



☎ 06 60 23 60 78
✉ loriol@ucsd.edu
📍 69002 Lyon
📅 15/07/1991

SKILLS

Organization
Rigor
Presentation et communication
Team work
Versatility

LANGUAGES

French : native
English : bilingual

INTEREST

Photography
Ballet
Reading

OTHER

First aid and CPR
Driver's license

LUCIE ORIOL, PH.D.

Passionate about biomedical research and neuroscience, I am particularly interested in projects aimed at developing new therapies. I am motivated by initiatives that have a direct positive impact on patients' lives, as well as those that contribute to long-term sustainability for our society. My research efforts have so far encompassed projects focused on developing new treatments for depression, multiple sclerosis, spinal cord injuries, and Alzheimer's disease, as well as on the etiology of addiction. I have had the opportunity to develop my skills in various environments, including academia and startups. I am ready to join your team!

PROFESSIONAL RESEARCH EXPERIENCE

Graduate Student 2018 - 2024
Hnasko Lab, University of California San Diego, San Diego

- Development of a set of viral tools for *in vivo* labeling of neurotransmitter vesicular transporter using electron microscopy probes
- Tracing of axonal projections of the Ventral Tegmental Area (VTA) by neurotransmitter and markers subtypes
- Functional assessment of intra-VTA connectivity using slice electrophysiology and pharmacology
- Day to day supervision of two undergraduate recipients of research fellowship

Research and operation manager 2015 - 2018
Novoron Bioscience, San Diego

- Responsible for recombinant protein production and purification
- Optimization and process development
- *In vitro* assessment of novel therapeutics for Alzheimer's disease
- Mentoring interns

Researcher 2016 - 2018
Naviaux Lab, University of California San Diego, San Diego

Assessed *in vivo* metabolomics of Novoron's lead compound for multiple sclerosis as an anti-inflammatory agent

Research assistant 2014
Sup'Biotech, Paris

Created and presented seminar about scientific research ethics, using flu as a case study

Research assistant intern 2013
Theranexus, Paris

Performed *in vivo* identification of antidepressant pharmacologic modulators in rodents

Laboratory technician intern 2012
École Normale Supérieure, Lyon

Published research on plasmon surface microscopy for blood cell characterization

LABORATORY TECHNIQUES

In vivo

Stereotaxic surgery: Injections and implants

Optogenetics and chemogenetics

Behavioral studies

Rodent care: Subcutaneous and intraperitoneal injections, and blood sampling

Intracardiac perfusions

Ex-vivo

Patch-clamp electrophysiology

Pharmacology

Optogenetics

Immunohistochemistry

In-vitro

Recombinant proteins: production and purification

Immunoprecipitation

Chromatography: FPLC and HPLC

Cell culture

Cloning

Other

Fluorescent and confocal microscopy

Experimental design

Troubleshooting

Managment and maintenance

EDUCATION

Ph.D. in Biomedical Sciences	2024
University of California San Diego, San Diego	
Micro-MBA Certification	2022
Rady's School of Management, San Diego	
Master of Science: Biotechnology Engineering	2015
Sup'Biotech, Paris	
Bachelor of Science: Biotechnology Engineering	2013
Sup'Biotech, Paris	

PUBLICATIONS

L. Oriol , M. Chao, G. Kollman, D. Dowlat, S. Singhal, T. Steinkellner, T. Hnasko "Ventral tegmental area interneurons revisited: GABA and glutamate projection neurons make local synapses" <i>Elife</i>	2024
L. Faget, L. Oriol , W.C. Lee, C. Sargent, D. Ramanathan, and T.S. Hnasko, "Ventral pallidum GABA and glutamate neurons drive approach and avoidance through distinct modulation of VTA cell types" <i>Nature Communication</i>	2024
W.S. Conrad, L.Oriol , G. Kollman, L. Faget, T.S. Hnasko, "Proportion and distribution of neurotransmitter-defined cell types in the ventral tegmental area and substantia nigra pars compacta" <i>Addiction Neuroscience</i>	2024
A. Flores, L. Oriol , T. Steinkellner, J. Hu, M. Mackey, A. Grewal, D. Boassa, T.S. Hnasko "Genetically-encoded probes for labeling neurotransmitter-defined synaptic vesicles" <i>in prep</i>	2024
E. Boyer-Provera, A. Rossi, L. Oriol , C. Dumontet, A. Plesa, L. Berguiga, J. Elezgaray, A. Arneodo, and F. Argoul, "Wavelet-based decomposition of high resolution surface plasmon microscopy V(Z) curves at visible and near infrared wavelengths" <i>Optics Express</i>	2013