

LUCIE ORIOL, PH.D.

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Passionate about biomedical research and neuroscience, my academic training and professional experience have been driven by a clear objective: contributing to advances in human health. Driven by a commitment to scientific rigor, I seek to contribute to programs where high scientific standards and robust data translate into meaningful patient impact.

EDUCATION

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| 2024 | Biomedical Sciences Ph.D. , University of California San Diego |
| 2022 | Micro-MBA program , University of California San Diego, Rady School of Management |
| 2015 | Master of Science cum laude , Biotechnology Engineering, Sup'Biotech, Paris, France
Specializing in neuroscience research & development |
| 2013 | Bachelor of Science , Biotechnology Engineering, Sup'Biotech, Paris, France |

PROFESSIONAL EXPERIENCE

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| 2025 | INSERM U1028 , postdoctoral researcher, Lyon, <i>Current</i>

Investigating the interplay between stress and epilepsy to better understand disease mechanisms and identify biomarkers predictive of seizure occurrence. Combining molecular, electrophysiological, fiber photometry, and behavioral approaches to generate translational insights. |
| 2018 - 2024 | Hnasko Lab, University of California San Diego , graduate student researcher, 6 years, San Diego <ul style="list-style-type: none">• Studying the organization of ventral tegmental area circuitry to better understand the neural mechanisms underlying reward and addiction. Integrating genetic, anatomical, and electrophysiological approaches to reveal previously unrecognized circuit architecture with implications for neuropsychiatric disease.• Recruited, trained, and mentored two undergraduate research fellows, supporting their technical development and scientific independence.• Contributed to a multi-laboratory collaboration developing novel viral tools by fostering communication between research groups, supporting molecular tool development, and providing technical training.• Presented original research at three international scientific conferences, engaging with researchers across diverse areas of neuroscience. |
| 2015 - 2018 | Novoron , Research & Operations Manager, 3 years, San Diego <ul style="list-style-type: none">• Optimized recombinant protein production and purification workflows to support preclinical therapeutic development.• Evaluated therapeutic candidates using cell-based models of Alzheimer's disease, contributing to the preclinical assessment of regenerative therapies.• Coordinated laboratory operations and scientific collaborations, working closely with company leadership and external scientific experts to support research and development activities. |
| 2016 - 2018 | Naviaux Lab, University of California San Diego , Collaborator, 18 months, San Diego

Evaluated the in vivo metabolic effects of a Novoron therapeutic candidate for multiple sclerosis through an academic-industry collaboration, contributing to the preclinical assessment of its anti-inflammatory potential. |

2014	Sup'Biotech , Social and Human Sciences Research Assistant, 6 months, Paris, France Designed and presented a seminar on research ethics using influenza as a case study to promote scientific integrity and responsible research practices among students.
2013	Theranexus , Engineering Research Assistant, 4 months (internship), Paris, France Evaluated pharmacological modulators to improve antidepressant efficacy using in vivo polysomnographic assessment in a combination therapy setting.
2012	École Normale Supérieure , Laboratory Technician, 2 months (internship), Lyon, France Characterized blood cells using surface plasmon microscopy to support the development of diagnostic approaches for leukemia.

SKILLS

PROFESSIONAL SKILLS

- Scientific communication & presentations
- Experimental design
- Project coordination & organization
- Cross-functional collaboration
- Scientific rigor & critical thinking
- Adaptability & problem solving

LANGUAGES

English (bilingual)
French (native)

PRECLINICAL NEUROSCIENCE

In vivo

- Stereotaxic surgery
- Fiber photometry
- Optogenetics & chemogenetics
- Behavioral neuroscience
- Rodent handling & welfare

Cellular & circuit neuroscience

- Patch-clamp electrophysiology
- Functional pharmacology
- Immunohistochemistry
- Fluorescence & confocal microscopy

Molecular biology

- Mammalian cell culture
- Molecular cloning
- Recombinant protein production & purification
- Immunoprecipitation

Research operations

- Experimental design
- Method development & optimization
- Laboratory management

PUBLICATIONS

2026	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 preparation</i>
2025	S.M. Warlow, D.S. Dowlat, N.H. Hollon, L. Faget, L. Oriol , V. Zell, L.S. Zweifel, T.S. Hnasko "GABA-glutamate corelease is a mechanism for state-dependent neurotransmission" <i>in press</i>
2024	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 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." *Addiction neuroscience*
- 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." *Nature Communications*
- 2013 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." *Optics Express*

Selected references

Thomas S. Hnasko, Ph.D.
Professor of Neuroscience
University of California San Diego

Travis Stiles, Ph.D.
Chief Executive Officer
Novoron Bioscience