2026 Sino-Swiss Symposium on Brain Mapping Study

Wednesday, July 1st, General presentations, Lausanne

Large Auditorium, Dept. Fundamental Neuroscience (DNF), Bugnon 9, Lausanne

9h00 **Welcome by organizers of the Faculty of Biology & Medicine, University of Lausanne**

Jean-Yves Chatton *(Director, DNF)* Welcome and introduction DNF – 5'

Muming Poo *(Head of Delegation)* "Building Bridges in Brain Science: Opportunities for Sino-Swiss Collaboration" 30'

Claudio Bassetti *(Dean, Univ. Bern)* "The implementation of the Swiss Brain Health Plan in the International Context" (15')

9h50 **Coffee break**

10h10 **Multiscale Brain Structures: From Synapses to Circuits**

Guoqiang Bi *(Dir. Ctr Integr. Imaging, Hefei Nat. Res Ctr Phys Sci Microscale & Interdisc Ctr Brain Informat, Shenzhen Inst. Adv. Techn.)* "Cross-scale analysis of the nervous system" (25')

Benoit Zuber *(Univ. Bern)* "Decoding the architecture of neurotransmitter release with cryo-electron tomography" (25')

11h00 **Genomics, Transcriptomics and Cell-Type Atlases of the Brain**

Longqi Liu *(Exec Dean, BGI Res.)* "Advancing Brain Cell Atlas Mapping with Spatial Multi-Omics" 20'

Denis Jabaudon *(Campus Biotech, Geneva) Transcriptomics of Cortical Circuit Development* 20'

Andrea Messina *(Endocrinol., CHUV)* "From nose to puberty: building a developmental atlas of the neural network controlling reproduction" 10'

Claudia Kathe *(DNF)* "Combining spatial transcriptomics with proteomics to study extracellular matrix alterations in the spinal cord following an injury" 10'

12h00 **Lunch break – with posters**

Visit Organoid platform, organized by Guiseppe Aiello (Claudia Bagni lab) and David Pamies (Head)

13h30 **Neural circuits of Motivated behavior and Fear**

Bo Li *(Westlake/XiHu Univ.)* "Dissecting neural circuitry underlying motivated behavior & metabolic regulation" 20'

Ralf Schneggenburger *(EPFL)* "Neural circuits for fear memory and fear-related movement control *15'*

Manuel Mameli *(DNF)* "Spatiotemporal signatures of depression" 15'

14h20 **Models, Tools and Platforms for Brain Research**

Tian Xue *(Univ. Sci. Technol. China)* Light and Life - From Eye to Brain 30'

Micah Murray (CHUV-UNIL) Presentation SENSE 5'

David Pascucci *(CHUV-UNIL)* Mapping EEG dynamics to cognition and behavior 10'

Ileana Jelescu *(CHUV)*: Novel diffusion MRI approaches to map brain microstructure and activity 10'

Zhen Liu *(ION)* Gene-modified mammalian models for brain study 15'

Christophe Lamy *(UniGE)* Mapping brains of the past to find cures for the future 10'

15h45 **Tea break**

16h00 **Translational Psychiatry and Genomic Studies of Brain Disorders**

Wang Shouyan *(Dean, Fudan Univ.)* "Brain-computer interface: translation from forefront research into clinical application" 20'

Kevin Swierkosz-Lenart *(Dpt. Psychiatry)* "Interventional Psychiatry Unit and Clinical Activities" 10'

Yongyong Shi *(Acting Director and Senior Investigator, CEBSIT)*: "Molecular Insights into Schizophrenia: Mechanisms and Implications" 20'

Pierre Marquet (CNP-CHUV) Presentation of the Center for Psychiatric Neuroscience 5'

Stergios Tsartsalis *(CNP)* "Oxytocin, Microglia and Loneliness in neuropsychiatric disorders" 10'

17h10 **Info session for Day 2 and Day 3 Site Visits and Workshops for in depth collaboration discussions**

If you are interested to actively participate on days 2 and 3, please contact ron.stoop@unil.ch and register this also on https://forms.gle/MQWaf3m57SECVaNBA

Site visits and thematic collaboration workshops

Thursday, July 2nd, 9h00, Lausanne-Dorigny and Hôpital de Cery

STRUCTURE AND OBJECTIVES

- *Led by one Swiss and one Chinese chair and one rapporteur **(in bold italics)***
- Introduction and brief talks by all participants (one or two slides)
- Visit to platforms and further discussion about potential interest and collaborations.
- Each workshop will address the following questions: What do we share scientifically?", "What can we attain in 12–18 months?", "Who could lead the collaboration?", "What is the first concrete step?
- Each group will report back at the end of the day with one or two prioritized collaboration ideas to be discussed during the concluding session at the end of the day and on Friday

DORIGNY/EPFL Gathering at 9h00 in Amphimax 412/413

9h00 Multiscale Brain Structures: From Synapses to Circuits (Amphimax 412)
(Dubochet Center of Electron Microscopy/Lausanne)
***Chaired by Christel Genoud, Vassiliki Nikoletopoulou, and Guoqiang Bi (University of Science and Technology of China)**, Claudio Bagni (DNF), Cirong Liu (ION)*
***Topics**: cryo-ET, volume EM; Synaptic architecture and plasticity; autophagy and synaptic protein homeostasis; structural signatures of CNS injury and repair;*
9h00 Presentation DCI by Bertrand Beckert
9h30 Presentation Amanda Lewis, Senior Scientist
10h00 Coffee break
10h15 Site visit of DCI (in rounds, adapted to the number of participants)
11h15 Further group discussion

9h00 Models, Tools and Platforms for Brain Research (Amphimax 413, UNIL)
***Chaired by Micah Murray and Zhen Liu (ION), Ileana Jelescu (CHUV)**, Xue Tian (University of Science and Technology of China), Tilmann Achsel (DNF), Yongyong Shi (ION).*
***Topics:** Multimodal brain mapping platforms; EEG, MRI, diffusion MRI and medical imaging; AI/machine learning; marmoset brain banks and mesoscopic imaging;*
9h00 Introduction organizers, brief presentation of aims of workshop
9h15 Individual presentations participants
10h15 Coffee break
10h30 Discussion about potential collaborations

12h00 Lunch at Amphimax (1st floor, tickets provided by Ulrike Toepel)

13h30 Neural circuits and mechanisms (BMI, EPFL), (SV2510 & SV3615)
***Chaired by Ralf Schneggenburger (EPFL-BMI) and Bo Li (XiHu University)**, Muming Poo (ION), Ling Li (ION), Carl Petersen (EPFL-BMI), Gioele La Manno (EPFL-BMI)*
***Topics:** Neural Circuits of motivated behavior; optogenetic/calcium-imaging approaches; spatial transcriptomics*
13h30 Room SV2510. Welcome, and brief introduction to the BMI (Ralf Schneggenburger)
13h40 **Site visit** – Brain Mind Institute (BMI)
3rd floor in vivo activities (20 '): Carl Petersen (BMI-LSENS) Olexiy Kochubey (LSYM)
2nd floor in vitro activities (10'): Ralf Schneggenburger (BMI-LSYM); Rodrigo Perin (LNMC)
14h10 Room SV2510: Zoom Presentation by Gioele La Manno (BMI-UPLaManno)
14h25 Questions
14h30 Round able Discussion: Integrating Spatial Transcriptomics into neurocircuit research
15h00 **Coffee Break**
15h20 Room SV3615 Continuation of Discussion:
16h15 Departure for Amphimax 412

13h30 <u>Genomics, Transcriptomics and Cell-Type Atlases of the Brain (Amphimax 413)</u>

(Transcriptomics platform UNIL/EPFL, Dorigny, Lausanne)

Chaired by Denis Jabaudon (UNIGE), Claudia Kathe (UNIL) and Yidi Sun (ION), *Claudia Bagni (DNF).*

Topics: *Spatial multi-omics and brain cell atlases; developmental and disease-related cell-type trajectories; spinal cord repair and CNS injury atlases; hypothalamic circuits; epigenetic and gene-editing tools for functional validation*

13h30 Introduction organizers, brief presentation of aims of workshop
13h45 Individual presentations participants
14h30 Coffee break
14h45 Discussion about potential collaborations

HOPITAL DE CERY, Dept. Psychiatry, CHUV-UNIL Translational Psychiatry,

9h00 Gathering at reception of Hôpital de Cery

9h00 <u>Interventional psychiatry and Brain-computer interface (Service of Psychiatry of Old Age)</u>

Chaired by Kevin Swierkosz-Lenart (CHUV) and Shouyan Wang (Fudan University)*, Armin von Gunten, Pierre Vandel, Yi Li (ION), Tom Hutson (Campus Biotech),*

Topics: *Neuromodulation Transcranial magnetic stimulation (TMS), Electro Convulsive Therapy, (ECT), transcranial Direct Current Stimulation (tDCS), ketamine and Deep Brain Stimulation (DBS)*

9h00 Visit of Unit of Interventional Psychiatry
10h00 Coffee/tea in the Grand Salon, bâtiment des Cèdres,
10h15 Discussion about possible collaborations

12h00 <u>Lunch break (cafeteria Hôpital de Cery)</u>

13h30 Translational models for the study of psychiatric and neurodegenerative diseases from cellular models to in vivo imaging (Centre for Psychiatric Neuroscience, Hôpital de Cery)

Chaired by Stergios Tsartsalis, Nicolas Toni, Sylvain Perriot (CNP, CHUV) and Haibo Zhou (ION)*, , Toko Kikuchi, Kevin Richetin (CNP) and Christophe Lamy (HUG)*

Topics: *Loneliness and immune regulation in neurodegenerative disorders, microglia and astrocytic regulations, genomics and multi-omics of schizophrenia, depression, aging, dementia and neurogenesis, psychiatric biobanks and cellular phenotyping; tissue clearing and Geneva 10'000 Psychiatric Patients Brain Bank.*

13h30 Site visit Centre for Psychiatric Neuroscience brief presentation of aims of workshop
14h00 Individual presentations participants, Seminar room, first floor CNP
15h00 Tea break
15h15 Discussion about potential collaborations
16h00 Departure for Amphimax 412

16h30 AMPHIMAX 412: General gathering and reporting by chairs

17h30 Buffet outside Amphimax, Campus Dorigny

Collaboration Tools, Outreach and Conclusions

Friday, July 3rd, EPFL Room, Campus Biotech, Geneva

9h45 **Coffee Reception**

10h00 **Welcome by organizers** hosted by Christian Lüscher, Synapsy Coordinator

10h15 **Presentation of the Synapsy Center** Outlook for Translational Neuroscience

10h30 **Presentation of the Wyss Center/Lighthouse Partnership** – W.J Neumann

10h45 **Scientific Presentation -** Marie Schaer

11h00 **Collaborations opportunities, tools and funding instruments -** Anthony Holtmaat

- **Academic exchanges and training**: *joint courses, MSc student exchanges, PhD co-supervisions, PI exchange visits*
- **Funding instruments**: *Swiss Governmental Excellence PhD Scholarships (ESKAS) & Chinese equivalent, Swiss and Chinese National Science Foundation bilateral scholarship agreements, Swiss private foundations (Synapsis, Neurona), Swiss industry scholarship (Innosuisse), European funding (ERC), other potential sources-*

11h45 **Scientific Presentation -** Prof. Daniel Huber

12h15 **Open discussion: Emerging collaborative projects from Day 2**

- Ethical guidelines for animal and human subject research
- Data exchange formats, data protection and governance
- AI tools and implementation strategies
- Swiss-Chinese complementarities and shared interests
- Potential additional partners: GASA Academy and Swiss Brain Health Plan

12:45 **Lunch -** Room B1-06 *(hosted by Synapsy)*

13:50 **Campus Biotech Platform Tour**

13h50 – 14h15 Light Sheet Microcopy Platform B1-06. Stéphane Pagès and Alice Silvestre

14h20 - 14h45 MRI platform -H8 – Olivier Reynoud

14h50 -15h15 AI Clinical Pole (HUG) B2-00 Stefan Kaiser

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15:25 **Wrap up and potential outreach to other programs**

- Future outlook and next steps

15h45-17h30 Gesda

https://www.gesda.global/ Neuroscience and Diplomacy

2026 Sino-Swiss Symposium on Brain Mapping Study

Speaker and Chinese Delegation Background Notes with Contact Info and Website Links

Welcome and strategic context

Jean-Yves Chatton — *Welcome and introduction DNF*

Jean-Yves Chatton is Professor and Director of the Department of Fundamental Neurosciences at the University of Lausanne. His research examines neuroglia metabolic interactions, with emphasis on neuron-glia communication, bioenergetics and ion homeostasis in the healthy and diseased brain. He also has long-standing expertise in cellular fluorescence imaging and imaging-facility development. His background anchors the DNF contribution in cellular physiology, metabolism and brain-imaging platforms. **Contact info:** Jean-Yves.Chatton@unil.ch. **Website:** https://dnf-unil.ch/group/imaging-the-neuroglia-metabolic-interplay/member/jean-yves-chatton.

Muming Poo — *Building Bridges in Brain Science: Opportunities for Sino-Swiss Collaboration*

Mu-Ming Poo is a leading neuroscientist associated with the Institute of Neuroscience, the CAS Center for Excellence in Brain Science and Intelligence Technology, and the International Center for Primate Brain Research in Shanghai. His scientific work spans neural development, synaptic plasticity and activity-dependent circuit modification. His leadership in Chinese and international neuroscience gives him a central role in building collaborative brain-science programs across institutions and countries. **Contact info:** muming.poo@icpbr.ac.cn. **Website:** http://english.cebsit.cas.cn/lab/poomuming/research/.

Claudio Bassetti — *The implementation of the Swiss Brain Health Plan in the International Context*

Claudio L. A. Bassetti is a neurologist, Dean of the Faculty of Medicine at the University of Bern, and Chair of the Swiss Brain Health Plan. His clinical and scientific work covers sleep medicine, stroke, narcolepsy and broader brain-health questions. His current leadership links neurology, prevention, education and policy, with the aim of improving brain health across the life course and connecting Swiss priorities to international initiatives. **Contact info:** claudio.bassetti@unibe.ch. **Website:** https://www.neuroscience.unibe.ch/about_us/personen/prof_dr_bassetti_claudio/.

Multiscale Brain Structures: From Synapses to Circuits

Guoqiang Bi — *Cross-scale analysis of the nervous system*

Guoqiang Bi is a professor and center director whose work links biophysics, neurobiology and advanced imaging. He is internationally known for early work on spike-timing-dependent plasticity and for more recent efforts to develop high-resolution methods for nervous-system mapping. His research connects synaptic mechanisms, ultrastructure and larger circuit organization, providing a cross-scale view from molecules and synapses to brain architecture. **Contact info:** gqbiustc@gmail.com. **Website:** https://bcbdi.siat.ac.cn/siat/2025-02/12/article_20250212011910162 05.html.

Benoît Zuber — *Decoding the architecture of neurotransmitter release with cryo-electron tomography*

Benoît Zuber heads the Microscopic Anatomy and Structural Biology section at the University of Bern. His group uses cryo-electron microscopy and cryo-electron tomography to study synapses at nanometer resolution. The work focuses on vesicle organization, active-zone architecture and structural intermediates of neurotransmitter release. This research connects molecular ultrastructure with synaptic function and provides a structural basis for understanding communication between neurons. **Contact info:** benoit.zuber@unibe.ch. **Website:** https://www.anatomie.unibe.ch/about_us/team/detail/index_eng.php?id=329.

Genomics, Transcriptomics and Cell-Type Atlases of the Brain

Longqi Liu — *Advancing Brain Cell Atlas Mapping with Spatial Multi-Omics*

Longqi Liu is Executive Dean and researcher at BGI-Research, where his work centers on single-cell, spatial and spatiotemporal multi-omics technologies. He has been closely associated with the development and application of Stereo-seq, a high-resolution spatial transcriptomics platform. His research is highly relevant to brain cell atlas mapping because it combines molecular identity with anatomical location, including applications to mammalian and primate brain organization. **Contact info:** liulongqi@genomics.cn. **Website:** https://scholar.google.com/citations?user=TfWzqoMAAAAJ&hl=en.

Denis Jabaudon — *Transcriptomics of Cortical Circuit Development*

Denis Jabaudon is Professor at the University of Geneva and leads a group on developmental neurobiology and plasticity. His research investigates how genetic programs specify thalamic and neocortical neuron subtypes and how these cells assemble into modality-specific circuits. By combining in vivo genetics, transcriptomics, structural analysis and electrophysiology, his work links neuronal identity to cortical circuit formation and developmental plasticity. **Contact info:** denis.jabaudon@unige.ch. **Website:** https://neurocenter-unige.ch/research-groups/denis-jabaudon/.

Andrea Messina — *From nose to puberty: building a developmental atlas of the neural network controlling reproduction*

Andrea Messina works at the interface of neuroendocrinology, genetics and reproductive biology in the CHUV Service of Endocrinology, Diabetology and Metabolism. His research focuses on the development of gonadotropin-releasing hormone neurons, which originate near the nose, migrate into the brain and mature into networks controlling puberty and fertility. His work combines developmental trajectories, transcriptomics and human endocrine phenotypes to map reproductive neural circuits. **Contact info:** Andrea.Messina@unil.ch. **Website:** https://applicationspub.unil.ch/interpub/noauth/php/Un/UnPers.php?LanCode=8&PerNum=1168211.

Claudia Kathé — *Combining spatial transcriptomics with proteomics to study extracellular matrix alterations in the spinal cord following an injury*

Claudia Kathé is Assistant Professor at the DNF, University of Lausanne, where she leads work on spinal circuits in sensorimotor disorders. Her research identifies spinal neuron populations and circuit mechanisms involved in recovery after spinal cord injury. She combines gene therapy, circuit mapping and molecular profiling approaches. In relation to injury biology, her work addresses how local tissue remodeling, including extracellular-matrix changes, shapes repair and functional recovery. **Contact info:** claudia.kathe@unil.ch. **Website:** https://dnf-unil.ch/group/spinal-circuits-in-sensorimotor-disorders/member/kathe-claudia-kathe.

Neural circuits of motivated behavior and fear

Bo Li — *Dissecting neural circuitry underlying motivated behavior and metabolic regulation*

Bo Li leads research at Westlake/XiHu University on the cellular and circuit mechanisms that regulate motivated behavior. His work examines how neural systems encode reward, aversion, internal state and goal-directed action. This research links behavior with metabolic and homeostatic regulation, addressing how brain circuits integrate physiological needs with decision-making, reinforcement and adaptive behavioral responses. **Contact info:** libo@westlake.edu.cn. **Website:** https://en.wllsb.edu.cn/research/researchTeam/202308/t20230821_31448.shtml.

Ralf Schneggenburger — *Neural circuits for fear memory and fear-related movement control*

Ralf Schneggenburger leads the Laboratory of Synaptic Mechanisms at EPFL, where his group studies how neuronal activity gives rise to perception and purposeful behavior. The lab investigates synaptic plasticity and circuit mechanisms of fear conditioning using optogenetics, viral tracing, functional circuit mapping and behavior. Key interests include the amygdala, insular cortex and pathways that connect conditioned and unconditioned sensory information to fear memory and movement control. **Contact info:** ralf.schneggenburger@epfl.ch. **Website:** https://www.epfl.ch/labs/lsym/.

Manuel Mameli — *Spatiotemporal signatures of depression*

Manuel Mameli is Professor at the DNF, University of Lausanne, and leads the M-Lab on synapses, circuits and affective states. His laboratory studies how animals shift between instinctive and learned behaviors, with emphasis on reward, avoidance, negative affect and maladaptive plasticity. The work is directly relevant to psychiatric disorders such as addiction and depression and seeks circuit-level explanations for affective brain states across time and space. **Contact info:** Manuel.Mameli@unil.ch. **Website:** https://dnf-unil.ch/group/m-lab/member/mameli-manuel-mameli

Models, Tools and Platforms for Brain Research

Tian Xue — *Light and Life - From Eye to Brain*

Tian Xue is Chair Professor at the University of Science and Technology of China and Deputy Director of the National Key Laboratory of Visual Health. His research focuses on molecular, cellular and circuit mechanisms of light perception, visual processing and photophysiological function. His work also addresses strategies for vision restoration and enhancement, using the eye as an entry point to understand how sensory information is transformed by neural circuits in the brain. **Contact info:** xuetian@ustc.edu.cn. **Website:** https://faculty.ustc.edu.cn/xuetian/en/index.htm.

Micah Murray — *Presentation SENSE*

Micah Murray is founding director of the Laboratory for Investigative Neurophysiology and Director of SENSE activities in perception and cognition. His work investigates spatial and temporal brain dynamics underlying sensory, perceptual and cognitive functions in healthy and clinical populations. The methods include psychophysics, behavior, eye tracking, computational modeling, EEG/electrical neuroimaging, TMS and MRI, linking systems neuroscience with clinical translation and rehabilitation. **Contact info:** micah.murray@chuv.ch. **Website:** https://www.the-sense.ch/research-and-innovation/perception-cognition/multisensory-processes/micah-murray/?lang=en.

David Pascucci — *Mapping EEG dynamics to cognition and behavior*

David Pascucci heads the Psychophysics and Neural Dynamics Lab at UNIL and CHUV. His group studies human perception and cognition by combining psychophysics, computational modeling and advanced imaging methods. A central focus is how contextual information shapes perceptual decision-making and how neural activity fluctuates across time and individuals. His work maps EEG dynamics, source-level activity and brain-network organization onto cognition and behavior. **Contact info:** david.pascucci@chuv.ch. **Website:** https://www.chuv.ch/fr/rad/rad-home/recherche/groupes-de-recherche/psychophysics-and-neural-dynamics-lab.

Ileana Jelescu — *Novel diffusion MRI approaches to map brain microstructure and activity*

Ileana Jelescu is a laboratory head in the CHUV Radiodiagnostic and Interventional Radiology Service and the PET3 Radiology Research Center. Trained in physics, biomedical engineering and medical physics, she specializes in MRI physics, microstructure imaging and neuroimaging. Her research develops and applies diffusion MRI approaches that infer tissue organization and activity-related changes beyond the resolution of conventional imaging, with strong relevance for human brain mapping. **Contact info:** ileana.jelescu@chuv.ch. **Website:** https://www.chuv.ch/fr/rad/rad-home/le-service-en-bref/nos-collaborateurs/cadres-scientifiques/prof-i-jelescu.

Zhen Liu — *Gene-modified mammalian models for brain study*

Zhen Liu is a principal investigator developing gene-modification technologies and genetic tools for mammalian and primate brain research. His background combines neuroscience, reproductive engineering, stem-cell methods, somatic cell nuclear transfer and genetic-tool development. His work supports the creation of disease models and experimental systems in which brain circuits, cell types and molecular mechanisms can be tested with greater precision. **Contact info:** zhen.liu@icpbr.ac.cn. **Website:** https://english.cebsit.cas.cn/lab/liuzhen/research/.

Christophe Lamy — *Mapping brains of the past to find cures for the future*

Christophe Lamy leads Lamylab at the University of Geneva, which studies neurobiological mechanisms underlying emotions, cognition and behavior. The lab is interested in how neural circuits interact with body physiological states and how these interactions contribute to brain disorders. In relation to brain mapping, his work connects human tissue resources, circuit biology and disease mechanisms, using information from past brain material to support future therapeutic understanding. **Contact info:** christophe.lamy@unige.ch. **Websites:** https://www.unige.ch/medecine/Lamylab/; https://wysscenter.ch/project/finding-cures-for-the-future-in-the-brains-of-the-past/.

Translational Psychiatry and Genomic Studies of Brain Disorders

Shouyan Wang — *Brain-computer interface: translation from forefront research into clinical application*

Shouyan Wang is a tenured professor at Fudan University's Institute of Science and Technology for Brain-Inspired Intelligence, working in neuroengineering and digital medicine. His research covers neural information processing, neural modeling, deep brain stimulation and clinically driven interdisciplinary technologies. His work is particularly relevant to brain-computer interfaces and intelligent neuromodulation, where engineering tools are developed for clinical applications in movement disorders, pain and mental health. **Contact info:** shouyan@fudan.edu.cn. **Website:** https://istbi.fudan.edu.cn/info/1774/4601.htm.

Kevin Swierkosz-Lenart — *Interventional Psychiatry Unit and Clinical Activities*

Kevin Swierkosz-Lenart is an associate physician involved in the CHUV Interventional Psychiatry Unit. The unit complements psychiatric and psychotherapeutic care with interventional treatments for difficult-to-treat disorders, including electroconvulsive therapy, repetitive transcranial magnetic stimulation and ketamine infusions. His clinical work is situated at the interface of psychiatry, neuromodulation and translational care, with a practical focus on patient selection, treatment pathways and outcome-oriented implementation. **Contact info:** kevin.swierkosz-lenart@chuv.ch. **Website:** https://www.invivomagazine.ch/eclairages/eclairages-detail/soigner-la-depression-par-lelectricite.

Yongyong Shi — *Molecular Insights into Schizophrenia: Mechanisms and Implications*

Yongyong Shi is Senior Investigator and Acting Director at CEBSIT/ION, working on molecular mechanisms of psychiatric disorders. His research integrates genetics, genomics, transcriptomics, epigenomics and other molecular datasets to understand schizophrenia and related conditions. This work is important for identifying disease mechanisms, biological pathways and translational targets, particularly in disorders that require large cohorts, careful phenotyping and multi-omic validation. **Contact info:** shiyongyong@ion.ac.cn. **Website:** https://english.cebsit.cas.cn/lab/shiyongyong_30468/research/.

Pierre Marquet — Presentation of the Centre for Psychiatric Neuroscience

Pierre Marquet is Professor, physicist and physician and Head of Service of the Centre de Neurosciences Psychiatriques at the CHUV–University of Lausanne. His research focuses on the pathogenesis and early detection of major psychiatric disorders with a neurodevelopmental component, including schizophrenia, bipolar disorder and severe recurrent depression. He has particular expertise in neurophotonics, digital holographic microscopy and biomarker discovery, bridging clinical psychiatry, cellular phenotyping and advanced optical imaging. His background anchors the CNP contribution in translational psychiatry, neurodevelopmental mechanisms and innovative diagnostic technologies. **Contact info:** Pierre.Marquet@chuv.ch. **Website:** https://www.chuv.ch/fr/psychiatrie/dp-home/recherche/centres-et-unites-de-recherche/centre-de-neurosciences-psychiatriques-cnp/unite-mixte-internationale.

Stergios Tsartsalis — *Oxytocin, Microglia and Loneliness in neuropsychiatric disorders*

Stergios Tsartsalis is an SNSF Ambizione Lecturer at the Centre for Psychiatric Neuroscience, CHUV, and a senior consultant psychiatrist with expertise in molecular neuroimaging and neuroinflammation. His work connects glial biology, PET imaging, immune mechanisms and neuropsychiatric disease, including Alzheimer's disease and psychiatric symptoms. His current interests align oxytocin biology, microglia and loneliness with translational models of psychiatric and neurodegenerative disorders. **Contact info:** Stergios.Tsartsalis@unil.ch. **Website:** https://www.unige.ch/medecine/psyat/groupes-de-recherche/983millet/membres-du-groupe/stergios-tsartsalis

Other participants in the Chinese Delegation

Wang Yan — *CAS Shanghai Branch leadership and institutional coordination*

Wang Yan is Deputy Director of the Chinese Academy of Sciences Shanghai Branch and a member of its Party Leadership Group. Her role places her at the level of regional CAS leadership, helping coordinate the network of CAS institutes connected to the Shanghai Branch and supporting institute-level strategy, talent development, scientific governance and inter-institutional cooperation. Her background anchors the Chinese delegation's contribution in institutional leadership, CAS-wide coordination and the strategic linking of research institutes, universities and national science priorities. **Contact info:** wangyan@shb.ac.cn. **Website:** https://english.shb.cas.cn/au/ps/.

Haibo Zhou — *Genome editing and brain-disease intervention*

Haibo Zhou is a Principal Investigator at CEBSIT, Chinese Academy of Sciences, where his laboratory develops genome-editing strategies and delivery systems for the study and treatment of brain disorders. His work combines molecular engineering, gene therapy concepts and preclinical disease models, with particular relevance for neurological intervention. His background anchors the Shanghai contribution in therapeutic genome editing, delivery technology and disease-oriented experimental tools. **Contact info:** hbzhou@ion.ac.cn. **Website:** https://english.cebsit.cas.cn/lab/zhouhaibo/research/.

Changyang Zhou — *Epigenetic editing and functional genomics*

Changyang Zhou is a Principal Investigator at CEBSIT, Chinese Academy of Sciences. His research develops CRISPR-based and epigenetic editing tools to modulate gene function and gene expression, with applications in functional screening and perturbation of biological systems. His background anchors the Shanghai contribution in programmable gene regulation, functional genomics and next-generation molecular tools for neuroscience. **Contact info:** zhouchangyang@ion.ac.cn. **Website:** https://english.cebsit.cas.cn/lab/zhouchangyang/research/.

Cirong Liu — *Translational brain imaging and marmoset brain mapping*

Cirong Liu leads work on translational brain imaging at CEBSIT, Chinese Academy of Sciences. His research focuses on multi-modal brain mapping of the common marmoset, including large-scale network development, brain dynamics and social-behavior-related circuitry. His background anchors the Shanghai contribution in comparative primate brain imaging, marmoset atlases and translational systems neuroscience. **Contact info:** crliu@ion.ac.cn. **Website:** http://english.cebsit.cas.cn/lab/liucirong/research/.

Yidi Sun — *Multi-omic data analysis and brain cell atlases*

Yidi Sun is a Principal Investigator at the Center for Excellence in Brain Science and Intelligence Technology, Chinese Academy of Sciences, where Sun leads work on multi-omic data analysis for brain cell atlas research. Her research focuses on integrating single-cell, spatial-transcriptomic and other omics datasets to define brain cell types, map their spatial organization and build reference atlases of the primate brain. Sun's background anchors the Chinese contribution in computational multi-omics, brain-cell taxonomy, data integration and atlas-based approaches to comparative and translational neuroscience. **Contact info:** ydsun@ion.ac.cn, **Website:** https://english.cebsit.cas.cn/lab/sunyidi_1/research/

Yi Li — *CNS injury and functional reconstruction*

Yi Li is a Principal Investigator at CEBSIT, Chinese Academy of Sciences, heading research on CNS injury and functional reconstruction. His work focuses on spinal cord injury, stroke, traumatic brain injury and the neural mechanisms that support recovery of function. His background anchors the Shanghai contribution in neural repair, rehabilitation mechanisms and translational approaches to restoring nervous-system function. **Contact info:** liyi@ion.ac.cn. **Website:** http://english.cebsit.cas.cn/lab/liyi/research/.

Li Ling — *Primate neurotechnology and cell-type-specific brain tools*

Li Ling is a Young Investigator at the Center for Excellence in Brain Science and Intelligence Technology, Chinese Academy of Sciences. Her work is linked to the development of advanced experimental tools for primate brain research, including approaches for cell-type-specific targeting, viral-vector-based labeling and manipulation, and translational platforms for studying neural circuits in non-human primates. Li Ling's background anchors the Chinese contribution in next-generation primate neurotechnology, targeted circuit access and experimental tool development for brain research. **Contact info:** lli2020@ion.ac.cn. **Website:** https://cebsit.cas.cn/sourcedb/zw/rck/lz_154495/202109/t20210909_6199470.html.

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