MEETING OF THE NEUROLEMAN NETWORK AND DOCTORAL SCHOOLS (NLN)
7 MAY 2021

Organizing committee: Claudia Bagni (UNIL) & Ron Stoop (CHUV)
Coordination: Ulrike Toepel

ZOOM CONNECTION: HTTPS://UNIL.ZOOM.US/J/95943799385
(MEETING ID: 959 4379 9385)

09:30 – 11:00 ***ZOOM***	**OPENING** WITH RON STOOP (CNP-CHUV) AND CLAUDIA BAGNI (DNF-UNIL) FOLLOWED BY **KEYNOTE LECTURE OF BICE CHINI (CNR, INSTITUTE OF NEUROSCIENCE, MILAN, ITALY)** **OXYTOCIN IN THE SOCIAL BRAIN: THE CRITICAL CONTRIBUTIONS OF ANIMAL AND NON-ANIMAL RESEARCH** AMONG THE SEVERAL NEUROBIOLOGICAL SYSTEMS IMPLICATED IN SHAPING SOCIAL BEHAVIOR, OXYTOCIN HAS BEEN FIRMLY ESTABLISHED AS A MASTER REGULATOR OF THE SOCIAL BRAIN. THIS HAS LED TO PROPOSE OXYTOCIN AS A DRUG TO AMELIORATE SOCIAL DEFICITS IN A NUMBER OF NEURODEVELOPMENTAL AND NEUROPSYCHIATRIC CONDITIONS INCLUDING AUTISM. EVEN MORE IMPORTANTLY, OXYTOCIN HAS BEEN SHOWN TO REGULATE KEY NEURODEVELOPMENTAL EVENTS IN EARLY POST-NATAL LIFE, SUGGESTING THAT THIS PEPTIDE CAN MODIFY THE ONSET AND PROGRESSION OF AUTISTIC-LIKE MANIFESTATIONS. HOWEVER, TO FULLY EXPLOIT THE POTENTIAL THERAPEUTIC EFFECTS OF OXYTOCIN IN NEURODEVELOPMENTAL DISORDERS, WE NEED TO IDENTIFY THE MOLECULAR TARGETS AND TIME WINDOW OF ACTION OF OXYTOCIN IN THE BRAIN. IN THIS PRESENTATION, WE WILL DISCUSS THE MOLECULAR, CELLULAR AND BEHAVIORAL ACTIONS OF OXYTOCIN IN THE BRAIN, WITH A SPECIAL FOCUS ON THE ROLE OF ANIMAL AND NON-ANIMAL RESEARCH METHODOLOGIES. FACTS AND FIGURES ABOUT ANIMAL EXPERIMENTATION WILL BE PRESENTED TO STIMULATE DISCUSSION ON ANIMAL TESTING ETHICS AND REGULATIONS.
11:00 – 13:00 ***GATHER.TOWN*** ***TOPIC ROOMS***	**DATA BLITZ TOPIC DISCUSSIONS WITH LEMANIC PHD CANDIDATES (SEE PAGE 3FF AND ABSTRACT BOOK FOR DETAILS)** **ROOM A:** BEHAVIOR, COGNITION, NEUROIMAGING (MODERATOR: ANTOINE LUTTI, CHUV) **ROOM B:** COMPUTATIONAL NEUROSCIENCE & TECHNIQUES (MODERATOR: ALEXANDER MATHIS, EPFL) **ROOM C:** DEVELOPMENTAL NEUROSCIENCE (MODERATOR: GIOELE LA MANNO, EPFL) **ROOM D:** MOLECULAR AND CELLULAR NEUROSCIENCE (MODERATOR: YOUNA VANDELE, CHUV) **ROOM E:** NEUROLOGICAL AND PSYCHIATRIC CONDITIONS (MODERATOR: ANNA GAGLIANESE, CHUV) **ROOM F:** SENSORY AND MOTOR SYSTEMS (MODERATOR: ANGELICA PEREZ FORNOZ, HUG) **ROOM G:** SIGNALING, EXCITABILITY AND NEURON-GLIA INTERACTIONS (MODERATOR: LAURA FERNANDEZ, UNIL)
13:00 – 14:30 ***GATHER.TOWN*** ***AUDITORIUM***	**SCIENCE CAREERS LUNCH ROUNDTABLE (SEE PAGE 6FF FOR BIOSKETCHES)** YOU ARE INVITED TO ASK QUESTIONS TO NEUROLEMAN PIS WHO HAVE BEEN IN YOUR SHOES NOT SO LONG AGO! WONDER HOW THEY OBTAIN FUNDING, HOW THEY PRESENT THEIR WORK, HOW THEY NETWORK? YOU WILL SOON KNOW BY ASKING • MEIKE RAMON (ASSISTANT PROFESSOR, SNF PRIMA FELLOW, UNIFR) • ROSA CHIARA PAOLICELLI (ASSISTANT PROFESSOR, UNIL & ERC STARTING GRANT HOLDER) • THIBAUD GRUBER (ASSISTANT PROFESSOR, SNF ECCELLENZA FELLOW, UNIGE) • ANN-MARIE DE LANGE (SNF AMBIZIONE FELLOW, CHUV) • MACKENZIE MATHIS (ASSISTANT PROFESSOR, BERTARELLI FOUNDATION CHAIR @ EPFL)

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14:00 – 15:30 ***GATHER.TOWN*** ***POSTER HALL***	POSTER SESSION **WITH LEMANIC PHD CANDIDATES (SEE PAGE 3FF AND ABSTRACT BOOK FOR DETAILS)** *14:00 – 14:45 EVEN NUMBERS* *14:45 – 15:30 UNEVEN NUMBERS*
15:00 – 15:30 ***GATHER.TOWN*** ***AUDITORIUM AND BEYOND***	**MOOD-LIFTING SESSION WITH SAMUEL LAGIER (SAMSPEAKSSCIENCE) PART I** CONNECT WITH YOUR PEERS IN A PLAYFUL AND RELAXED MANNER, GET TO KNOW SOME NEW PEOPLE!
15:30 – 16:30 ***ZOOM***	**ROUNDTABLE WITH PETER STERN (SCIENCE)** **CHANGES IN MANUSCRIPT SUBMISSION PATTERN IN 2020** SEPARATING THE SIGNAL FROM THE NOISE. WHAT HAPPENS WHEN SUDDENLY SEVERAL THOUSAND RESEARCHERS AROUND THE WORLD ARE WORKING IN THEIR HOME OFFICE AND CAN'T PERFORM EXPERIMENTS? WHICH CHANGES IN THEIR BEHAVIOUR ARE ACUTE ADAPTATIONS TO NEW CIRCUMSTANCES AND WHICH CHANGES EXACERBATE SECULAR TRENDS THAT WERE ALREADY UNDER WAY?
16:30 – 17:00 ***ZOOM***	**CLOSING** INCL. ANNOUNCEMENT OF WINNERS OF THE • AWARD OF THE AMICITIA FOUNDATION SUPPORTING GRADUATES FROM THE NEUROSCIENCE DOCTORAL PROGRAMS IN THE LEMANIC AREA WHO ARE CONTINUING THEIR SCIENTIFIC CAREER IN AN INTERNATIONAL ACADEMIC INSTITUTION. • AWARD OF THE BIAGGI DE BLASYS FOUNDATION FOR THE BEST THESIS IN NEUROSCIENCE IN THE LEMANIC AREA DEFENDED IN 2020 • JEAN FALK-VAIRANT AWARDS FOR THE BEST NLN ORAL OR POSTER PRESENTATIONS. • NLN AWARDS FOR THE BEST DATA BLITZES IN THE NLN'21.
17:00 – OPEN END IN GATHER.TOWN	MEET YOUR PEERS IN NLN GATHER.TOWN OVER A VIRTUAL SNACK AND DRINK, MORE POSTER DISCUSSIONS, NETWORKING IDEAS AND MORE
17:00 – 17:30 ***GATHER.TOWN*** ***AUDITORIUM AND BEYOND***	**MOOD-LIFTING SESSION WITH SAMUEL LAGIER (SAMSPEAKSSCIENCE) PART II** CONNECT WITH YOUR PEERS IN A PLAYFUL AND RELAXED MANNER, GET TO KNOW SOME NEW PEOPLE!

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List of Data Blitz Short Talks ("T" with topic room indication) and Posters ("P" all in poster hall)

- Please see abstract book for more details –

https://drive.switch.ch/index.php/s/ulyI3dVtYkoJQKS

Category	Presenter	Poster (P) or Talk (T) number
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Behaviour, Cognition, Neuroimaging	**Atanasova T**	**A-T1**
Behaviour, Cognition, Neuroimaging	**Belles L**	**P2**
Behaviour, Cognition, Neuroimaging	**Bhadra K**	**A-T2**
Behaviour, Cognition, Neuroimaging	**Bochud E**	**P3**
Behaviour, Cognition, Neuroimaging	**Celen Z**	**P4**
Behaviour, Cognition, Neuroimaging	**Cretton A**	**P6**
Behaviour, Cognition, Neuroimaging	**Di Muccio F**	**P7**
Behaviour, Cognition, Neuroimaging	**Erdemli A**	**P8**
Behaviour, Cognition, Neuroimaging	**Grosu C**	**A-T3**
Behaviour, Cognition, Neuroimaging	**Guyoton M**	**P9**
Behaviour, Cognition, Neuroimaging	**Gyorgy D**	**P10**
Behaviour, Cognition, Neuroimaging	**Jaquerod M**	**P11**
Behaviour, Cognition, Neuroimaging	**KONIK S**	**P12**
Behaviour, Cognition, Neuroimaging	**Leupin V**	**A-T4**
Behaviour, Cognition, Neuroimaging	**Moyne M**	**A-T5**
Behaviour, Cognition, Neuroimaging	**Najberg H**	**A-T6**
Behaviour, Cognition, Neuroimaging	**Nguyen A**	**NA**
Behaviour, Cognition, Neuroimaging	**Qiao-Tasserit E**	**A-T7**
Behaviour, Cognition, Neuroimaging	**Rafi H**	**P14**
Behaviour, Cognition, Neuroimaging	**Raynal E**	**P15**
Behaviour, Cognition, Neuroimaging	**Renfer JF**	**P16**
Behaviour, Cognition, Neuroimaging	**Richard J**	**P17**
Behaviour, Cognition, Neuroimaging	**Sooter N**	**P18**
Behaviour, Cognition, Neuroimaging	**Spampatti T**	**A-T8**
Behaviour, Cognition, Neuroimaging	**Tan M**	**A-T9**
Behaviour, Cognition, Neuroimaging	**Trofimova O**	**P19**
Behaviour, Cognition, Neuroimaging	**Urueña G**	**P20**
Behaviour, Cognition, Neuroimaging	**Vassiliadis P**	**A-T10**
Behaviour, Cognition, Neuroimaging	**Wicht W**	**A-T11**
Behaviour, Cognition, Neuroimaging	**Yanguez Escalera M**	**P21**
Behaviour, Cognition, Neuroimaging	**Monnor T**	**P22**
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Computational Neuroscience & Techniques	**Patel N**	**B-T3**

Computational Neuroscience & Techniques	**Raynaud Q**	**B-T4**
Computational Neuroscience & Techniques	**Riveland R**	**B-T5**
Computational Neuroscience & Techniques	**Rué Queralt J**	**B-T6**
Computational Neuroscience & Techniques	**Salem Garcia N**	**B-T7**
Computational Neuroscience & Techniques	**Stoffl L**	**B-T8**
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Development	**de Oliveira Figueiredo E**	**C-T1**
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Development	**Gomez Teijeiro L**	**P28**
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Development	**Lopes A**	**P29**
Development	**Robain F**	**P30**
Development	**Solanelles Farré L**	**P31**
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Molecular and Cellular Neuroscience	**Llobet Rosell A**	**P39**
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Neurological or Psychiatric Conditions	**Guiraud L**	**P45**
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Neurological or Psychiatric Conditions	**Padée A**	**E-T7**
Neurological or Psychiatric Conditions	**Duarte-Azevedo M**	**E-T8**
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Sensory and Motor Systems	**Cherrad N**	**F-T2**
Sensory and Motor Systems	**Konnova E**	**NA**
Sensory and Motor Systems	**Lee KS**	**F-T3**
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Sensory and Motor Systems	**Rey E**	**F-T5**
Sensory and Motor Systems	**Sipione R**	**P47**
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Sensory and Motor Systems	**Zeugin D**	**F-T7**
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The meeting is kindly supported by:

Fonds Jean Falk-Vairant

Association Amicitia

SCIENCE CAREERS LUNCH ROUNDTABLE – BIOSKETCHES -

Prof. Meike Ramon, PhD
University of Fribourg
Department of Psychology
Twitter: @MeikeRamon
Web: **www.afclab.org**

Meike Ramon is a cognitive neuroscientist funded by the Swiss National Science Foundation (SNSF). She received a Diploma from the Ruhr-University Bochum (Germany) in 2006, with a major in clinical neuropsychology. She then obtained a Belgian National Fund for Scientific Research Fellowship with which she obtained her PhD from the Université catholique de Louvain (Belgium) under the supervision of Prof. Bruno Rossion. Supported by further individual funding from the Belgian National Fund for Scientific Research, she then spent 5 years as a Visiting Research Fellow at the University of Glasgow (Scotland). After having joined the University of Fribourg (UniFR) in 2015, she was awarded a SNSF Promoting Women in Academia (PRIMA) grant in 2018, and is now Assistant Professor at UNIFR. Since March 2019 Dr. Ramon is a Principal Investigator and Group Leader at UniFR, where she heads the Applied Face Cognition (AFC) Lab, which is funded by a PRIMA grant to investigate the Mechanisms of superior face recognition. She has collaborations with several international security agencies, advises governments on issues related to face recognition and acts as a scientific advisor to the Berlin State Office of Criminal Investigation. She is a founding member of the 500 Women Scientists in Bern, advisor in Simply Neuroscience's Action Potential Advising Program, local node Leader in the Swiss Reproducibility Network, Guest Editor with Neuropsychologia and Associate Editor with Swiss Psychology Open.

Rosa C. Paolicelli, PhD
University of Lausanne
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Rosa C. Paolicelli earned her Bachelor in Medical Biotechnology at the University of Bologna, Italy, in 2006, and a MSc in Molecular Neuroscience at the University of Bristol, UK, in 2007. She graduated in 2011 with a PhD in Cellular and Molecular Biology, from the European Molecular Biology Laboratory (EMBL). In her predoctoral work, Rosa investigated the role of microglia in refining neural circuits during development, showing that synaptic pruning by microglia is critical for proper brain maturation. After completing her PhD, Dr. Rosa worked as postdoc at the University of Zurich (2012-2018) in the Department of Systems and Cell Biology of Neurodegeneration. During this time, she focused her studies on understanding how dysfunctional microglia can be implicated in the pathogenesis of neurodegeneration. Since September 2018, Rosa is Assistant Professor at the Department of Biomedical Sciences at UNIL, heading the Microglia Biology Lab. Her research focuses on the cellular and molecular mechanisms underlying microglia-mediated brain dysfunction.

Lab Funding:
ERC Starting Grant, SNSF, Fondation Synapsis Recherche Alzheimer Suisse RAS

Microglia Biology Lab:
Currently, 3 PhD students, 3 postdocs, 2 Lab technicians

Thibaud Gruber, PhD
Faculty of Psychology and Educational Sciences & Center of Affective Sciences
University of Geneva
Twitter: @bonobo_style
Web: https://thibaudgruber.weebly.com/

Thibaud Gruber a comparative psychologist with broad interests ranging from cognitive anthropology and developmental science to behavioural ecology. He uses different approaches in the field and the lab (observational, experimental) to tackle the question of the evolution of culture and language in non-human and human great apes. After a Bachelor in Biology at the Ecole Normale Supérieure de Lyon and a Master in Cognitive Sciences at the Ecole Normale Supérieure, Paris, he pursued a PhD in Psychology at the University of St Andrews, UK, studying the origins of tool use and culture by implementing field experiments with wild chimpanzees in Ugandan rain forests. During this time, he also developed an interest in research on primate vocalizations. Following his PhD, he joined the Centre Norbert Elias, a CNRS unit, and the Anthropological Institute and Museum at the University of Zürich for a first postdoctoral experience supported by the **Fyssen Foundation**, to study the cognitive bases of cultural behavior in chimpanzees and orangutans. He then continued this work at the Department of Comparative Psychology at the University of Neuchâtel as an **Intra-European Marie Curie Fellow** before joining the University of Geneva as a Swiss National Science Foundation (SNSF) Postdoc to study emotions in vocalizations in human and nonhuman primates. The SNSF also funded him through an **Advanced Postdoctoral Fellowship** at the University of Oxford, UK, and Kyoto University where he studied the cognitive understanding of tool use in the world-famous chimpanzees of the Primate Research Institute. The SNSF granted him an **Eccellenza Professorial Fellowship** to start his own research group as an Assistant Professor at the University of Geneva in August 2020. Thibaud is also the co-director of the Bugoma Primate Conservation Project.

Ann-Marie G. de Lange, PhD
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The overall aim of the research of Ann-Marie is to increase the understanding of factors and conditions that promote brain and cognitive health across the lifespan. During her PhD in Cognitive Neuroscience, she studied the human potential for brain and cognitive plasticity. Since then, she has focused on developing expertise within computational analyses for neuroimaging data, working on large-scale datasets (e.g. UK Biobank) with a particular interest in women's brain health. In 2018, she was awarded a grant to spend one year at the University of Oxford, UK, and subsequently secured a 3-year fellowship grant to continue her research in Oxford - collaborating closely with former colleagues at the University of Oslo. This fellowship provided great opportunities to establish relations in the UK, as well as developing advanced computational skills. The international collaboration was successful; between October 2019 and March 2021, Ann-Marie contributed to 26 scientific papers (17 published, 9 currently in review), in ten of them she holds first/last authorship. This work provided the basis for establishing *FemiLab*, where she and her team aim to study women's brain health by applying computational tools to neuroimaging, genetic, clinical, and cognitive data. *FemiLab* is funded by the Swiss National Science foundation, and brings together a core team of researchers at the University of Oxford, University of Oslo, and CHUV/UNIL.

Mackenzie Mathis, PhD
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Mackenzie Mathis is the Bertarelli Foundation Chair of Integrative Neuroscience at the Swiss Federal Institute of Technology, Lausanne (EPFL). She is an assistant professor within the Brain Mind Institute, Center for Neuroprosthetics, and Center for Intelligent Systems at EPFL, as well as an EPFL ELLIS Unit Faculty Member (and ELLIS Fellow), having joined EPFL in 2020 after moving her lab from Harvard University where she held the Rowland Fellowship. Her lab works on mechanisms underlying adaptive behavior in intelligent systems. Specifically, the laboratory combines machine learning, computer vision, and experimental work in rodents with the combined goal of understanding the neural basis of adaptive motor control, which may lead to new avenues in therapeutic research for neurological disease. Prior to starting at the Rowland, she was a Postdoctoral Fellow with Prof. Dr. Matthias Bethge at the University of Tübingen (April - August 2017) and completed her PhD studies at Harvard University under the direction of Prof. Naoshige Uchida (March 2013-March 2017).

Service:

- Board Member Science Ambassador Scholarship
- U24 OpenEphys Scientific Advisor
- U24 DataJoint Scientific Advisor
- WISH Foundation Board Member
- AMLD Board Member