, Mario Löhr, Florian Ebner, Florian Ringel, Sandro Krieg, Arya Nabavi, Marcus Czabanka, Marcos Tatagiba, Rüdiger Gerlach, Veit Rohde, Ralf-Ingo Ernestus, Oliver Gansland, Peter Vajkoczy, Christian Rainer Wirtz | University of Ulm | |
| 17:10 | 17:20 | Work ability in patients after glioma surgery: a patients' perspective | Lena Rybka | Lena Rybka, Adrià Rofes, Roel Jonkers, Milena Burzlaff, Julia Onken, Peter Vajkoczy, Thomas Picht, Tizian Rosenstock | Charité - Universitätsmedizin Berlin | |
| 17:20 | 17:30 | First report of long-term overall survival of more than 20 years after low-grade glioma surgery | Hugues Duffau | | Montpellier University Medical Center | |
| 17:30 | 17:40 | Long-term family outcomes in grade 2 IDH-mutated glioma patients treated with awake-guided surgery: biological, professional, and therapeutic interactions. | Sam Ng | Sam Ng, Hugues Duffau | Montpellier University Medical Center | |
| 17:40 | 17:50 | Announcement of next meeting and closure | Seidel/Schucht/Raabe | | | |
| 17:50 | 18:00 | BREAK | | | | |
| 18:00 | 18:10 | BREAK | | | | |
| 18:10 | 18:20 | BREAK | | | | |
| 18:20 | 18:30 | BREAK | | | | |
| 18:30 | | Guided city tour and social dinner (Schwellenmätteli) | | | | |

Saturday April 5, 2025 - Hands-on Parallel Workshops

| | |
|-------------|---|
| 08:30–09:00 | Introduction: CCEPs with Riki Matsumoto |
| 09:00–11:00 | Workshop 1: Inomed Workshop 2: Nexstim |
| 11:00–11:30 | <i>Break</i> |
| 11:30–12:00 | Introduction: Fibre tracking with Stephanie Forkel |
| 12:00–13:30 | Workshop 3: Brainlab-Langer |
| 13:30–14:00 | <i>Break</i> |
| 14:00–15:30 | Workshop 4: Hands-on fibre tracking with Stephanie Forkel |

Workshop 1: Inomed (09:00-11:00)

Intraoperative mapping awake vs. asleep

In this workshop, we will discuss and practice how to set up intraoperative mapping for awake and asleep procedures.

Workshop 2: Nexstim (09:00-11:00)

nTMS hands on workshop to practice non-invasive, preprocedural motor mapping first hand

Guided by an experienced operator, you will be able to deliver pulses and see motor-evoked potentials in real-time. See how coil positioning, tilt and rotation influence the stimulation intensity on the cortex and why navigating the coil in real-time is crucial for accurate results. We will also show you how nTMS language mapping works and which types of errors you might see. Both nTMS motor and language mapping data can then be imported into pre-operative planning software to support awake mapping in the OR.

Workshop 3: Brainlab-Langer (12:00-13:30)

From Fibertracking to IONM - Hands on workshop

In this workshop, participants will engage in hands-on planning using Brainlab's Elements Fibertracking software, focusing on visualizing and analyzing brain white matter pathways to enhance surgical precision. Following this, Langer Medical will present their neuromonitoring approach designed to support surgeons within their workflow intraoperatively.

Workshop 4: Stephanie Forkel (14:00-15:30)

Hands-On Tractography Workshop: Mapping the Brain's White Matter Pathways

Join us for an immersive, hands-on tractography workshop, where you will explore the intricate architecture of the brain's white matter. Using state-of-the-art data and tools, participants will be guided through manual dissections of major association, projection, and commissural tracts, gaining a deeper understanding of their structural connectivity. This practical session is ideal for researchers, clinicians, and students keen to enhance their skills in neuroimaging and diffusion MRI analysis. Whether you're new to tractography or looking to refine your expertise, this workshop offers a unique opportunity to visualise and dissect white matter pathways with precision.

Organizing committee:

Prof. Dr. med. Kathleen Seidel

Jonathan Wermelinger, PhD

Contact: ELGGN-Meeting-Bern@insel.ch