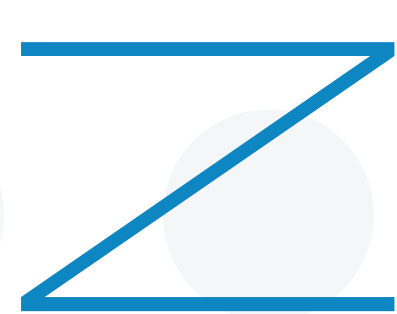


EEG Research Day 2025

7th May 2025 | HUG, Marcel-Jenny Auditorium, Geneva



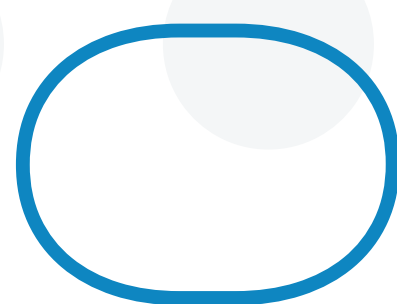
1 Rescuing EEG signal quality when dry electrodes get thirsty

Yingqi Huang, Abele Michela, Victor Ferat, Cristina Colangelo, Kishen Senziani, Tomas Ros

2

Are we conscious at all times? Neural evidence for a two-stage model of conscious perception

Maëlan Q. Menétrey, Michael H. Herzog, David Pascucci



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EEG microstates, acute phase negative symptoms of schizophrenia and antipsychotic treatment response

Marco De Pieri

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Enhancing electric source imaging via connectomics

Nino Herve, Nicolas Roehri, Yasser Alemán-Gómez, Emma Depuydt, Thomas Sanchez, Patric Hagmann



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Intracerebral EEG investigation of the heartbeat evoked response across vigilance states in human

Florian Perrin, Marzia De Lucia, Philippe Ryvlin



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Neural endocrine and cardiac coordination in sleep; Insights from slow wave, ECG R-Peak - Spindle coupling and cortisol

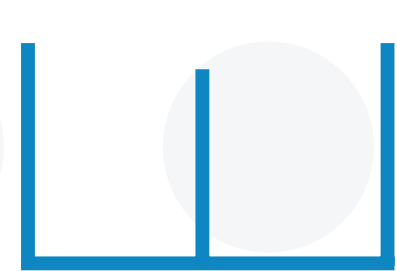
Christian Mikutta, Kris Feher, Elisabeth Hertenstein, Carlotta Schneider, Dieter Riemann, Bernd Feige, Christoph Nissen



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Evaluating the impact of cardiac artifact removal on the investigation of the neural responses to cardiac stimuli in wakefulness and sleep

Jacinthe Cataldi, Andria Pelentritou, Sophie Shwartz, Marzia De Lucia



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The role of anatomic connectivity in inhibitory control revealed by combining connectome-based lesion-symptom mapping with Event-related potentials

Alex Stephane, Tchugwa Nono



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Web-app to interactively visualize multimodal and multidimensional data for epilepsy surgery

Isotta Rigoni, Louise De Wouters d'Oplinter, Juanli Zhang, Steven Beumer, Serge Vulliémoz, Nicolas Roehri

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Disruption of functional gradients in genetic generalized epilepsy and its clinical relevance: Evidence from high-density EEG

Juanli Zhang, Isotta Rigoni, Dimitri Van De Ville, Serge Vulliémoz, Nicolas Roehri



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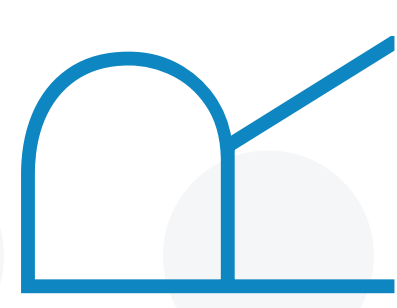
VR-based meditation with the Third-Person Perspective(3PP) modulated minimal self and alpha oscillations.

Hang Yang, Bruno Herbelin, Monika Stasytyte, Chuong Ngo, Loup Vuarnesson, Olaf Blanke

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Preliminary data on power spectral analysis of resting-state EEG in cognitive decline and healthy aging

Camille Bouhour, Vincent Rochas, Denis Brunet, Konstantin Toussas, Paul G. Unschuld, Lucie Bréchet



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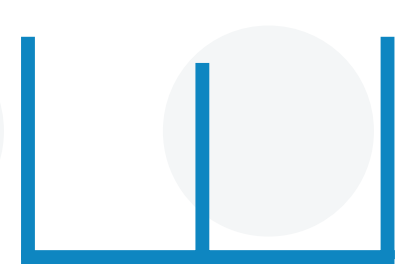
Focal slowing in first seizures: Insights from source localization and network metrics

Steven Beumer, Cecilia Catania, Stefano Gallotto, Eric Ménétré, Margitta Seeck

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AI-Powered epilepsy diagnosis using low-frequency photic stimulation

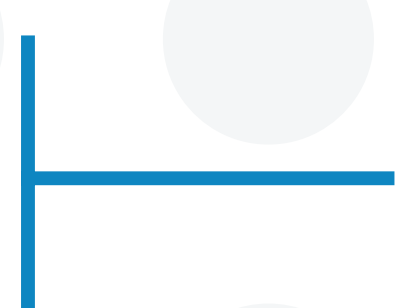
Erin Mahan, Stefano Gallotto, Eric Ménétré, Margitta Seeck



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How does thinking more positively change our mind?

Chunyan Shi, Jonathan Wirsich, Zile Chen, Vuilleumier Patrik



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When two minds align: Exploring conceptual alignment through EEG hyperscanning and microstates analysis

Manon Haulotte, Nicolas Burra



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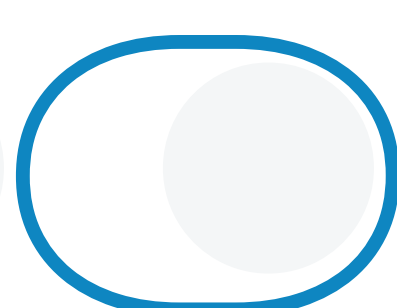
Inter-individual variability in visual evoked potentials is not noise

Melissa Faggella, Maya Roinishvili, Eka Chkonia, Michael Herzog, Simona Garobbio, Wei-Hsiang Lin

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Source-reconstructed EEG graph spectral decomposition and application to epilepsy surgery prognosis

Louise de Wouters, Nicolas Roehri, Stanislas Lagarde, Emeline Mullier, Margitta Seeck, Dimitri Van De Ville, Patric Hagmann, Isotta Rigoni, Serge Vulliémoz



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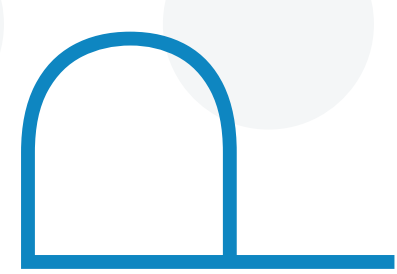
Inverse methods comparison using simultaneous EEG-iEEG dataset

Maria Dimou, Andrea Pigorini, Ezequiel Mikulan, Laurent Spinelli, Shahan Momjian, Margitta Seeck, Serge Vulliémoz, Nicolas Roehri

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Cardio-audio regularity encoding modulates pupillary responses over time

Giovanni Chiarion, Andria Pelentritou, Sophie Schwartz, Marzia De Lucia



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Correlation between multi-unit activity and broadband high frequency: Influence of recording techniques and brain states

Jules Veber, Jonathan Monney, Lora Fanda, Laurent Spinelli, Shahan Momjian, Fiorenzo Artoni, Pierre Mégevand