

NEWS

Sami El-Boustani and his team has shown in a new article how hyper-motivation in mice leads to strong stimulation of cortical neurons, which causes a loss of precision in the perception of tactile stimuli. In contrast, in low-motivation state, the accuracy of the sensory information was recovered, but the strength of the signal was too low to be transferred correctly and the perception consequently impaired. A result to be read in *Neuron*.

MOTIVATION



<https://www.unige.ch/communication/communiqués/en/2022/trop-de-motivation-nuit-notre-prise-de-decision>

AWARD



Habib Zaïdi has been distinguished Honorary Fellow by the British Institute of Radiology - BIR who awards original research to the scientific advancement of radiology, radiation oncology and the underlying science. This nomination follows his important contributions to multimodal medical imaging, his involvement in teaching and his leadership among his peers.

<https://www.bir.org.uk/get-involved/prizes,-awards-and-bursaries/honorary-fellows.aspx>

GRANT



Aurélien Lathuilière has been awarded the Swiss National Science Foundation (SNSF) Ambizione Fellowship for his project “Probing the heterogeneity of pathological tau species in neurodegenerative disorders”, aiming at developing. He will be hosted by Pr Giovanni Frisoni, at the Centre de la Mémoire.

<https://www.unige.ch/recherche/success/laureat-e-s-Ambizione-PRIMA/aurelien-lathuiliere>

SLEEP



Lampros Perogamvros (Ambizione fellow in Sophie Schwartz’s team) has developed a promising new technique combining the classic therapy with the Targeted Memory Reactivation (TMR) method to decrease patients’ nightmares and increase their positive dreams. To be read in *Current Biology*.

<https://www.unige.ch/communication/communiqués/en/2022/laccord-majeur-qui-soigne-les-cauchemars>

LEMANIC NEUROAGENDA

November 7

11:00, onsite

Dept of Basic Neuroscience, UNIGE

📍 Auditoire Reynold B01.2426, CMU, Geneva

[Valentina Borghesani](#), department of basic neuroscience, UNIGE, Switzerland

Title: Bringing clinical and cognitive neuroscience together to investigate semantics, above and beyond language

November 8

17 :30, online

Colloque du Centre de la Mémoire, HUG

[Join](#)

[Tiziana Borsello](#), Neuronal death and neuroprotection lab, University of Milano, Italy

Title: JNK3 at the crossroads between diagnosis and treatment of neurological diseases

November 8

16:30, onsite and online

CISA Lecture series, UNIGE

📍 H8-O1D, Campus Biotech, Geneva

[Join](#)

[Cat Hobaiter](#), School of Psychology and Neuroscience, University of St Andrews, UK

Title: Exploring emotion in the expression of ape gesture

November 9

16:00, onsite

BMI Seminar, EPFL

📍 SV1717, EPFL, Lausanne

[Tim Gentner](#), University of California, San Diego, USA

Title: Intrinsic Geometry of a Combinatorial Sensory Neural Code for Birdsong

November 11

9:00, onsite and online

Lasuel Lab Seminar, EPFL

📍 AI1153, EPFL, Lausanne

[Join](#)

[Yvette Roke & Jamie Hoefakker](#), GGz Centraal, Netherlands

Title: Self-direction in daily stress management: the solution for mental health issues

November 14

11:00, onsite

Dept of Basic Neuroscience, UNIGE

📍 Auditoire Boymond B02.2226, CMU, Geneva

[Eduardo Gascon Gonzales](#), NeuroMarseille, University of Aix-Marseille, France

Title: Using non-human primates to unravel the neuronal circuits involved in stress-related disorders

November 15

12:15, onsite and online

B&C Seminar, COSYN, UNIGE

📍 H8-01F, Campus Biotech, Geneva

To join: francoise.defferrard@unige.ch

[Anna Gaglianese](#), Radiology Department, Lausanne University Hospital and University of Lausanne, Switzerland

Title: tba

November 16

16:00, online

Neuro-X Seminar, EPFL

[Join](#)

[Dora Hermes Miller](#), Mayo Clinic, USA

Title: Driving human visual cortex, visually and electrically

November 23

16:00, onsite and online

BMI Seminar, EPFL

📍 SV1717, EPFL, Lausanne

[Join](#)

[Valentina Elimiani](#), Wavefront-engineering microscopy group, Vision Institute, Paris, France

Title: Wavefront shaping and circuit optogenetics

World Wide Neuro

Online platform gathering webinars

All seminars hosted by [WorldWideNeuro here](#)

NEUROCENTER PUBLICATIONS

October 2022

What a single electroencephalographic (EEG) channel can tell us about patients with dementia due to Alzheimer's disease.

Del Percio C, Noce G, Lopez S, Tucci F, Carlin G, Lizio R, Musat AM, Soricelli A, Salvatore M, Ferri R, Nobili F, Arnaldi D, Famà F, Buttinelli C, Giubilei F, Marizzoni M, Güntekin B, Yener G, Stocchi F, Vacca L, Frisoni GB, Babiloni C

[International journal of psychophysiology : official journal of the International Organization of Psychophysiology - Oct 2022](#)

Large-scale brain network dynamics in very preterm children and relationship with socio-emotional outcomes: an exploratory study.

Siffredi V, Liverani MC, Freitas LGA, Tadros D, Farouj Y, Borradori Tolsa C, **Van De Ville D**, Hüppi PS, Ha-Vinh Leuchter R

[Pediatric research - Nov 2022](#)

Measuring social orienting in preschoolers with autism spectrum disorder using cartoons stimuli.

Robain F, Godel M, Kojovic N, Franchini M, Journal F, **Schaer M**

[Journal of psychiatric research - Oct 2022](#)

Enhancing imagery rehearsal therapy for nightmares with targeted memory reactivation.

Schwartz S, Clerget A, **Perogamvros L**

[Current biology : CB - Oct 2022](#)

Does mental rotation emulate motor processes? An electrophysiological study of objects and body parts.

Menéndez Granda M, Iannotti GR, Darqué A, **Ptak R**

[Frontiers in human neuroscience - 2022](#)

The effects of Swiss summer camp on the development of socio-emotional abilities in children.

Gerber Y, **Gentaz E**, Malsert J

[PloS one - 2022](#)

Risk factors for unfavorable outcome at discharge of newborns with hypoxic-ischemic encephalopathy in the era of hypothermia.

Debillon T, Sentilhes L, Kayem G, Chevallier M, Zeitlin J, **Baud O**, Vilotitch A, Pierrat V, Guellec I, Ancel PY, Bednarek N, Ego A

[Pediatric research - Oct 2022](#)

Examining the synergistic effects of a cognitive control video game and a home-based, self-administered non-invasive brain stimulation on alleviating depression: the DISCoVeR trial protocol.

Dechantsreiter E, Padberg F, Morash A, Kumpf U, Nguyen A, Menestrina Z, Windel F, Burkhardt G, Goerigk S, Morishita T, Soldini A, Ahissar S, Cohen T, Pasqualotto A, Rubene L, Konosonoka L, Keeser D, Zill P, Assi R, Gardier R, Viñals R, Thiran JP, Segman R, Benjamini Y, Bonne O, Hummel FC, **Bavelier D**, Rancans E, Nahum M

[European archives of psychiatry and clinical neuroscience - Oct 2022](#)

Touching while listening: Does infants' haptic word processing speed predict vocabulary development?

Beaudin K, Poulin-Dubois D, **Zesiger P**

[Journal of child language - Oct 2022](#)

A Genome-Wide Association Study of Outcome After Aneurysmal Subarachnoid Haemorrhage: Discovery Analysis.

Gaastra B, Alexander S, Bakker MK, Bhagat H, **Bijlenga P**, Blackburn SL, Collins MK, Doré S, Griessenauer CJ, Hendrix P, Hong EP, Hostettler IC, Houlden H, Ilhara K, Jeon JP, Kim BJ, Li J, Morel S, Nyquist P, Ren D, Ruigrok YM, Werring D, Tapper W, Galea I, Bulters D
[Translational stroke research - Oct 2022](#)

Predicting Perioperative Mortality in Children: Academic Endeavor or Clinical Value?
Vutskits L, Davidson A
[Anesthesiology - Nov 2022](#)

Early Schizotypy and Risk: The Need for Integrating Developmental Dynamics.
Debbané M, Fonseca Pedrero E
[Schizophrenia bulletin - Oct 2022](#)

Cognitive and biological effects of citrus phytochemicals in subjective cognitive decline: a 36-week, randomized, placebo-controlled trial.
Galluzzi S, Zanardini R, Ferrari C, Gipponi S, Passeggia I, Rampini M, Sgrò G, Genovese S, Fiorito S, Palumbo L, Pievani M, **Frisoni GB**, Epifano F
[Nutrition journal - 10 2022](#)

Gender disparity in neurosurgery: A multinational survey on gender-related career satisfaction.
Zeitlberger AM, Baticam NS, Sprenger L, Tizi K, **Schaller K**, Stienen MN
[Brain & spine - 2022](#)

Chronic Subdural Hematoma (cSDH): A review of the current state of the art.
Nouri A, Gondar R, **Schaller K**, Meling T
[Brain & spine - 2021](#)

Next-generation brain observatories.
Koch C, Svoboda K, Bernard A, Basso MA, Churchland AK, Fairhall AL, Groblewski PA, Lecoq JA, Mainen ZF, Mathis MW, Olsen SR, Phillips JW, **Pouget A**, Saxena S, Siegle JH, Zador AM
[Neuron - Oct 2022](#)

Cortical sensory processing across motivational states during goal-directed behavior.
Matteucci G, Guyoton M, Mayrhofer JM, Auffret M, Foustoukos G, Petersen CCH, **El-Boustani S**
[Neuron - Oct 2022](#)

Toward individualized medicine in stroke-The TiMeS project: Protocol of longitudinal, multi-modal, multi-domain study in stroke.
Fleury L, Koch PJ, Wessel MJ, Bonvin C, San Millan D, Constantin C, Vuadens P, Adolphsen J, Cadic Melchior A, Brügger J, Beanato E, Ceroni M, Menoud P, De Leon Rodriguez D, Zufferey V, Meyer NH, Egger P, Harquel S, Popa T, Raffin E, Girard G, Thiran J, Vaney C, Alvarez V, Turlan JL, Mühl A, Léger B, Morishita T, Micera S, Blanke O, Van De Ville D, Hummel FC
[Frontiers in neurology - 2022](#)

Residential trajectories across the life course and their association with cognitive functioning in later life.
Orsholits D, Cullati S, Cheval B, Ghisletta P, Oris M, Maurer J, Studer M, Marques A, Marconcin P, Gouveia ÉR, **Kliegel M**, Ihle A
[Scientific reports - Oct 2022](#)

Two-step machine learning to diagnose and predict involvement of lungs in COVID-19 and pneumonia using CT radiomics.
Moradi Khaniabadi P, Bouchareb Y, Al-Dhuhli H, Shiri I, Al-Kindi F, Moradi Khaniabadi B, **Zaidi H**, Rahmim A
[Computers in biology and medicine - Oct 2022](#)

Effect of an 18-Month Meditation Training on Regional Brain Volume and Perfusion in Older Adults: The Age-Well Randomized Clinical Trial.

Chételat G, Lutz A, Klimecki O, Frison E, Asselineau J, Schlosser M, Arenaza-Urquijo EM, Mézenge F, Kuhn E, Moulinet I, Touron E, Dautricourt S, André C, Palix C, Ourry V, Felisatti F, Gonneaud J, Landeau B, Rauchs G, Chocat A, Quillard A, Devouge EF, **Vuilleumier P**, de La Sayette V, Vivien D, Collette F, Poinsnel G, Marchant NL
[JAMA neurology - Oct 2022](#)

European consensus for the diagnosis of MCI and mild dementia: Preparatory phase.
Festari C, Massa F, Cotta Ramusino M, Gandolfo F, Nicolosi V, Orini S, Aarsland D, Agosta F, Babiloni C, Boada M, Borroni B, Cappa S, Dubois B, Frederiksen KS, Froelich L, **Garibotto V**, Georges J, Haliassos A, Hansson O, Jessen F, Kamondi A, Kessels RPC, Morbelli S, O'Brien JT, Otto M, Perret-Liaudet A, Pizzini FB, Ritchie CW, Scheltens P, Vandenbulcke M, Vanninen R, Verhey F, Vernooij MW, Yousry T, Van Der Flier WM, Nobili F, **Frisoni GB**
[Alzheimer's & dementia : the journal of the Alzheimer's Association - Oct 2022](#)

Behavioral correlates of temporal attention biases during emotional prosody perception.
Guex R, **Grandjean D**, Frühholz S
[Scientific reports - Oct 2022](#)

A brain atlas of synapse protein lifetime across the mouse lifespan.
Bulovaite E, Qiu Z, Kratschke M, Zgraj A, Fricker DG, Tuck EJ, Gokhale R, Koniaris B, Jami SA, Merino-Serrais P, Husi E, Mendive-Tapia L, Vendrell M, O'Dell TJ, DeFelipe J, Komiyama NH, **Holtmaat A**, Fransén E, Grant SGN
[Neuron - Sep 2022](#)

Attentional Demand of Motor Speech Encoding: Evidence From Parkinson's Disease.
Fournet M, Chiuvé SC, **Laganaro M**
[Journal of speech, language, and hearing research : JSLHR - Oct 2022](#)

mutations cause hypogonadotropic hypogonadism with sensory and cognitive deficits that can be reversed in infantile mice.
Chachlaki K, Messina A, Delli V, Leysen V, Maurnyi C, Huber C, Ternier G, Skrapits K, Papadakis G, Shruti S, Kapanidou M, Cheng X, Acierno J, Rademaker J, Rasika S, Quinton R, Niedziela M, L'Allemand D, Pignatelli D, Dirlwander M, Lang-Muritano M, Kempf P, Catteau-Jonard S, Niederländer NJ, Ciofi P, Tena-Sempere M, Garthwaite J, Storme L, Avan P, Hrabovszky E, **Carleton A**, Santoni F, Giacobini P, Pitteloud N, Prevot V
[Science translational medicine - Oct 2022](#)

Mind blanking is a distinct mental state linked to a recurrent brain profile of globally positive connectivity during ongoing mentation.
Mortaheb S, Van Calster L, Raimondo F, Klados MA, Boulakis PA, Georgoula K, Majerus S, **Van De Ville D**, Demertzi A
[Proceedings of the National Academy of Sciences of the United States of America - 10 2022](#)

A century of research on psychedelics: A scientometric analysis on trends and knowledge maps of hallucinogens, entactogens, entheogens and dissociative drugs.
Solmi M, Chen C, Daure C, Buot A, Ljuslin M, Verroust V, Mallet L, Khazaal Y, Rothen S, Thorens G, **Zullino D**, Gobbi G, Rosenblat J, Husain MI, De Gregorio D, Castle D, Sabé M
[European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology - Sep 2022](#)