The Neurocenter is happy to announce the winners of the Neurocenter prizes 2023. We awarded four students, two for the NeuroMasterDay poster and two for their whole work throughout the year.

**NeuroMasterDay best poster in the cognitive field**

**Susanne Cambi**, Nadia Micali/Petra Hüppi labs, supervised by Cristina Berchio, for her poster “Cardiac interoception in Anorexia Nervosa: a resting-state heartbeat-evoked potential study”.

**NeuroMasterDay best poster in the cellular/molecular field**

**Elena Georgiou**, Ivan Rodriguez/Alan Carleton labs, supervised by Joël Tuberosa, for her poster “Characterisation of new transgenic lines to target claustrum excitatory neurons”.

**Neurocenter First Year Master student Price**

**Nicolas Piron**, Patrik Vuilleumier lab, supervised by Carole Guedj and Nicolas Burra, for his work about the Impact of pulvinar lesion on goal-directed visual attentional processes.

**Neurocenter Second Year Master student Price**

**Kevin Mammeri**, Sophie Schwartz lab, supervised by Virginie Sterpenich for his work about the dialogue between sleep, cognition, and affective state during development.

Congratulations to them!

Edouard Gentaz’s team in collaboration with the Université Lumière Lyon 2, the Université Paris 8 and the publishing house ”Les Doigts Qui Rêvent”, has designed a book of tactile illustrations to which sounds have been associated. This innovative tool makes it easier for children with or without visual impairment to identify objects. These results are published in the *British Journal of Visual Impairment*.


In an interview for CQFD program of the RTS, Boris Cheval from the CISA talks about the link between physical activity and cognitive health after the publication on March 2023 of a polemic meta-analysis published in *Nature Human Behavior* questioning this link. Dr Cheval describes how methodological choices done by the authors can explain the differences in the result they found in his own publication in *Scientific Report*.

https://avisdexperts.ch/videos/view/16157
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event Details</th>
<th>Location</th>
<th>Speaker/Organizer</th>
<th>Title</th>
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<tbody>
<tr>
<td>July 5</td>
<td>14:00</td>
<td>NeuroX Seminar, EPFL B3 2 B, EPFL, Lausanne</td>
<td>Join</td>
<td>Zhijian Zheng, Hon Kong Polytechnic University, China</td>
<td>Soft, Permeable Electronics: Materials, Devices, and Energy</td>
</tr>
<tr>
<td>July 6</td>
<td>11:00</td>
<td>BMI special Seminar, EPFL SV2510, EPFL, Lausanne</td>
<td>Join</td>
<td>Andrew Gordus, John Hopkins University, Baltimore, USA</td>
<td>Untangling the web of behaviors used in spider orb-weaving</td>
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<tr>
<td>July 6</td>
<td>17:00</td>
<td>HUG-NC Talks, HUG, Geneva Room 7A-2-744/745, Prevost, HUG</td>
<td>Join</td>
<td>Roger Härtl, Weill Cornell Medicine Brain and Spine Center in New York, USA</td>
<td>New technologies in spinal surgery</td>
</tr>
<tr>
<td>July 10</td>
<td>12:15</td>
<td>DNF, UNIL Petit Auditoire, UNIL, Lausanne</td>
<td>Join</td>
<td>Julie Buron, Institut de Neurobiologie de la Méditerranée (Inmed) Marseille, France</td>
<td>tba</td>
</tr>
<tr>
<td>July 11</td>
<td>17:30</td>
<td>Centre de la Mémoire, HUG, Geneva</td>
<td>Join</td>
<td>Francesca Capostoti, scientist at AC Immune, Lausanne, Switzerland</td>
<td>Discovery and initial characterization of AC1-12589, a promising PET for a-synuclein</td>
</tr>
<tr>
<td>August 31-Sept 1</td>
<td>17:30</td>
<td>Swiss society for sleep research, sleep medicine and chronobiology (SSSSC) annual meeting</td>
<td>Campus Biotech, Geneva Campus Biotech, Geneva</td>
<td>Preliminary program</td>
<td>Preliminary program</td>
</tr>
</tbody>
</table>
The risk of secondary progressive multiple sclerosis is geographically determined but modifiable.

Brain : a journal of neurology - Jun 2023

Real-time, acquisition parameter-free voxel-wise patient-specific Monte Carlo dose reconstruction in whole-body CT scanning using deep neural networks.
Salimi Y, Akhavanallaf A, Mansouri Z, Shiri I, Zaidi H
European radiology - Jun 2023

Prognostic value of imaging-based ATN profiles in a memory clinic cohort.
Peretti DE, Ribaldi F, Scheffler M, Chicherio C, Frisoni GB, Garibotto V
European journal of nuclear medicine and molecular imaging - Jun 2023

Clinical Evaluation of a Quantitative Imaging Biomarker Supporting Radiological Assessment of Hippocampal Sclerosis.
Clinical neuroradiology - Jun 2023

Risk of catheter-associated bloodstream infection by catheter type in a neonatal intensive care unit: a large cohort study of more than 1100 intravascular catheters.
Catho G, Mangeret FR, Sauvan V, Chraïti MN, Pfister R, Baud O, Harbarth S, Buetti N
The Journal of hospital infection - Jun 2023

Pretend play-based training improves some socio-emotional competences in 5-6-year-old children: A large-scale study assessing implementation.
Richard S, Clerc-Georgy A, Gentaz E
Acta psychologica - Jun 2023

Bimodal modulation of L1 interneuron activity in anterior cingulate cortex during fear conditioning.
Frontiers in neural circuits - 2023

Motor impulsivity but not risk-related impulsive choice is associated to drug intake and drug-primed relapse.
Arrondeau C, Urueña-Méndez G, Bellés L, Marchessaux F, Goutaudier R, Ginovart N
Frontiers in behavioral neuroscience - 2023

Reduction of scan duration and radiation dose in cerebral CT perfusion imaging of acute stroke using a recurrent neural network.
Physics in medicine and biology - Jun 2023
Feasibility of an observational procedure to enhance early identification of autism spectrum disorder in paediatric settings: A mixed-methods study on an Ecuadorian sample.
Buffle P, Armijos C, Naranjo A, Gentaz E
Autism : the international journal of research and practice - Jun 2023

Cortical alterations after very preterm birth and the association with socio-emotional abilities from childhood to early adolescence.
Cerebral cortex (New York, N.Y. : 1991) - Jun 2023

EXPRESS: Spontaneous Memory Strategies In A Videogame Simulating Everyday Memory Tasks.
Quarterly journal of experimental psychology (2006) - Jun 2023

Evaluation of lower limb and pelvic marker placement precision among different evaluators and its impact on gait kinematics computed with the Conventional Gait Model.
Gait & posture - Jun 2023

Unusual phosphaturic mesenchymal tumor mimicking osteoid osteoma.
Hervier E, Gorican K, Boudabbous S, Biver E, Ferrari S, Saiji E, Garibotto V, Mainta I
Radiology case reports - Aug 2023

Should we be so radical as to overlook facts?
Blay M, Duarte M, Charbon P, Poulet E, Debbané M, Weibel S, Perroud N, Speranza M
Journal of the Royal Society of Medicine - Jun 2023

Clinical investigations on anesthesia-induced developmental neurotoxicity: The knowns, the unknowns and future prospects.
Vutskits L, Davidson A
Best practice & research. Clinical anaesthesiology - Mar 2023

Asymmetry of sleep electrophysiological markers in patients with focal epilepsy.
Brain communications - 2023

Assessment of goal-directed behavior and prospective memory in adult ADHD with an online 3D videogame simulating everyday tasks.
Scientific reports - Jun 2023

Multiple timescales of learning indicated by changes in evidence-accumulation processes during perceptual decision-making.
Cochrane A, Sims CR, Bejjanki VR, Green CS, Bavelier D
NPJ science of learning - Jun 2023

Optimal cognitive offloading: Increased reminder usage but reduced proreminder bias in older adults.
Tsai PC, Scarampi C, Kliegel M, Gilbert SJ
Psychology and aging - Jun 2023

Microsynt: Exploring the syntax of EEG microstates.
Artoni F, Maillard J, Britz J, Brunet D, Lysakowski C, Tramèr MR, Michel CM
NeuroImage - Jun 2023

Patterns of amyloid accumulation in amyloid-negative cases.
Alchera N, Garibotto V, Tomczyk S, Treyer V, Hock C, Gietl AF, Lövblad KO, Scheffler M, Chincarini A, Frisoni GB, Ribaldi F
Hydrogen nanobubbles: A novel approach toward radio-sensitization agents.
Medical physics - Jun 2023

Quattrini G, Ferrari C, Pievani M, Geviti A, Ribaldi F, Scheffler M, Frisoni GB, Garibotto V, Marizzoni M
European journal of nuclear medicine and molecular imaging - Jun 2023