CURRICULUM VITAE

Pierre Le Merre, PhD
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Date of Birth : 20/08/1987

CURRENT POSITION

2017 (September) - present, Post-doctoral researcher at Karolinska Institutet in the lab of Marie Carlén (KI, Stockholm, Sweden).

PREVIOUS POSITION

2017 (January to June), Post-doctoral researcher at the École Polytechnique Fédérale de Lausanne in the lab of Carl Petersen (EPFL, Lausanne, Switzerland).

EDUCATION

2012- 2016, PhD degree in Neurosciences : Thesis title: *Cortical dynamics and sensory processing in the awake mouse - impact of the behavioral context..* Thesis co-directed between the University of Lyon by Paul Salin (CRNL, Lyon, France) and the École Polytechnique Fédérale de Lausanne by Carl Petersen (EPFL, Lausanne, Switzerland) and Sylvain Crochet (EPFL, Lausanne, Switzerland). Defended the 16th of December 2016 and graduated with honors.

2009-2012, Master's degree of Biosciences (MSc) at the École Normale Supérieure of Lyon. Graduated with honors.

2009-2010, Agrégation des Sciences de la Vie, de la Terre et de l'Univers (french national teacher grade in Biology and Geology), ranked 5th.

2007-2008, Bachelor's degree in Fundamental Biology (BSc) at the École Normale Supérieure of Lyon.

2005-2007 Two-year high of selective classes of Biology, Chemistry, Physics and Earth Sciences to prepare for the competitive exams to the Grandes Ecoles at the Lycee Camille Guerin, Poitiers (France).

2004-2005, Scientific Baccalaureat with a very good pass (17,6 / 20) at the Lycee Jean Giraudoux, Bellac (Haute-Vienne), France.

SUPERVISION AND TEACHING

2017-present Supervision of 5 Master students during the postdoc.

2012-2016 Supervision of 4 Master students during the PhD.

Teaching Assistant, University of Lyon and École Normale Supérieure (64h per year).

COURSES

2018 Neuropixels course at UCL, London.

GRANTS AND AWARDS

2020 – StratNeuro Postdoc Grant – 1 yr, 750 000 SEK

2019-2021 – NARSAD Young Investigator Award (2019) – 2 yrs, 35 000 $ / year (1$ 9,4 SEK)

2019, NVIDIA GPU Grant program.

2018-2019, Karolinska Institutet fonder - 93 400 SEK.

2015, Fellowship, International Mobility Fellowship Lyon-St Etienne (PALSE).

PUBLICATIONS

2018 Le Merre, P., Esmaeili, V., Charriere, E., Galan, K., Salin, P.-A., Petersen, C.C.H., and Crochet, S. *Reward-Based Learning Drives Rapid Sensory Signals in Medial Prefrontal Cortex and Dorsal Hippocampus Necessary for Goal-Directed Behavior.* Neuron, 97, 83?91.e5.

2016 Fernandez L.M.J., Comte J.C., **Le Merre P.**, Lin J.S., Salin P.A. and Crochet S. *Highly dynamic spatiotemporal organization of low-frequency activities during behavioral states in the mouse cerebral cortex.* Cereb Cortex. 27, 5444?5462.

2012 Enjin, A., Leao, K.E., Mikulovic, S., **Le Merre, P.**, Tourtellotte, W.G., and Kullander, K. *Sensorimotor function is modulated by the serotonin receptor 1d, a novel marker for gamma motor neurons.* Mol Cell Neurosci 49, 322-332.

ANIMAL EXPERIMENTATION CERTIFICATES

2017 Approval to carry out animal experimentation on rodents in Sweden granted by the LAS E & T unit.

2016 Introductory Course in Laboratory Animal Science : Legislation and permit - Ethics - 3R methods. Organized by the Swiss Federation of Cantonal Veterinary Surgeons.

2014 Level 1 Animal Experimentation (FELASA C) - Ethics and good practices for animal experimentation delivered by the University of Lyon.

INFORMATIC SKILLS

Exploitation systems : Windows, Apple and Linux.
Softwares : Matlab (Mathworks), Python, Igor Pro (Wavemetrics), LabView (National Instruments), LaTeX, Illustrator (Adobe), HTML5, CSS3, Word, Excel and Powerpoint.

OTHER INFORMATION

Languages : French (native speaker), English (fluent), Spanish (conversational), Swedish (notions).
Driving Licence (B)
Interests: Travelling, DJ and electronic music producer, Short movie director.
Sports : Running, Hiking, Badminton.