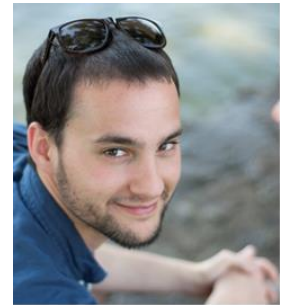


Oriol Pavón Arocas



Permanent address

Telephone

Date of Birth

LinkedIn | Blog

Mobile

Nationality

Spanish

Research Experience

- March – September, 2015 **MSc Thesis | “Sleep regulation in *Drosophila*”**
Centre for Neural Circuits and Behaviour, DPAG, University of Oxford, UK
Used a photoactivatable GFP-based tracing method combined with two-photon laser scanning microscopy to map the neuronal circuitry involved in the homeostatic regulation of sleep in *Drosophila*.
Thesis directors: Prof Dr Gero Miesenböck and Prof Dr Alexander Borst
- January – February, 2015 **MSc Research Project | “Whole-brain preparation for in vitro electrophysiology in the catfish *Ariopsis seemanni*”**
Division of Neurobiology, Faculty of Biology, LMU München, Germany
Establishment of a whole-brain preparation to study the neuronal mechanisms of vocal patterning.
Supervisor: Dr Boris Chagnaud
- October – December, 2014 **MSc Research Project | “Calcium dynamics in the axon initial segment: imaging sources and alterations in demyelination”**
Dept. Axonal Signalling, Netherlands Institute for Neuroscience, Amsterdam, The Netherlands
Combined whole-cell recordings in pyramidal neurons of acute brain slices of mice and rat with OGB-1-based calcium imaging to study calcium dynamics underlying action potential generation.
Supervisors: Prof Dr Maarten H.P. Kole and Dr Marko Popovic
- April – October, 2014 **Research assistant | “Role of Sox2 in the direct lineage reprogramming of astroglia and pericytes into neurons”**
Institute of Physiology, Dept. Physiological Genomics, LMU München, Germany
Worked with human and murine samples performing immunofluorescence stainings for cellular profiling.
Supervisors: Prof Dr Benedikt Berninger and Dr Marisa Karow
- February – April, 2014 **MSc Research project | “Optogenetic manipulation of the Lateral Septum in mice selectively bred for high anxiety-related behaviour”**
Max Planck Institute of Psychiatry, Dept. Stress Neurobiology and Neurogenetics, München, Germany
Bilateral injections of AAV constructs carrying Archaelhodopsin targeting the lateral septum to optogenetically dissect its role on anxiety-related behaviour in open field and elevated plus maze tests.
Supervisor: PD Dr Carsten Wotjak
- October 2012 – June 2013 **BSc Internship | “Facilitation of learning and memory through Intracranial Self Stimulation”**
Institute of Neurosciences, Universitat Autònoma de Barcelona, Spain
Stereotaxic surgery to implant electrodes and perform electrolytic lesions in rats to study how a training protocol of Intracranial Self Stimulation improves learning in two-way shuttlebox avoidance conditioning.
Supervisor: Dr Pilar Segura Torres
- August 2012 **Research Exchange Student** within the International Federation of Medical Students' Associations | **“Effects of the GABAergic system in DMH of rats with haemorrhagic shock”**
Dept. of Medical Pharmacology, Faculty of Medicine, Marmara University, Istanbul, Turkey
Stereotaxic surgeries for cannula implantation in rats, encephalon extraction and cryostat sectioning.
Supervisor: Prof Dr M. Zafer Gören
- October – December, 2011 **Research assistant | “Study of the genetic variability of the hepatitis C genotype 1 virus in relationship to the response at the antiviral treatment”**
Dept. of Microbiology, Hospital Universitari Germans Trias i Pujol, Badalona, Spain
Hemi-nested PCR, electrophoresis in agarose, purification of PCR products, cloning techniques in *E. coli*. Analysis and edition of DNA sequences with the Bioinformatic Program Staden Package.
Supervisor: Dr Elisa Martró
- August – September, 2011 **Summer Internship | Neuroplasticity and Regeneration**
Institute of Neurosciences, Universitat Autònoma de Barcelona, Spain
Performed DNA extraction, genotyping, western blotting, cryostat sectioning and histological stainings in a murine model of spinal cord injury.
Supervisors: Prof Dr Xavier Navarro and Dr Ruben López-Vales
- July 2011 **Summer Internship | Unit of Human Anatomy and Embryology**
Faculty of Medicine, Universitat Autònoma de Barcelona, Spain
Performed micro and macro dissections of the human Central Nervous System.
Supervisor: Dr Rosa Mirapeix

Education

2013 – 2015	Master of Science (MSc), Neurosciences Elite Network of Bavaria, Graduate School of Systemic Neurosciences, Ludwig-Maximilians-Universität München, Germany	German GPA: 1.31
2009 – 2013	Bachelor of Science (BSc), Biomedical Sciences Universitat Autònoma de Barcelona (UAB), Bellaterra (Barcelona), Spain	GPA: 8.39 / 10, top 15%
2003 – 2009	High School and Baccaureate in Sciences IES Quercus, Sant Joan de Vilatorrada (Barcelona), Spain	GPA: 9.2 / 10

Additional Formation

March – July, 2013	Online Course “Synapses, Neurons and Brains”, <i>Hebrew University of Jerusalem through Coursera</i>
Winter 2012	Online Course “Drugs and the Brain”, <i>California Institute of Technology through Coursera</i>
July 2011	“The Neurodegenerative Disease”, a 20 hours Summer Course, <i>University of Barcelona, Spain</i>
July 2011	“Stem Cells: from theory to clinics”, 20 hours Summer Course, <i>III UBISS – University of Barcelona International Summer School, University of Barcelona, Spain</i>
June 2008	Physis 2008, 1 st Physics Summer Camp, <i>Faculty of Physics, University of Barcelona</i>
1994 – 2007	Clarinet player and music student at the Music School of Sant Joan de Vilatorrada, Spain

Scholarships & Awards

March – September, 2015	Erasmus+ Traineeship Scholarship for the MSc Thesis Project in Oxford. <i>European Commission</i>
8.10.2014	Poster Award – Rookie of the Year 2014 – GSN Symposium
October – December, 2014	Erasmus+ Traineeship Scholarship for the MSc Research Project in Amsterdam. <i>European Commission</i>

Skills & Competences

Languages	Catalan and Spanish – Native or bilingual proficiency English – Level C2, Full professional proficiency; German – Level A2, Elementary proficiency
Certificates	German Language Course , level A1/A2, International University Club Munich (IUCM), October 2013 to February 2014 Certificate in Advanced English , Grade B, Council of Europe Level C1, January 2013, University of Cambridge First Certificate in English, Grade B, Council of Europe Level B2, July 2010, University of Cambridge
Technical skills	Two-photon laser scanning microscopy, photoactivatable GFP tracing in <i>Drosophila</i> , simultaneous patch-clamp recordings and calcium imaging in acute brain slices, optogenetics, behavioural assays in mice, sharp electrode intracellular recordings, confocal microscopy, cryostat slicing, rodent stereotaxic surgery, handling of rodents, immunohistochemical stainings, western blot, PCR, two-way shuttlebox avoidance conditioning, electrophoresis, DNA extraction and purification, genotyping.
Computer skills	Experience with software for microscopy image analysis (Image J, Illustrator, Photoshop, and Inkscape), Shuttle Box (Fusion AccuScan Instruments), electrophysiology (Axograph, IGOR Pro, and pCLAMP), calcium imaging (ScanImage, Neuroplex, and IDL), statistics (SPSS, GraphPad) and Microsoft Office™ (Word™, Excel™ and PowerPoint™). Experience programming in MATLAB, Python and IGOR Pro.
Extracurricular activities	Page Editor at Phenotype , Journal of the Oxford University Biochemical Society, since July 2015 Organizer of a weekly Journal Club on Learning and Memory for the MSc Neurosciences at the Graduate School of Systemic Neurosciences in Munich, Summer Semester of 2014 Member, Science Communicator and Web Designer/Curator of the Asociación Juvenil de Biomédicos de la UAB, since September 2014 – https://biomedicinauab.wordpress.com/ Judo – 2 nd DAN black belt

Meeting Attendance

March 2015	Oxford Neuroscience Symposium, Oxford, United Kingdom
September 2014	Forum on Brain Health and Neurorestoration, Barcelona, Spain
February 2014	Interact Life Symposium for Young Scientists, Munich, Germany
July 2012	8th FENS Forum of Neuroscience, CCIB, Barcelona, Spain
October 2011 – June 2012	Series of lectures “The Brain invades the City”, a Formative Programme in Neurosciences, Barcelona