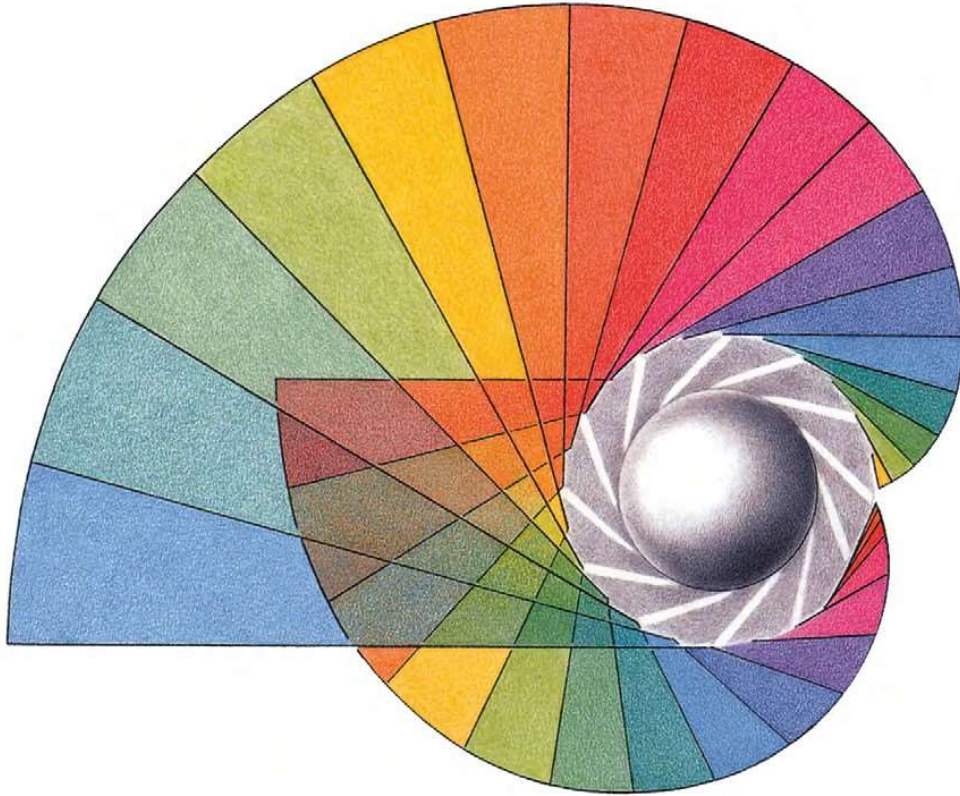




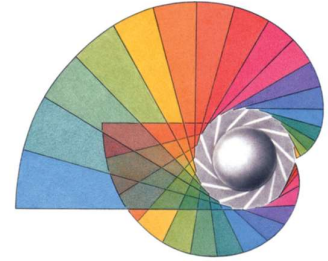
Klinisches Neurozentrum

Research Day

Thursday, 17. September 2026, 13:30 – 18:00 h

Hörsaal Monakow, Universitätsspital Zürich

KNZ Research Day 2026



Liebe Kolleginnen und Kollegen

Es freut uns, Sie zum Research Day des klinischen Neurozentrums 2026 einzuladen.

Auch in diesem Jahr geben wir Ihnen einen Einblick in wissenschaftliche Projekte aus unseren Kliniken – sowohl aus der Grundlagenforschung als auch aus der klinischen Forschung. Thematisch liegt ein Schwerpunkt auf der Nutzung von technologischen Fortschritten zum Wohle unserer Patient:innen.

Das Programm spiegelt die Breite der am KNZ betriebenen Wissenschaft wider. Die Vortragenden sind junge, vielversprechende Wissenschaftler, Eckpfeiler des heutigen KNZ und seiner Zukunft, auf der Ebene von Doktoranden/innen, Postdoktoranden/innen und Assistenzärzte/innen.

Wir freuen uns, Sie herzlich zum Research Day willkommen zu heißen und wünschen Ihnen spannende Vorträge, interessante Diskussionen und viel Vergnügen!

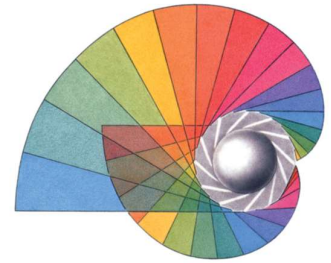
Freundliche Grüße

Prof. Dr. med.
Bettina Balint
Klinik für Neurologie

Prof. Dr. med. univ.
Tilman Schubert
Klinik für Neuroradiologie

PD Dr. med.
Michael Hugelshofer
Klinik für Neurochirurgie

Prof. Dr. med.
Zolt Kulcsár
Leiter Klinisches Neuro-
zentrum



KNZ Research Day 2026

Thursday, September 17, 2026

Monakow Hörsaal

Research Day 13.30 – 17.15

Franco Regli Research Prize Award 17.15 – 18.00

Apéro riche 18.00 – 19.00

13:30 – 13:35 Opening: Bettina Balint (NOS)

13:35 – 14:35 Session 1

Innovations: Applied Technology: Moderation Meltem Gönel (NCH)

- 13:35 – 13:45 Augmented reality-guided external ventricular drain placement: an optimized workflow**
Raphaelae Da Mutten (NCH)
- 13:45 – 13:55 The PD-CogT-Sleep Trial - Boosting Cognition in PD through Cognitive Training and Sleep Stimulation**
Marie Kleinsorge (NOS)
- 13:55 – 14:05 Remote thrombectomy in an animal model**
Patrick Thurner (NRA)
- 14:05 – 14:15 AU-FUS: Non-invasive local drug delivery in the brain**
Luis Padevit (NCH)
- 14:15 – 14:25 Quantitative Ocular Motor Biomarkers in Parkinson's Disease**
Konrad Weber (NOS)
- 14:25 – 14:35 Detecting high-frequency oscillations in real-time during epilepsy surgery to predict postoperative seizure outcome**
Jeroen Teuerlings (NCH)

14:35 – 15:15 Session 2

Advanced Imaging I: Moderation Patrick Thurner (NRA)

- 14:35 – 14:45 Assessment of Quantum Iterative Reconstruction in Photon-Counting Detector CT for Imaging of Intracranial Stents: A Comparison of Q1 vs Q4**
Fadi Ben Khalifa (NRA)
- 14:45 - 14:55 Advanced Hemodynamic Imaging in Acute Ischemic Stroke: Preliminary Results of the RESTORE-AIS Study**
Meltem Gönel (NCH)

- 14:55 – 15:05 Synthetic tomography from sparse radiographs of the brain and spine using diffusion methods**
Elias Müller (NCH)
- 15:05 – 15:15 Beyond Contrast Enhancement: Biosurgical validation of Hypoxia-Targeted MRI Hotspots in non-enhancing Glioblastoma Infiltration**
Tristan Schmidlechner (NCH)

15:15 – 15:45 Coffee Break

15:45 – 16:25 Session 3

Advanced Imaging II: Moderation Alexandra Todea (NRA)

- 15:45 – 15:55 Growth Dynamics and Malignant Transformation of Oligodendrogliomas: Integrating Radiomics, Molecular, and Clinical Data**
Kai Aebli (NRA)
- 15:55 – 16:05 Scanner- and Software-Specific rCBV Conversion Factors for Distinguishing Tumor Progression from Pseudoprogression in Glioblastoma**
Katrine Singer (NRA)
- 16:05 – 16:15 Enhancing intraoperative ultrasound visualization through 3D volume synthesis: The ShadowRipple project**
Alice Alonso (NCH)
- 16:15 – 16:25 Regional Brain Volume Trajectories and Immune Cell Reconstitution Dynamics after Autologous Hematopoietic Stem Cell Transplantation in Multiple Sclerosis**
Andrei Miclea (NOS)

16:25 – 17:15 Session 4

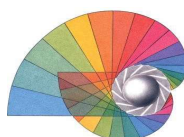
Advancements in Diagnostics and Therapies: Moderation Paulina Will (NOS)

- 16:25 – 16:35 Deciphering Cellular Sources of Extracellular Vesicle Phospho-Tau in Alzheimer's Disease**
Nils Briel (NOS)
- 16:35 – 16:45 Brain and biological aging in epilepsy**
Lubin Gou (NOS)
- 16:45 – 16:55 STAREcon technique in endovascular treatment of acute ischemic stroke**
Francesco Morra (NRA)
- 16:55 – 17:05 CAR PBMC Therapy for Glioblastoma**
Carlotta Dell'Anna (NOS)
- 17:05 – 17:15 Neuromodulation of Multisensory Processing in the Basal Ganglia of Patients with Movement Disorders**
Daniele Piccolo (NOS)

17:15 – 18:00 Franco Regli Prize Award Ceremony: Moderation Luca Regli (NCH)

- 17:15 – 17:20** **Presentation of the Franco Regli Foundation by Maria Cristina Donati (President)**
- 17:20 – 17:30** **Presentation of the research publication of Louis Albert as distinguished nominee:
Numerosity estimation of virtual humans as a digital robotic marker for hallucinations in
Parkinson's disease. Published in Nature Communications 2024**
- 17:30 – 17:40** **Presentation of the research publication of Sara Stampacchia as distinguished nominee:
Fingerprints of brain disease: Chronic dorm identify ability in Alzheimer's disease.
Published in Communications Biology 2024**
- 17:40 – 17:50** **Laudatio of the Franco Regli 2026 price winner**
- 17:50 – 18:00** **Awarding Franco Regli price and presentation of Sylvain Perriot and Samuel Jones:
Neuron-reactive KIR CD8 T cells display an encephalitogenic transcriptional program in
autoimmune encephalitis. Published in Nature Communications 2025**
- 18:00** **Closure of the Research Day**

18:00 – 19:00 Apéro riche for all participants in the Foyer Nord 2



Information

When

Thursday, 17. September 2026

13:30 – 18:00 h

This as an on-site event only

Contact

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Venue

Universitätsspital Zürich
Hörsaal Monakow
Frauenklinikstrasse 26
8091 Zürich

Directions

Tramlinien 9, 10 bis Haltestelle Haldenbach

Credits

SGNC 5 Credits

SGR 3 Credits

SNG 4 Credits

