The Neurocenter received this year almost 150 applications to the Master’s Program in neuroscience. Of these, 76 were preselected based on merit. To secure final admission to the program, students are required to identify a host lab at UNIGE where they will conduct their Master’s research project for a duration of 3 to 5 semesters before May 1st. If you have research projects that allow you to recruit Master’s students, please contact the program coordinator who will provide you with access to the list of available candidates.

Contact: Delphine.Jochaut@unige.ch

Alexandre Pouget’s team has achieved the remarkable feat of modeling an artificial neural network capable of learning a task solely from verbal or written instructions and then describing it to another AI, which can also perform it. After learning and performing a series of basic tasks, this AI was able to provide a linguistic description of them to a “sister” AI, which in turn performed them. These promising results, especially for robotics, are published in *Nature Neuroscience*.


Why does live music evoke so many emotions in us? Didier Grandjean, comments a study conducted at the University of Zurich that revealed that live music triggers a greater emotional response in us than listening to recorded music on a device and answers questions in CQFD.


The RTS program Dis-Pourquoi, which seeks to answer a major question of humanity each week, has launched a series of 5 podcasts on the sense of smell. In these podcasts, Ivan Rodriguez answers questions about how smell works, the innate and acquired aspects of smell, pheromones, and other topics related to odors. Find the episodes of the program here:

https://avisdexperts.ch/experts/ivan_rodriguez
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 9</td>
<td>14h00, onsite</td>
<td>Vision &amp; Cognition Seminar, EPFL</td>
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<tr>
<td></td>
<td></td>
<td>AI1153, EPFL, Lausanne</td>
<td>Julie Simpson, UC Santa Barbara, California, USA</td>
<td>Mapping neural circuits for fly grooming as a model motor sequence</td>
</tr>
<tr>
<td>April 9</td>
<td>15:00, onsite</td>
<td>BMI Seminar, EPFL</td>
<td>Jacob H. Hanna, Weizmann Institute of Science, Israël</td>
<td>Synthetic ex utero embryogenesis: from naive stem cells to complete embryo models</td>
</tr>
<tr>
<td>April 10</td>
<td>12:15, onsite and online</td>
<td>BMI Seminar, EPFL</td>
<td>Anthony Holtmaat, Department of basic neuroscience, University of Geneva</td>
<td>Thalamocortical feedback circuits selectively control pyramidal neuron excitability</td>
</tr>
<tr>
<td>April 15</td>
<td>11:00, onsite</td>
<td>Dept of Basic Neuroscience, UNIGE</td>
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<td></td>
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<td>BO2.2526A, CMU, Geneva</td>
<td>Nachum Ulanovsky, Department of Brain Sciences, Weizmann Institute of Science, Israël</td>
<td>tba</td>
</tr>
<tr>
<td>April 15</td>
<td>17:30-19:30, online</td>
<td>Centre de la Mémoire, HUG, Geneva</td>
<td>Nicholas Bokulich, Institute of Food, Nutrition, and Health, ETH Zürich, Switzerland</td>
<td>Preserving microbial diversity as a keystone of human and planetary health</td>
</tr>
<tr>
<td>April 15-16</td>
<td>9:00-17h30, onsite and online</td>
<td>EPFL</td>
<td>Conference SRM 2024: Stress and resilience: exploring new horizons in science and applications</td>
<td>Program</td>
</tr>
<tr>
<td>April 16</td>
<td>12:15, onsite and online</td>
<td>B&amp;C Seminar, CISA, UNIGE</td>
<td>Giulio Bernardi, IMT School for Advanced Studies Lucca, Italy</td>
<td>Affective processing during (local) sleep and dreams</td>
</tr>
<tr>
<td>April 17</td>
<td>12:15, onsite and online</td>
<td>BMI Distinguished Seminar, EPFL</td>
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<td>SV1717, EPFL, Lausanne</td>
<td>Martin Picard, Columbia University, New York, USA</td>
<td>Mitochondrial diversity in the mouse and human brain</td>
</tr>
<tr>
<td>April 18</td>
<td>17:00, onsite and online</td>
<td>NeuClI Talks, HUG</td>
<td>Michael Strup, Munich Center for Neurosciences, Ludwig Maximilians University, Germany</td>
<td>Update on vestibular, ocular motor and cerebellar disorders</td>
</tr>
</tbody>
</table>
April 18
12:15, onsite
DNF, UNIL
More

Ivan De Araujo, Max Planck Institute for Biological Cybernetics, Tübingen, Germany
Title: Brain-Body Communication and the Regulation of Emotional Behaviors

April 22
11:00, onsite
Dept of Basic Neuroscience, UNIGE
📍B02.2526A, CMU, Geneva
More

Emmanouil Froudarakis, Institute of Molecular Biology & Biotechnology FORTH, Greece
Title: Using object recognition in mice as a model for studying cortical computations

April 22
12:15, onsite and online
B&C Seminar, COSYN, UNIGE
📍Auditorium, Campus Biotech, Geneva
More

Jessica Peter, University Clinics UPD, University of Bern, Switzerland
Title: Non-pharmacological interventions to enhance memory

April 24
12:15, onsite and online
BMI Seminar, EPFL
📍SV1717, EPFL, Lausanne
More

Katharina Gapp, Department of Health Science and Technology, ETZH, Switzerland
Title: A novel tool to combat stress (-hormone receptor) signatures

April 25
12:15, onsite
DNF, UNIL
More

Gina Turrigiano & Sacha Nelson, Dept of Biology, Brandeis University, USA
Title: Keeping Your Brain in Balance: Homeostatic Regulation of Network Function/Clock genes constrain homeostatic plasticity

April 29
11:00, onsite
Dept of Basic Neuroscience, UNIGE
📍B02.2526A, CMU, Geneva
More

Christian Lüscher & Eva Xia Wang, Department of basic neuroscience, UNIGE, Switzerland
Title: tba

April 29
9:00-17:30, onsite
Weigert Lab, EPFL, Lausanne
📍BS15O, EPFL
Join

Computational Imaging-based Spatial Biology Workshop
Registration (until April 12)

April 30
12:15, onsite and online
B&C Seminar, NCCR Evolving Language, UNIGE
📍H8-01D, Campus Biotech, Geneva
More

Marina Laganaro, Faculty of Psychology, University of Geneva, Switzerland
Title: From lexical selection to articulation across the lifespan

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The effect of harmonization on the variability of PET radiomic features extracted using various segmentation methods.
Annals of nuclear medicine - Apr 2024

Alterations in gamma frequency oscillations correlate with cortical tau deposition in Alzheimer’s disease.
Neurobiology of aging - Mar 2024

Mathoux G, Boccalini C, Lathuliere A, Scheffler M, Frisoni GB, Garibotto V
EJNMMI research - Apr 2024

Electrophysiological analysis of signal detection outcomes emphasizes the role of decisional factors in recognition memory.
Schneider S, Coll SY, Schnider A, Ptak R
Frontiers in human neuroscience - 2024

Developmental anaesthesia neurotoxicity in humans: finding the sweet spot?
Vutskits L
British journal of anaesthesia - Apr 2024

Routine CSF parameters as predictors of disease course in multiple sclerosis: an MSBase cohort study.
Journal of neurology, neurosurgery, and psychiatry - Apr 2024

Correction: Evaluating the effect of action-like video game play and of casual video game play on anxiety in adolescents with elevated anxiety: protocol for a multi-center, parallel group, assessor-blind, randomized controlled trial.
Gradi N, Chopin A, Bavelier D, Shechner T, Pichon S
BMC psychiatry - Apr 2024

Hidden Reward: Affect and Its Prediction Errors as Windows Into Subjective Value.
Vollberg MC, Sander D
Current directions in psychological science - Apr 2024

Impaired free recall of neutral but not negative material tested 105 min after cortisol administration.
Barros Rodrigues D, Antypa D, Rimmele U
Neurobiology of learning and memory - Mar 2024

Positive and negative symptoms in methamphetamine-induced psychosis compared to schizophrenia: A systematic review and meta-analysis.
Cohen-Laroque J, Grangier I, Perez N, Kirschner M, Kaiser S, Sabé M
Schizophrenia research - Mar 2024
The diagnostic and prognostic value of tau-PET in amnestic MCI with different FDG-PET subtypes.
Boccalini C, Caminiti SP, Chiti A, Frisoni GB, Garibotto V, Perani D,
*Annals of clinical and translational neurology* - Mar 2024

The VertiGO! Trial protocol: A prospective, single-center, patient-blinded study to evaluate efficacy and safety of prolonged daily stimulation with a multichannel vestibulocochlear implant prototype in bilateral vestibulopathy patients.
*PloS one* - 2024

De Simone M, Iaconetta G, Palermo G, Fiorindi A, Schaller K, De Maria L
*Brain sciences* - Mar 2024

Adaptive LDA Classifier Enhances Real-Time Control of an EEG Brain-Computer Interface for Decoding Imagined Syllables.
Wu S, Bhadra K, Giraud AL, Marchesotti S
*Brain sciences* - Feb 2024

Effects of word length and frequency on word identification in second- and fifth-grade children as a function of language skills.
Ballot C, Zesiger P
*Journal of experimental child psychology* - Mar 2024

Impact of harmonization on the reproducibility of MRI radiomic features when using different scanners, acquisition parameters, and image pre-processing techniques: a phantom study.
Hajianfar G, Hosseini SA, Bagherieh S, Oveisi M, Shiri I, Zaidi H
*Medical & biological engineering & computing* - Mar 2024

Measurement of the Mapping between Intracranial EEG and fMRI Recordings in the Human Brain.
*Bioengineering (Basel, Switzerland)* - Feb 2024

*Neonatology* - Mar 2024

Association between Portal Vein Thrombosis after Umbilical Vein Catheterization and Neonatal Asphyxia.
*Neonatology* - Mar 2024

Thalamic contributions to psychosis susceptibility: Evidence from co-activation patterns accounting for intra-seed spatial variability (μCAPs).
Delavari F, Sandini C, Kojovic N, Saccaro LF, Eliez S, Van De Ville D, Bolton TAW
*Human brain mapping* - Apr 2024

Author Correction: Generation of human islet cell type-specific identity genesets.
van Gurp L, Fodoulian L, Oropeza D, Furuyama K, Bru-Tari E, Vu AN, Kaddis JS, Rodriguez I, Thorel F, Herrera PL
*Nature communications* - Mar 2024
Semi-supervised learning towards automated segmentation of PET images with limited annotations: application to lymphoma patients.

Yousefizadeh F, Shiriz I, O JH, Bloise I, Martineau P, Wilson D, Benard F, Sehn LH, Savage KJ, Zaidi H, Uribe CF, Rahmim A

Physical and engineering sciences in medicine - Mar 2024

Functional hemispheric disconnection procedures for chronic epilepsy: history, indications, techniques, complications and current practice in Europe. A consensus statement on behalf of the EANS functional neurosurgery section.


Brain & spine - 2024

The spectrum of acute and chronic consequences of neurotrauma in professional and amateur boxing - A call to action is advocated to better understand and prevent this phenomenon.

Da Broi M, Al Awadhi A, Voruz P, Nouri A, Schaller K

Brain & spine - 2024

Rehabilitation of hemianopia and visuospatial hemineglect with a mixed intervention including adapted boxing therapy: An exploratory case study.

Nahum L, Ptak R

Neuropsychological rehabilitation - Mar 2024

The visual familiarity effect on attentional working memory maintenance.

Schneider P, Vergauwe E, Camos V

Memory & cognition - Mar 2024

Gephyrin phosphorylation facilitates sexually dimorphic development and function of parvalbumin interneurons in the mouse hippocampus.


Molecular psychiatry - Mar 2024

Social skills in neurodevelopmental disorders: a study using role-plays to assess adolescents and young adults with 22q11.2 deletion syndrome and autism spectrum disorders.

Feller C, Ilen L, Eliez S, Schneider M

Journal of neurodevelopmental disorders - Mar 2024

Natural language instructions induce compositional generalization in networks of neurons.

Riveland R, Pouget A

Nature neuroscience - Mar 2024

Towards on-skin analysis of sweat for managing disorders of substance abuse.


Nature biomedical engineering - Mar 2024

The neurobiology of life course socioeconomic conditions and associated cognitive performance in middle to late adulthood.


The Journal of neuroscience : the official journal of the Society for Neuroscience - Mar 2024

Intracranial epidermoid cyst: a volumetric study of a surgically challenging benign lesion.

Kiss-Bodolay D, Hautmann X, Lee KS, Rohde V, Schaller K
Distinctive clinical and imaging trajectories in SWEDD and Parkinson's disease patients.
Boccalini C, Nicastro N, Perani D, Garibotto V
NeuroImage. Clinical - Mar 2024

Disengagement of attention with spatial neglect: a systematic review of behavioral and anatomical findings.
Ptak R, Bourgeois A
Neuroscience and biobehavioral reviews - Mar 2024

Low-Dose Radiation Therapy Impacts Microglial Inflammatory Response without Modulating Amyloid Load in Female TgF344-AD Rats.
Journal of Alzheimer's disease : JAD - 2024

Predictors of Nursing Home Placement in a Cohort of European People with Alzheimer's Disease and Other Dementia Cases Enrolled in SCU-B or Non SCU-B Centers: The RECAge Study.
Journal of Alzheimer's disease : JAD - 2024

A blood-based biomarker workflow for optimal tau-PET referral in memory clinic settings.
Nature communications - Mar 2024

Using transcranial alternating current stimulation to enhance working memory skills in youths with 22q11.2 deletion syndrome: A randomized double-blind sham-controlled study.
Psychiatry research - Mar 2024

Journal of global health - Mar 2024

A new section to promote clinical trials and related methodology.
Baud O
Pediatric research - Mar 2024

Influence of transient emotional episodes on affective and cognitive theory of mind.
Qiao-Tasserit E, Corradi-Dell'Acqua C, Vuilleumier P
Social cognitive and affective neuroscience - Mar 2024

Mapping brain metabolism, connectivity and neurotransmitters topography in early and late onset dementia with Lewy bodies.
Caminiti SP, Galli A, Jonghi-Lavarini L, Boccalini C, Nicastro N, Chiti A, Garibotto V, Perani D
Parkinsonism & related disorders - Feb 2024

Microstate Analysis of Continuous Infant EEG: Tutorial and Reliability.
Bagdasarov A, Brunet D, Michel CM, Gaffrey MS
Brain topography - Mar 2024
Variations in Autoregulation-Based Optimal Cerebral Perfusion Pressure Determination Using Two Integrated Neuromonitoring Platforms in a Trauma Patient.
Plourde G, Carrier FM, Bijlenga P, Quintard H
Neurocritical care - Feb 2024