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ALTARELLI Irene

Session: GP and PhD started in Oct 2009

Doctoral school: ED 158 – UPMC

Thesis title: Neuroanatomical correlates of developmental dyslexia.

Thesis director: Franck RAMUS

PhD defense: 17.09.2013

Position: PostDoc – University of Geneva (Switzerland) – **Daphné BAVELIER's** lab.

Altarelli I, Monzalvo K, Iannuzzi S, Fluss J, Billard C, Ramus F, Dehaene-Lambertz G. A functionally guided approach to the morphometry of occipito-temporal regions in developmental dyslexia: evidence for differential effects in boys and girls. *J Neurosci*. 2013 Jul 3;33(27):11296-301. doi: 10.1523/JNEUROSCI.5854-12.2013. PMID: 23825432

Płóński P, Gradkowski W, **Altarelli I**, Monzalvo K, van Ermingen-Marbach M, Grande M, Heim S, Marchewka A, Bogorodzki P, Ramus F, Jednoróg K. Multi-parameter machine learning approach to the neuroanatomical basis of developmental dyslexia. *Hum Brain Mapp*. 2016 Oct 6. doi: 10.1002/hbm.23426. [Epub ahead of print]

Katarzyna Jednorog, Artur Marchewka, **Irene Altarelli**, Ana Karla Monzalvo Lopez, Muna van Ermingen-Marbach, Marion Grande, Anna Grabowska, Stefan Heim, and Franck Ramus. How Reliable are Gray Matter Disruptions in Specific Reading Disability Across Multiple Countries and Languages? Insights from a Large-Scale Voxel-Based Morphometry Study. *Human Brain Mapping* 36:1741–1754 (2015). doi: 10.1002/hbm.22734. Epub 2015 Jan 17. PMID: 25598483

Altarelli I, Leroy F, Monzalvo K, Fluss J, Billard C, Dehaene-Lambertz G, Galaburda AM, Ramus F. Planum temporale asymmetry in developmental dyslexia: Revisiting an old question. *Hum Brain Mapp*. 2014 Dec;35(12):5717-35. doi: 10.1002/hbm.22579. Epub 2014 Jul 10.

Zhao J, Thiebaut de Schotten M, **Altarelli I**, Dubois J, Ramus F. Altered hemispheric lateralization of white matter pathways in developmental dyslexia: Evidence from spherical deconvolution tractography. *Cortex*. 2016 Mar;76:51-62. doi: 10.1016/j.cortex.2015.12.004. Epub 2016 Jan 14.

Martinaud O, Pouliquen D, Parain D, Goldenberg A, Gérardin E, Hannequin D, **Altarelli I**, Ramus F, Hertz-Pannier L, Dehaene-Lambertz G, Cohen L. Impaired functional differentiation for categories of objects in the ventral visual stream: A case of developmental visual impairment. *Neuropsychologia*. 2015 Oct;77:52-61. doi: 10.1016/j.neuropsychologia.2015.08.009. Epub 2015 Aug 10.

Jednoróg K*, **Altarelli I***, Monzalvo K, Fluss J, Dubois J, Billard C, Dehaene-Lambertz G, Ramus F. *equal contributors The influence of socioeconomic status on children's brain structure. *PLoS One*. 2012;7(8):e42486. doi: 10.1371/journal.pone.0042486. PMID:22880000

ARAKAKI Takafumi

Session: GP started in Sept 2011 – PhD started in Oct 2012

Doctoral school: ED 158 – UPMC

Thesis title: Collective dynamics of basal ganglia-thalamo-cortical loops and their roles in functions and dysfunctions.

Thesis director: David HANSEL

PhD defense: 21.03.2016

Position: Post doc – University of Oregon (USA) – Institute of Neuroscience – **Yashar AHMADIAN's** lab.

Arakaki T, Mahon S, Charpier S, Leblois A, Hansel D. The Role of Striatal Feedforward Inhibition in the Maintenance of Absence Seizures. *J Neurosci*. 2016 Sep 14;36(37):9618-32. doi: 10.1523/JNEUROSCI.0208-16.2016.

ARDUIN Pierre-Jean

Session: GP started in Sept 2007 – PhD started in Oct 2008

Doctoral school: ED 474 – Frontiere du Vivant – ENS

Thesis title: Operant conditioning of neurons in the rat motor cortex for a graded control of a prosthetic device.

Thesis directors: Daniel SHULZ & Yves FREGNAC

PhD defense: 05.12.2011

Position: R&D engineer at **MaunaKea Technologies** (France).

Pierre-Jean Arduin, Yves Frégnac, Daniel E. Shulz, and Valérie Ego-Stengel. "Master" neurons induced by operant conditioning in rat motor cortex during a brain-machine interface task. *J Neurosci.* 2013 May 8;33(19):8308-20. doi: 10.1523/JNEUROSCI.2744-12.2013. PMID: 23658171

Arduin PJ, Frégnac Y, Shulz DE, Ego-Stengel V. Bidirectional control of a one-dimensional robotic actuator by operant conditioning of a single unit in rat motor cortex. *Front Neurosci.* 2014 Jul 25;8:206. doi: 10.3389/fnins.2014.00206. eCollection 2014.

BARBEITO Ana

Session: GP and PhD started in February 2009

Doctoral school: ED 158 – UPMC

Thesis title: Role of the chemokine CXCL12 and its receptor CXCR4 in-glia interaction motoneurone in Amyotrophic Lateral Sclerosis.

Thesis director: Michel MALAT

PhD defense: 06.06.2013

Position: R&D manager at **BioBank** (France).

Barbeito AG, Mesci P, Boillée S. Motor neuron-immune interactions: the vicious circle of ALS. *J Neural Transm.* 2010 Aug;117(8):981-1000. doi: 10.1007/s00702-010-0429-0. PMID: 20552235

BEGUE Aurélien

Session: GP started in Sept 2008 – PhD started in Oct 2009

Doctoral school: ED 158 – UPMC

Thesis title: Two-photon optogenetics.

Thesis director: Valentina EMILIANI

PhD defense: 21.11.2012

Position: PostDoc – Harvard Medical School (USA) – **Bernardo SABATINI**'s lab.

Eirini Papagiakoumou, **Aurélien Bègue**, Ben Leshem, Osip Schwartz, Brandon M. Stell, Jonathan Bradley, Dan Oron & Valentina Emiliani. Functional patterned multiphoton excitation deep inside scattering tissue. *Nature Photonics* 7, 274–278 (2013) doi:10.1038/nphoton.2013.9

Papagiakoumou E, Anselmi F, **Bègue A**, de Sars V, Glückstad J, Isacoff EY, Emiliani V. Scanless two-photon excitation of channelrhodopsin-2. *Nat Methods.* 2010 Oct;7(10):848-54. doi: 10.1038/nmeth.1505. PMID:20852649

Anselmi F, Ventalon C, **Bègue A**, Ogden D, Emiliani V. Three-dimensional imaging and photostimulation by remote-focusing and holographic light patterning. *Proc Natl Acad Sci U S A.* 2011 Dec 6;108(49):19504-9. doi: 10.1073/pnas.1109111108. PMID: 22074779

Bègue A, Papagiakoumou E, Leshem B, Conti R, Enke L, Oron D, Emiliani V. Two-photon excitation in scattering media by spatiotemporally shaped beams and their application in optogenetic stimulation. *Biomed Opt Express.* 2013 Nov 18;4(12):2869-79. doi: 10.1364/BOE.4.002869. PMID: 24409387

Bègue A, Anselmi F, Papagiakoumou E, Emiliani V. Wavefront engineering for two-photon excitation of optogenetic tools. *Med Sci (Paris).* 2011 Oct;27(10):811-3. doi: 10.1051/medsci/20112710006. PMID: 22027415

BLOCKUS Heike

Session: GP started in Sept 2011 – PhD started in Oct 2012

Doctoral school: ED 158 – UPMC

Thesis title: Evolution and Molecular Mechanisms of Commissure Formation.

Thesis director: Alain CHEDOTAL

PhD defense: 24.09.2015

Position: PostDoc – Columbia University (USA) – **Franck POLLEUX's** lab.

Blockus H, Chédotal A. Fly Dscams Can Also Help You Find the Right Partners. *Neuron*. 2016 Feb 3;89(3):423-5. doi: 10.1016/j.neuron.2016.01.021.

Zelina P*, **Blockus H***, Zagar Y*, Péres A, Friocourt F, Wu Z, Rama N, Fouquet C, Hohenester E, Tessier-Lavigne M, Schweitzer J, Roest Crollius H, Chédotal A. * These authors contributed equally Signaling Switch of the Axon Guidance Receptor Robo3 during Vertebrate Evolution. *Neuron*. 2014 Dec 17;84(6):1258-72. doi: 10.1016/j.neuron.2014.11.004. Epub 2014 Nov 26. PubMed PMID: 25433640.

Blockus H, Chédotal A. Dystroglycan adds more sugars to the midline cocktail. *Neuron*. 2012 Dec 6;76(5):864-7. doi: 10.1016/j.neuron.2012.11.017. PMID: 23217735

Blockus H, Chédotal A. The multifaceted roles of Slits and Robos in cortical circuits: from proliferation to axon guidance and neurological diseases. *Curr Opin Neurobiol*. 2014 Mar 31;27C:82-88. doi: 10.1016/j.conb.2014.03.003. PMID: 24698714. Review

Blockus H, Chédotal A. Slit-Robo signaling. A review *Development*. 2016 Sep 1;143(17):3037-44. doi: 10.1242/dev.132829.

Kadaré G, Gervasi N, Brami-Cherrier K, **Blockus H**, El Messari S, Arold ST, Girault JA. Conformational dynamics of the focal adhesion targeting domain control specific functions of focal adhesion kinase in cells. *J Biol Chem*. 2015 Jan 2;290(1):478-91. doi: 10.1074/jbc.M114.593632. Epub 2014 Nov 12. PubMed PMID:25391654; PubMed Central PMCID: PMC4281750

BÖHM Urs Lucas

Session: GP started in Sept 2011 – PhD started in Oct 2012

Doctoral school: ED 158 – UPMC

Thesis title: Physiological inputs to cerebrospinal fluid-contacting neurons.

Thesis director: Claire WYART

PhD defense: 16.09.2016

Position: PostDoc – Harvard University (USA) – **Adam COHEN's** lab.

Böhm UL, Prendergast A, Djenoune L, Nunes Figueiredo S, Gomez J, Stokes C, Kaiser S, Suster M, Kawakami K, Charpentier M, Concordet JP, Rio JP, Del Bene F, Wyart C. CSF-contacting neurons regulate locomotion by relaying mechanical stimuli to spinal circuits. *Nat Commun*. 2016 Mar 7;7:10866. doi: 10.1038/ncomms10866.

Hubbard JM, **Böhm UL**, Prendergast A, Tseng PB, Newman M, Stokes C, Wyart C. Intraspinal Sensory Neurons Provide Powerful Inhibition to Motor Circuits Ensuring Postural Control during Locomotion. *Curr Biol*. 2016 Nov 7;26(21):2841-2853. doi: 10.1016/j.cub.2016.08.026. Epub 2016 Oct 6.

Böhm UL, Wyart C. Spinal sensory circuits in motion. *Curr Opin Neurobiol*. 2016 Dec;41:38-43. doi: 10.1016/j.conb.2016.07.007. Epub 2016 Aug 27. Review

Le Roux N, Cabezas C, **Böhm UL**, Poncer JC. Input-specific learning rules at excitatory synapses onto hippocampal parvalbumin-expressing interneurons. *J Physiol*. 2013 Apr 1;591(Pt 7):1809-22. doi: 10.1113/jphysiol.2012.245852. PMID: 23339172

BOUCHACOURT Flora

Session: GP started in Sept 2011 – PhD started in Oct 2012

Doctoral school: ED 158 – UPMC

Thesis title: Hebbian mechanisms and temporal contiguity for unsupervised task-set learning.

Thesis director: Srdjan OSTOJIC

PhD defense: 07.11.2016

Position: PostDoc – Princeton University (USA) – **Jonathan COHEN's** lab.

CAHILL Emma

Session: GP started in Sept 2008 – PhD started in Oct 2009

Doctoral school: ED158 – UPMC

Thesis title: Integration of Dopamine and Glutamate signalling by D1R/NMDAR heteromers in the striatum in response to cocaine.

Thesis director: Peter VANHOUTTE

PhD defense: 25.06.2013

Position: PostDoc – University of Cambridge – Department of Psychology (United_Kingdom) – **Barry EVERITT's** lab.

E Cahill, V Pascoli, P Trifilieff, D Savoldi, V Kappès, C Lüscher, J Caboche, and P Vanhoutte. *D1R/GluN1 complexes in the striatum integrate dopamine and glutamate signalling to control synaptic plasticity and cocaine-induced responses. Molecular Psychiatry (2014) 19, 1295–1304; doi:10.1038/mp.2014.73; published online 29 July 2014*

Pascoli V, **Cahill E**, Bellivier F, Caboche J, Vanhoutte P. *Extracellular Signal-Regulated Protein Kinases 1 and 2 Activation by Addictive Drugs: A Signal Toward Pathological Adaptation. Biol Psychiatry. 2014 Apr 18. pii: S0006-3223(14)00264-9. doi: 10.1016/j.biopsych.2014.04.005. PMID: 24844603*

Roze E, **Cahill E**, Martin E, Bonnet C, Vanhoutte P, Betuing S, Caboche J. *Huntington's Disease and Striatal Signaling. A review Front Neuroanat. 2011 Aug 23;5:55. doi: 10.3389/fnana.2011.00055. PMID: 22007160. Review*

CHANES Lorena

Session: GP started in Sept 2009 – PhD started in Oct 2010

Doctoral school: ED 158 – UPMC

Thesis title: Frontal and parietal contributions to visual perception in humans.

Thesis director: Antoni VALERO-CABRE

PhD defense: 25.02.2014

Position: PostDoc and Part-Time Faculty – Northeastern University (USA) – **Lisa FELDMAN BARRETT & Karen QUIGLEY's** lab.

Quentin R, Elkin Frankston S, Vernet M, Toba MN, Bartolomeo P, **Chanes L**, Valero-Cabré A. Visual Contrast Sensitivity Improvement by Right Frontal High-Beta Activity Is Mediated by Contrast Gain Mechanisms and Influenced by Fronto-Parietal White Matter Microstructure. *Front Pharmacol*. 2014 Jan 8;4:172. eCollection 2014. PMID: 24409148

Quentin R, **Chanes L**, Vernet M, Valero-Cabré A. Fronto-Parietal Anatomical Connections Influence the Modulation of Conscious Visual Perception by High-Beta Frontal Oscillatory Activity. *Cereb Cortex*. 2014 Feb 18. PMID: 24554730

Chanes L, Quentin R, Tallon-Baudry C, Valero-Cabré A. Causal frequency-specific contributions of frontal spatiotemporal patterns induced by non-invasive neurostimulation to human visual performance. *J Neurosci*. (11):5000-5. doi: 10.1523/JNEUROSCI.4401-12.2013. PMID: 23486970

Quentin R, **Chanes L**, Migliaccio R, Valabrègue R, Valero-Cabré A. Fronto-tectal white matter connectivity mediates facilitatory effects of non-invasive neurostimulation on visual detection. *Neuroimage*. doi:pii: S1053-8119(13)00583-1. 10.1016/j.neuroimage.2013.05.083. PMID: 23707586

Chanes L, Quentin R, Vernet M, Valero-Cabré A. Arrhythmic activity in the left frontal eye field facilitates conscious visual perception in humans. *Cortex*. 2015 May 27;71:240-247. doi: 10.1016/j.cortex.2015.05.016. [Epub ahead of print]

Chanes L, Chica AB, Quentin R, Valero-Cabré A. Manipulation of pre-target activity on the right frontal eye field enhances conscious visual perception in humans. *PLoS One*.(5):e36232. 2012. doi: 10.1371/journal.pone.0036232. PMID: 22615759

Chica AB, Lasaponara S, **Chanes L**, Valero-Cabré A, Doricchi F, Lupiáñez J, Bartolomeo P. Spatial attention and conscious perception: the role of endogenous and exogenous orienting. *Atten Percept Psychophys*. 2011 May;73(4):1065-81. doi: 10.3758/s13414-010-0082-6. PMID: 21327748

COLLETTE Sven

Session: GP and PhD started in Dec 2008

Doctoral school: ED 158 – UPMC

Thesis title: Value-based Decision-Making of Actions and Tasks in Human Prefrontal Cortex.

Thesis director: Etienne KOEHLIN

PhD defense: 30.05.2012

Position: Research associate in Neuroscience – **Campus Biotech** (Switzerland).

Session: GP started in Sept 2008 – PhD started in Oct 2009

Doctoral school: ED 158 – UPMC

Thesis title: The Many Faces of Corticostriatal Spike-Timing Dependent Plasticity.

Thesis director: Laurent VENANCE

PhD defense: 23.09.2013

Position: PostDoc – Institute of Neuroscience of the Chinese Academy of Sciences (China) – **Hailan HU's** lab.

Puente N, **Cui Y**, Lassalle O, Lafourcade M, Georges F, Venance L, Grandes P, Manzoni OJ. Polymodal activation of the endocannabinoid system in the extended amygdala. *Nat Neurosci.* 2011 Nov 6;14(12):1542-7. doi: 10.1038/nn.2974. PMID: 22057189

Cui Y, Paillé V, Xu H, Genet S, Delord B, Fino E, Berry H, Venance L. Endocannabinoids mediate bidirectional striatal spike-timing-dependent plasticity. *J Physiol.* 2015 Apr 15. doi: 10.1113/JP270324. [Epub ahead of print]

Fino E, Paille V, **Cui Y**, Morera-Herreras T, Deniau JM, Venance L. Distinct coincidence detectors govern the corticostriatal spike timing-dependent plasticity. *J Physiol.* 2010 Aug 15;588(Pt 16):3045-62. doi: 10.1113/jphysiol.2010.188466. PMID: 20603333

Eddine R, Valverde S, Tolu S, Dautan D, Hay A, Morel C, **Cui Y**, Lambolez B, Venance L, Marti F, Faure P. A concurrent excitation and inhibition of dopaminergic subpopulations in response to nicotine. *Sci Rep.* 2015 Feb 2;5:8184. doi: 10.1038/srep08184.

Evans RC, Morera-Herreras T, **Cui Y**, Du K, Sheehan T, Kotaleski JH, Venance L, Blackwell KT. The effects of NMDA subunit composition on calcium influx and spike timing-dependent plasticity in striatal medium spiny neurons. *PLoS Comput Biol.* 2012;8(4):e1002493. doi: 10.1371/journal.pcbi.1002493. PMID: 22536151

Cui Y, Prokin I, Xu H, Delord B, Genet S, Venance L, Berry H. Endocannabinoid dynamics gate spike-timing dependent depression and potentiation. *Elife.* 2016 Feb 27;5:e13185. doi: 10.7554/eLife.13185.

DEGHANI Nima

Session: GP and PhD started in September 2009

Doctoral school: ED 158 – UPMC

Thesis title: Electromagnetic signature of human cortical dynamics during wakefulness and sleep.

Thesis director: Alain DESTEXHE

PhD defense: 30.08.2012

Position: Research scientist – **Massachusetts Institute of Technology** (USA).

Le Van Quyen M, Muller LE 2nd, Telenczuk B, Halgren E, Cash S, Hatsopoulos NG, **Dehghani N**, Destexhe A. High-frequency oscillations in human and monkey neocortex during the wake-sleep cycle. *Proc Natl Acad Sci U S A*. 2016 Aug 16;113(33):9363-8. doi: 10.1073/pnas.1523583113. PMID: 27482084

Peyrache A, **Dehghani N**, Eskandar EN, Madsen JR, Anderson WS, Donoghue JA, Hochberg LR, Halgren E, Cash SS, Destexhe A. Spatiotemporal dynamics of neocortical excitation and inhibition during human sleep. *Proc Natl Acad Sci U S A*. 2012 Jan 31;109(5):1731-6. doi: 10.1073/pnas.1109895109. PMID: 22307639

Dehghani N, Peyrache A, Telenczuk B, Le Van Quyen M, Halgren E, Cash SS, Hatsopoulos NG, Destexhe A. Dynamic Balance of Excitation and Inhibition in Human and Monkey Neocortex. *Sci Rep*. 2016 Mar 16;6:23176. doi: 10.1038/srep23176. PMID: 26980663

Dehghani N, Bédard C, Cash SS, Halgren E, Destexhe A. Comparative power spectral analysis of simultaneous electroencephalographic and magnetoencephalographic recordings in humans suggests non-resistive extracellular media. *J Comput Neurosci*. 2010 Dec;29(3):405-21. doi: 10.1007/s10827-010-0263-2. PMID: 20697790

Dehghani N, Bédard C, Cash SS, Halgren E, Destexhe A. Comparative power spectral analysis of simultaneous electroencephalographic and magnetoencephalographic recordings in humans suggests non-resistive extracellular media: EEG and MEG power spectra. *J Comput Neurosci*. 2010 Dec;29(3):405-21. doi: 10.1007/s10827-010-0263-2. PMID: 20556640

Dehghani N, Hatsopoulos NG, Haga ZD, Parker RA, Greger B, Halgren E, Cash SS, Destexhe A. Avalanche Analysis from Multielectrode Ensemble Recordings in Cat, Monkey, and Human Cerebral Cortex during Wakefulness and Sleep. *Front Physiol*. 2012 Aug 3;3:302. doi: 10.3389/fphys.2012.00302. PMID: 22934053

HARRINGTON Lauriane

Session: GP started in Sept 2010 – PhD started in Oct 2011

Doctoral school: ED 158 – UPMC

Thesis title: The role of β_4 , α_3 and α_5 nicotinic acetylcholine receptor subunits in nicotine addiction.

Thesis director: Uwe MASKOS

PhD defense: 09.07.2015

Position: R&D Associate, Future Leaders Programme – **GSK** (Belgium).

Harrington L, Viñals X, Herrera-Solís A, Flores A, Morel C, Tolu S, Faure P, Maldonado R, Maskos U, Robledo P. Role of β_4^* Nicotinic Acetylcholine Receptors in the Habenulo-Interpeduncular Pathway in Nicotine Reinforcement in Mice. *Neuropsychopharmacology*. 2015 Nov 20. doi: 10.1038/npp.2015.346.

IYER Keerthana

Session: GP started in Sept 2010 – PhD started in Oct 2011

Doctoral school: ED 158 – UPMC

Thesis title: The role of complement system-related genes in synapse formation and specificity in the olivocerebellar network.

Thesis director: Fekrije SELIMI

PhD defense: 16.09.2015

Position: Looking for a position in science policy consulting.

Lanoue V, Usardi A, Sigoillot SM, Talleur M, **Iyer K**, Mariani J, Isope P, Vodjdani G, Heintz N, Selimi F. The adhesion-GPCR BAI3, a gene linked to psychiatric disorders, regulates dendrite morphogenesis in neurons. *Mol Psychiatry*. 2013 Aug;18(8):943-50. doi: 10.1038/mp.2013.46. PMID: 23628982

Sigoillot SM, **Iyer K**, Binda F, González-Calvo I, Talleur M, Vodjdani G, Isope P, Selimi F. The Secreted Protein C1QL1 and Its Receptor BAI3 Control the Synaptic Connectivity of Excitatory Inputs Converging on Cerebellar Purkinje Cells. *Cell Rep*. 2015 Feb 4. pii: S2211-1247(15)00059-5. doi: 10.1016/j.celrep.2015.01.034. [Epub ahead of print]

Usardi A, **Iyer K**, Sigoillot SM, Dusonchet A, Selimi F. The immunoglobulin-like superfamily member IGSF3 is a developmentally regulated protein that controls neuronal morphogenesis. *Dev Neurobiol*. 2016 Jun 21. doi: 10.1002/dneu.22412. [Epub ahead of print] PMID:27328461

KATZ Shauna

Session: GP started in Sept 2011 – PhD started in Oct 2012

Doctoral school: ED 419 – Université Paris-Sud

Thesis title: Role of microRNA-9 in regulating neural stem cell states.

Thesis director: Laure BALLY-CUIF

PhD defense: 13.11.2015

Position: Valorisation Manager for the **LABEX DEEP** and the **LABEX Celtisphybio** – Institut Curie (France).

Katz S, Cussigh D, Urbán N, Blomfield I, Guillemot F, Bally-Cuif L, Coolen M. A Nuclear Role for miR-9 and Argonaute Proteins in Balancing Quiescent and Activated Neural Stem Cell States. *Cell Rep*. 2016 Oct 25;17(5):1383-1398. doi: 10.1016/j.celrep.2016.09.088. PMID: 27783951

Coolen M, **Katz S**, Bally-Cuif L. miR-9: a versatile regulator of neurogenesis. *Front Cell Neurosci*. 2013 Nov 20;7:220. doi: 10.3389/fncel.2013.00220. PMID: 24312010

LIU Xinhe

Session: GP started In Sept 2009 – PhD started in Oct 2010

Doctoral school: ED 158 – UPMC

Thesis title: The role of astroglial connexin 30 in sleep homeostasis.

Thesis director: Christian GIAUME

PhD defense: 23.09.2014

Position: PostDoc – Collège de France (France) – **Christian GIAUME's** lab.

Liu X, Gangoso E, Yi C, Jeanson T, Kandelman S, Mantz J, Giaume C. General anesthetics have differential inhibitory effects on gap junction channels and hemichannels in astrocytes and neurons. *Glia*. 2016 Apr;64(4):524-36. doi: 10.1002/glia.22946. PMID: 26666873

Liu X, Petit JM, Ezan P, Gyger J, Magistretti P, Giaume C. The psychostimulant modafinil enhances gap junctional communication in cortical astrocytes. *Neuropharmacology*. 2013 Dec;75:533-8. doi: 10.1016/j.neuropharm.2013.04.019. PMID: 23665355

Duchêne A, Perier M, Zhao Y, **Liu X**, Thomasson J, Chauveau F, Piérard C, Lagarde D, Picoli C, Jeanson T, Mouthon F, Dauvilliers Y, Giaume C, Lin JS, Charvériat M. Impact of Astroglial Connexins on Modafinil Pharmacological Properties. *Sleep*. 2016 Jun 1;39(6):1283-92. doi: 10.5665/sleep.5854. PMID: 27091533

Giaume C, **Liu X**, From a glial syncytium to a more restricted and specific glial networking. *J Physiol Paris*. 2012 Jan;106(1-2):34-9. doi: 10.1016/j.jphysparis.2011.09.001. PMID: 21979115

LYONS Declan

Session: GP started in Sept 2009 – PhD started in Oct 2010

Doctoral school: ED 158 – UPMC

Thesis title: Mapping oxygen in the awake mouse brain.

Thesis director: Serge CHARPAK

PhD defense: 06.02.2015

Position: PostDoc – University College London (United Kingdom) – **Jason RIHÉL's** lab.

Otsu Y, Couchman K, **Lyons DG**, Collot M, Agarwal A, Mallet JM, Pfrieder FW, Bergles DE, Charpak S. Calcium dynamics in astrocyte processes during neurovascular coupling. *J Physiol Paris*. 2012 Jan;106(1-2):34-9. doi: 10.1016/j.jphysparis.2011.09.001. PMID: 21979115

Lyons DG, Parpaleix A, Roche M, Charpak S. Mapping oxygen concentration in the awake mouse brain. *Elife*. 2016 Feb 2;5. pii: e12024. doi: 10.7554/eLife.12024. PMID: 26836304

MALDONADO Paloma

Session: GP started in Sept 2009 – PhD started in Oct 2010

Doctoral school: ED Bio SPC – Université Paris Descartes/Université Paris Diderot

Thesis title: Synaptic and non-synaptic communication between neurons and Oligodendrocyte Precursor Cells.

Thesis director: Maria Cecilia ANGULO

PhD defense: 09.12.2013

Position: PostDoc – Netherlands Institute for Neuroscience (The Netherlands) – **Christian LOHMANN's** lab.

Zampini V, Liu JK, Diana MA, Maldonado PP, Brunel N, Dieudonné S. Mechanisms and functional roles of glutamatergic synapse diversity in a cerebellar circuit. *Elife*. 2016 Sep 19;5. pii: e15872. doi: 10.7554/eLife.15872.

Orduz D, **Maldonado PP**, Balia M, Vélez-Fort M, de Sars V, Yanagawa Y, Emiliani V, Angulo MC. Interneurons and oligodendrocyte progenitors form a structured synaptic network in the developing neocortex. *Elife*. 2015 Apr 22;4. doi: 10.7554/eLife.06953. PMID: 25902404

Maldonado PP, Angulo MC. Multiple Modes of Communication between Neurons and Oligodendrocyte Precursor Cells. *Neuroscientist*. 2014 Apr 10. PMID: 24722526

Maldonado PP, Vélez-Fort M, Levavasseur F, Angulo MC. Oligodendrocyte precursor cells are accurate sensors of local K⁺ in mature gray matter. *J Neurosci*. 2013 Feb 6;33(6):2432-42. doi: 10.1523/JNEUROSCI.1961-12.2013. PMID: 23392672

Vélez-Fort M, **Maldonado PP**, Butt AM, Audinat E, Angulo MC. Postnatal switch from synaptic to extrasynaptic transmission between interneurons and NG2 cells. *J Neurosci*. 2010 May 19;30(20):6921-9. doi: 10.1523/JNEUROSCI.0238-10.2010. PMID: 20484634

Sahel A, Ortiz FC, Kerninon C, **Maldonado PP**, Angulo MC, Nait-Oumesmar B. Alteration of synaptic connectivity of oligodendrocyte precursor cells following demyelination. *Front Cell Neurosci*. 2015 Mar 17;9:77. doi: 10.3389/fncel.2015.00077. eCollection 2015.

Maldonado PP, Vélez-Fort M, Angulo MC. Is neuronal communication with NG2 cells synaptic or extrasynaptic? *J Anat*. 2011 Jul;219(1):8-17. doi: 10.1111/j.1469-7580.2011.01350.x.PMID: 21352226

MATHO Katherine

Session: GP started in Sept 2008 – PhD started in Oct 2009

Doctoral school: ED 158 – UPMC

Thesis title: Structure and dynamism in a central neural circuit in adulthood and postnatal development.

Thesis director: Jean LIVET

PhD defense: 26.09.2013

Position: PostDoc – Cold Spring Harbor Laboratory (USA) – **Z. Josh HUANG's** lab.

Mahou P, Zimmerley M, Loulier K, **Matho KS**, Labroille G, Morin X, Supatto W, Livet J, Débarre D, Beaurepaire E. Multicolor two-photon tissue imaging by wavelength mixing. *Nat Methods*. 2012 Jul 8;9(8):815-8. doi: 10.1038/nmeth.2098. PMID: 22772730

Loulier K, Barry R, Mahou P, Le Franc Y, Supatto W, **Matho KS**, Ieng S, Fouquet S, Dupin E, Benosman R, Chédotal A, Beaurepaire E, Morin X, Livet J. Multiplex cell and lineage tracking with combinatorial labels. *Neuron*. 2014 Feb 5;81(3):505-20. doi: 10.1016/j.neuron.2013.12.016. PMID: 24507188

MEDVEDEVA Vera

Session: GP started in March 2010 – PhD started in Oct 2011

Doctoral school: ED 158 – UPMC

Thesis title: Characterization of Foxp2 functions in the mouse cortex.

Thesis director: Matthias GROSZER

PhD defense: 17.06.2015

Position: PostDoc – Institut Jacques Monod – **Alessandra PIERANI**'s lab.

*Kraushar ML, Viljetic B, Wijeratne HR, Thompson K, Jiao X, Pike JW, **Medvedeva V**, Groszer M, Kiledjian M, Hart RP, Rasin MR. Thalamic WNT3 Secretion Spatiotemporally Regulates the Neocortical Ribosome Signature and mRNA Translation to Specify Neocortical Cell Subtypes. J Neurosci. 2015 Aug 5;35(31):10911-26. doi: 10.1523/JNEUROSCI.0601-15.2015. PMID:26245956*

MOZAFARI Sabah

Session: GP started in March 2011 – PhD started in Oct 2012

Doctoral school: ED 158 – UPMC

Thesis director: Anne BARON VAN EVERCOOREN

Thesis title: Characterization of neural precursors derived from iPSCs in vitro and in vivo after transplantation into the demyelinated central nervous system.

PhD defense: 15.06.2016

Position: PostDoc – Institut du Cerveau et de la Moelle – **Anne BARON VAN EVERCOOREN**'s lab.

***Mozafari S**, Laterza C, Roussel D, Bachelin C, Marteyn A, Deboux C, Martino G, Baron-Van Evercooren A. Skin-derived neural precursors competitively generate functional myelin in adult demyelinated mice. J Clin Invest. 2015 Sep 1;125(9):3642-56. doi: 10.1172/JCI80437. Epub 2015 Aug 24. PMID: 26301815*

*Tepavčević V, Kerninon C, Aigrot MS, Meppiel E, **Mozafari S**, Arnould-Laurent R, Ravassard P, Kennedy TE, Nait-Oumesmar B, Lubetzki C. Early netrin-1 expression impairs central nervous system remyelination. Ann Neurol. 2014 Jun 18. doi: 10.1002/ana.24201. PMID: 24942777. Review*

MULLER Lyle

Session: GP started in Sept 2009 – PhD started in Oct 2010

Doctoral school: ED 158 – UPMC

Thesis title: Spatiotemporal dynamics in neocortex: Quantification, analysis, models.

Thesis director: Alain DESTEXHE

PhD defense: 04.06.2014

Position: PostDoc – Salk Institute for Biological Studies (USA) – **Terry SEJNOWSKI's** lab.

L Muller, A Reynaud, F Chavane, A Destexhe. The stimulus-evoked population response in visual cortex of awake monkey is a propagating wave. *Nat Commun.* 2014 Apr 28;5:3675. doi: 10.1038/ncomms4675. PMID:24770473

Petrovici MA, Vogginger B, Müller P, Breitwieser O, Lundqvist M, **Muller L**, Ehrlich M, Destexhe A, Lansner A, Schüffny R, Schemmel J, Meier K. Characterization and compensation of network-level anomalies in mixed-signal neuromorphic modeling platforms. *PLoS One.* 2014 Oct 10;9(10):e108590. doi: 10.1371/journal.pone.0108590. eCollection 2014.

Muller L, Brette R, Gutkin B. Spike-timing dependent plasticity and feed-forward input oscillations produce precise and invariant spike phase-locking. *Front Comput Neurosci.* 2011 Nov 15;5:45. doi: 10.3389/fncom.2011.00045. PMID: 22110429

Lyle E Muller, Alexandre Reynaud, Frédéric Chavane, Alain Destexhe. Propagating waves structure spatiotemporal activity in visual cortex of the awake monkey. *BMC Neuroscience.* 2013; 14(Suppl 1): O8. Published online 2013 Jul 8. doi: 10.1186/1471-2202-14-S1-O8. PMCID: PMC3704421

M Rudolph-Lilith, **LE Muller** (Destexhe) Algebraic approach to small-world network models. *Phys Rev E Stat Nonlin Soft Matter Phys.* 2014 Jan;89(1):012812. PMID: 24580286

Muller L, Destexhe A. Propagating waves in thalamus, cortex and the thalamocortical system: Experiments and models. *J Physiol Paris.* 2012 Sep-Dec;106(5-6):222-38. doi: 10.1016/j.jphysparis.2012.06.005. PMID: 22863604

M Rudolph-Lilith, **LE Muller**. (Destexhe) Aspects of randomness in neural graph structures. *Biol Cybern.* 2014 Aug;108(4):381-96. doi: 10.1007/s00422-014-0606-6. PMID: 24824724

Brüderle D, Petrovici MA, Vogginger B, Ehrlich M, Pfeil T, Millner S, Grübl A, Wendt K, Müller E, Schwartz MO, de Oliveira DH, Jeltsch S, Fieres J, Schilling M, Müller P, Breitwieser O, Petkov V, **Muller L**, Davison AP, Krishnamurthy P, Kremkow J, Lundqvist M, Muller E, Partzsch J, Scholze S, Zühl L, Mayr C, Destexhe A, Diesmann M, Potjans TC, Lansner A, Schüffny R, Schemmel J, Meier K. A comprehensive workflow for general-purpose neural modeling with highly configurable neuromorphic hardware systems. *Biol Cybern.* 2011 May;104(4-5):263-96. doi: 10.1007/s00422-011-0435-9. PMID: 21618053

Lyle Muller, Giovanni Piantoni, Dominik Koller, Sydney Cash, Eric Halgren, Terrence J. Sejnowski. Rotating waves during human sleep spindles organize global patterns of activity that repeat precisely through the night. *eLife*, 5: e17267, 2016

PARRAY Aeijaz

Session: GP started in February 2008 – PhD started in Oct 2008

Doctoral school: ED 158 – UPMC

Thesis title: Role of Semaphorin6A and its receptors PlexinA2 and PlexinA4 in the retina development.

Thesis director: Alain CHEDOTAL

PhD defense: 29.09.2011

Position: PostDoc – University of Minnesota (USA).

Matsuoka RL, Nguyen-Ba-Charvet KT, **Parray A**, Badea TC, Chédotal A, Kolodkin AL. Transmembrane semaphorin signalling controls laminar stratification in the mammalian retina. *Nature.* 2011 Feb 10;470(7333):259-63. doi: 10.1038/nature09675. PMID: 21270798

Belle M, **Parray A**, Belle M, Chédotal A, Nguyen-Ba-Charvet KT. PlexinA2 and Sema6A are required for retinal progenitor cell migration. *Dev Growth Differ.* 2016 Jun;58(5):492-502. doi: 10.1111/dgd.12298. Epub 2016 Jun 15.

PAVLICEK Beth

Session: GP started in Sept 2008 – PhD started in Oct 2009

Doctoral school: ED158 – UPMC

Thesis title: Value-based decision making, cognitive regulation, and obesity.

Thesis director: Etienne KOECHLIN

PhD defense: 02.12.2013

Position: Quality Engineer\Supervisor at **Douglas Corporation** (USA).

Palminteri S, Justo D, Jauffret C, Pavlicek B, Dauta A, Delmaire C, Czernecki V, Karachi C, Capelle L, Durr A, Pessiglione M. Critical roles for anterior insula and dorsal striatum in punishment-based avoidance learning. Neuron. 2012 Dec 6;76(5):998-1009. doi: 10.1016/j.neuron.2012.10.017. PMID: 23217747

PETKOVIC Maja

Session: GP started in Sept 2008 – PhD started in Oct 2009

Doctoral school: ED Bio SPC – Université Paris Descartes/Université Paris Diderot

Thesis title: Membrane expansion in neuronal growth.

Thesis director: Thierry GALLI

PhD defense: 22.02.2013

Position: PostDoc – University of California (USA) – **Yuh Nung JAN's** lab.

Maja Petkovic, Aymen Jemaiel, Frédéric Daste, Christian G. Specht, Ignacio Izeddin, Daniela Vorkel, Jean-Marc Verbavatz, Xavier Darzacq, Antoine Triller, Karl H. Pfenninger, David Taresté, Catherine L. Jackson & Thierry Galli. The SNARE Sec22b has a non-fusogenic function in plasma membrane expansion. Nat Cell Biol. 2014 May;16(5):434-44. doi: 10.1038/ncb2937. PMID: 24705552

Zylbersztein K, Petkovic M, Burgo A, Deck M, Garel S, Marcos S, Bloch-Gallego E, Nothias F, Serini G, Bagnard D, Binz T, Galli T. The vesicular SNARE Synaptobrevin is required for Semaphorin 3A axonal repulsion. J Cell Biol. 2012 Jan 9;196(1):37-46. doi: 10.1083/jcb.201106113. PMID: 22213797

Danglot L, Zylbersztein K, Petkovic M, Gauberti M, Meziane H, Combe R, Champy MF, Birling MC, Pavlovic G, Bizot JC, Trovero F, Della Ragione F, Proux-Gillardeaux V, Sorg T, Vivien D, D'Esposito M, Galli T. Absence of TI-VAMP/Vamp7 leads to increased anxiety in mice. J Neurosci. 2012 Feb 8;32(6):1962-8. doi: 10.1523/JNEUROSCI.4436-11.2012. PMID: 22323709

Ribrault C, Reingruber J, Petković M, Galli T, Ziv NE, Holcman D, Triller A. Syntaxin1A lateral diffusion reveals transient and local SNARE interactions. J Neurosci. 2011 Nov 30;31(48):17590-602. doi: 10.1523/JNEUROSCI.4065-11.2011. PMID: 22131420

RAMOS-BROSSIER Mariana

Session: GP started in Sept 2010 – PhD started in Oct 2011

Doctoral school: ED Bio SPC – Université Paris Descartes/Université Paris Diderot

Thesis title: Unraveling the impact of IL1RAPL1 mutations on synapse formation: towards potential therapies for intellectual disability.

Thesis director: Pierre BILLUART

PhD defense: 09.10.2015

Position: PostDoc – Institut Necker Enfants Malades (France) – **Franck OURY's** lab.

Khelifaoui M, Gambino F, Houbaert X, Ramos M, Ragazzon M, Müller C, Carta M, Lanore F, Srikumar BN, Gastrein P, Lepleux M, Zhang CL, Kneib M, Poulain B, Reibel-Foisset S, Vitale N, Chelly J, Billuart P, Lüthi A, Humeau Y. Lack of the presynaptic RhoGAP protein oligophrenin1 leads to cognitive disabilities through dysregulation of the cAMP/PKA signaling pathway. Philos Trans R Soc Lond B Biol Sci. 2013 Dec 2;369(1633):20130160. doi: 10.1098/rstb.2013.0160. PMID: 24298161

Ramos-Brossier M, Montani C, Lebrun N, Gritti L, Martin C, Seminatore-Nole C, Toussaint A, Moreno S, Poirier K, Dorseuil O, Chelly J, Hackett A, Gecz J, Bieth E, Faudet A, Heron D, Frank Kooy R, Loey B, Humeau Y, Sala C, Billuart P. Novel IL1RAPL1 mutations associated with intellectual disability impair synaptogenesis. Hum Mol Genet. 2015 Feb 15;24(4):1106-18. doi: 10.1093/hmg/ddu523. PMID: 25305082

Houbaert X, Zhang CL, Gambino F, Lepleux M, Deshors M, Normand E, Lrevet F, Ramos M, Billuart P, Chelly J, Herzog E, Humeau Y. Target-specific vulnerability of excitatory synapses leads to deficits in associative memory in a model of intellectual disorder. J Neurosci. 2013 Aug 21;33(34):13805-19. doi: 10.1523/JNEUROSCI.1457-13.2013. PMID: 23966701

Faure C, Ramos M, Girault JA. Pyk2 cytonuclear localization: mechanisms and regulation by serine dephosphorylation. Cell Mol Life Sci. 2013 Jan;70(1):137-52. doi: 10.1007/s00018-012-1075-5. PMID: 22802128

REPAK Emilienne

Session: GP started in Sept 2009 – PhD started in Oct 2010

Doctoral school: ED 158 – UPMC

Thesis title: Characterization of a novel photo-reversible NMDA receptor-specific agonist for precise temporal control of receptor activation.

Thesis director: David DIGREGORIO

PhD defense: 30.09.2014

Position: Operational consultant – **Newton Europe** (United Kingdom).

Laprell L, Repak E, Franckevicius V, Hartrampf F, Terhag J, Hollmann M, Sumser M, Rebola N, DiGregorio DA, Trauner D. Optical control of NMDA receptors with a diffusible photoswitch. Nat Commun. 2015 Aug 27;6:8076. doi: 10.1038/ncomms9076.

SAHEL Aurelia

Session: GP started in Sept 2008 – PhD started in Oct 2009

Doctoral school: ED 158 – UPMC

Thesis title: Neuron-NG2 cell synapses in myelination, remyelination, and multiple sclerosis.

Thesis director: Brahim NAIT-OUMESMAR

PhD defense: 30.09.2013

Position: Reoriented – Medicine School (France).

Sahel A, Ortiz FC, Kerninon C, Maldonado PP, Angulo MC, Nait-Oumesmar B. Alteration of synaptic connectivity of oligodendrocyte precursor cells following demyelination. Front Cell Neurosci. 2015 Mar 17;9:77. doi: 10.3389/fncel.2015.00077. eCollection 2015.

SAKAE Diana

Session: GP started in Sept 2009 – PhD started in Oct 2010

Doctoral school: ED 158 – UPMC

Thesis title: The Vesicular Glutamate Transporter type three in the nucleus accumbens and the regulation of reward and cocaine intake.

Thesis director: Salah EL MESTIKAWY

PhD defense: 11.04.2014

Position: PostDoc – University of Dundee (United Kingdom) – **Stephen MARTIN's** lab.

Diana Yae Sakae, Fabio Marti, Salvatore Lecca, Florence Vorspan, Elena Martín-García, Lydie Jacqueline Morel, Annabelle Henrion, Javier Gutiérrez-Cuesta, Antoine Besnard, Nicolas Heck, Etienne Herzog, Susanne Bolte, Vania F. Prado, Marco A.M. Prado, Frank Bellivier, Chin B. Eap, Séverine Crettol, Peter Vanhoutte, Jocelyne Caboche, Alain Gratton, Luc Moquin, Bruno Giros, Rafael Maldonado, Stéphanie Daumas, Manuel Mameli, Stéphane Jamain, Salah El Mestikawy. *The absence of VGLUT3 predisposes to cocaine abuse by increasing dopamine and glutamate signaling in the nucleus accumbens* *Mol Psychiatry*. 2015 Nov;20(11):1448-59. doi: 10.1038/mp.2015.104. Epub 2015 Aug 4.

SKVORTSOVA Vasilisa

Session: GP started in Sept 2010 – PhD started in Oct 2011

Doctoral school: ED 158 – UPMC

Thesis title: Neural mechanisms of instrumental learning: neuroimaging, pharmacological and stimulation studies in humans.

Thesis director: Mathias PESSIGLIONE

PhD defense: 17.09.2015

Position: PostDoc – Ecole Normale Supérieure (France) – **Etienne KOEHLIN's** lab.

Skvortsova V, Palminteri S, Pessiglione M. *Learning to minimize efforts versus maximizing rewards: computational principles and neural correlates*. *J Neurosci*. 2014 Nov 19;34(47):15621-30. doi: 10.1523/JNEUROSCI.1350-14.2014.

STERNBERG Jenna

Session: GP started in Sept 2011 – PhD started in Nov 2012

Doctoral school: ED 158 – UPMC

Thesis title: Neuronal populations underlying locomotion in the zebrafish.

Thesis director: Claire WYART

PhD defense: 20.09.2016

Position: PostDoc – Institut du Cerveau et de la Moëlle épinière (France) – **Claire WYART's** lab.

Sternberg JR, Severi KE, Fidelin K, Gomez J, Ihara H, Alcheikh Y, Hubbard JM, Kawakami K, Suster M, Wyart C. *Optimization of a Neurotoxin to Investigate the Contribution of Excitatory Interneurons to Speed Modulation In Vivo*. *Curr Biol*. 2016 Sep 12;26(17):2319-28. doi: 10.1016/j.cub.2016.06.037.PMID: 27524486

Sternberg JR, Wyart C. *Neuronal wiring: linking dendrite placement to synapse formation*. *Curr Biol*. 2015 Mar 2;25(5):R190-1. doi: 10.1016/j.cub.2015.01.006. PMID: 25734265

Olivier Mirat, **Sternberg JR**, Kristen E. Severi and Claire Wyart. *ZebraZoom: an automated program for high-throughput behavioral analysis and categorization*. *Front Neural Circuits*. 2013 Jun 12;7:107. doi: 10.3389/fncir.2013.00107. PMID: 23781175

Lauterbach MA, Ronzitti E, **Sternberg JR** Wyart C, Emiliani V. *Fast Calcium Imaging with Optical Sectioning via HiLo Microscopy*. *PLoS One*. 2015 Dec 1;10(12):e0143681. doi: 10.1371/journal.pone.0143681.PMID: 26625116

De Vico Fallani F, Corazzol M, **Sternberg JR** Wyart C, Chavez M. *Hierarchy of neural organization in the embryonic spinal cord: granger-causality graph analysis of in vivo calcium imaging data*. *IEEE Trans Neural Syst Rehabil Eng*. 2015 May;23(3):333-41. doi: 10.1109/TNSRE.2014.2341632. Epub 2014 Aug 6. PMID: 25122836

TELENCZUK KRAMAREK Maria

Session: GP started in Sept 2011 – PhD started in Oct 2012

Doctoral school: ED 158 – UPMC

Thesis title: Intracellular and extracellular signatures of action potentials initiated in the axon.

Thesis director: Romain BRETTE

PhD defense: 23.09.2016

Position: PostDoc – Unité de Neurosciences, information et complexité (France) – **Alain DESTEXHE's** lab.

Bazelot M, **Teleńczuk MT**, Miles R. Single CA3 pyramidal cells trigger sharp waves in vitro by exciting interneurons. *J Physiol.* 2016 May 15;594(10):2565-77. doi: 10.1113/JP271644. PMID: 26728572

Le Duigou C, Simonnet J, **Teleńczuk MT**, Fricker D, Miles R. Recurrent synapses and circuits in the CA3 region of the hippocampus: an associative network. *Front Cell Neurosci.* 2014 Jan 8;7:262. doi: 10.3389/fncel.2013.00262. PMID: 24409118. Review.

TINTERRI Andrea

Session: GP started in Sept 2012 – PhD started in Oct 2013

Doctoral school: ED 515 – UPMC

Thesis title: From fate specification to circuit formation within the basal ganglia.

Thesis director: Sonia GAREL

PhD defense: 30.09.2016

Position: PostDoc – Institut de Biologie de l'Ecole Normale Supérieure (France) – **Sonia GAREL's** lab.

Wu Jinjin

Session: GP started in Sept 2010 – PhD started in Oct 2011

Doctoral school: ED 419 – Université Paris-Sud

Thesis title: Neural Bases of Breathing in the Mouse : Monosynaptic Tracing and Genetic Dissection of Phrenic Premotor Neurons.

Thesis director: Gilles FORTIN

PhD defense: 28.06.2016

Position: PostDoc – Institut des Neurosciences Paris-Saclay – **Gille FORTIN's** lab.

YAVUZ Esin

Session: GP started in Sept 2009 – PhD started in Oct 2008

Doctoral school: ED 158 – UPMC

Thesis title: Source separation analysis of visual cortical dynamics revealed by voltage sensitive dye imaging.

Thesis director: Yves FREGNAC

PhD defense: 19.10.2012

Position: Chief Scientist & Cofunder – **Cyanapse** (United Kingdom).

Session: GP and PhD started in Oct 2008

Doctoral school: ED 158 – UPMC

Thesis title: Role of Slit and Robo proteins in the postnatal forebrain

Thesis director: Alain CHEDOTAL

PhD defense: 25.10.2012

Position: PostDoc – University of California (USA) – **John RUBENSTEIN's** lab.

*Minocha S, Valloton D, **Ypsilanti AR**, Fiumelli H, Allen EA, Yanagawa Y, Marin O, Chédotal A, Hornung JP, Lebrand C. Nkx2.1-derived astrocytes and neurons together with Slit2 are indispensable for anterior commissure formation. Nat Commun. 2015 Apr 23;6:6887. doi: 10.1038/ncomms7887. PMID: 25904499*

*Cariboni A, Andrews WD, Memi F, **Ypsilanti AR**, Zelina P, Chedotal A, Parnavelas JG. Slit2 and Robo3 modulate the migration of GnRH-secreting neurons. Development. 2012 Sep;139(18):3326-31. doi: 10.1242/dev.079418. PMID: 22912413*

***Ypsilanti AR**, Zagar Y, Chédotal A. Moving away from the midline: new developments for Slit and Robo. Development. 2010 Jun;137(12):1939-52. doi: 10.1242/dev.044511. PMID: 2050158*

*Saha B, **Ypsilanti AR**, Boutin C, Cremer H, Chédotal A. Plexin-B2 regulates the proliferation and migration of neuroblasts in the postnatal and adult subventricular zone. J Neurosci. 2012 Nov 21;32(47):16892-905. doi: 10.1523/JNEUROSCI.0344-12.2012. PMID: 23175841*

