

Georgia Rapti, Ph.D

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SCIENTIFIC EDUCATION

Ph.D. Cellular Molecular Biology	University Paris Diderot, France <i>Degree with High Honors</i>	09/2006 - 11/2010
	<i>“Mechanisms of synaptic localization of acetylcholine receptors at the C. elegans neuromuscular junction”</i>	
M.S. Genetics	University Paris Diderot, France <i>Degree with Honors</i>	09/2005 - 08/2006
	<i>Thesis: “Genomic engineering of acetylcholine receptors in C. elegans”</i>	
B.S. Biology	University of Athens, Greece <i>Degree with Honors</i>	09/2001 - 09/2005
	<i>Thesis: “Interactions of Homer proteins with Alzheimer’s protagonist, amyloid precursor protein”</i>	

ACADEMIC RESEARCH APPOINTMENTS

The European Molecular Laboratory , EMBL, Heidelberg, Germany Group Leader of the Rapti group , Developmental Biology Unit	12/2019 – Present
The Rockefeller University , New York, USA Post-doctoral fellow, Advisor: Dr. Shai Shaham	04/2011 – Present
École Normale Supérieure , Paris, France Ph.D. student, Advisor: Dr. Jean-Louis Bessereau	9/2006 - 11/2010
École Normale Supérieure , Paris, France M.S. student, Advisor: Dr. Jean-Louis Bessereau	9/2006 - 11/2010
Department of Biology, University of Athens , Athens, Greece Bs intern student, Advisor: Dr. Spiros Efthimiopoulos	10/2004 - 09/2005

ACADEMIC TEACHING APPOINTMENTS

Lecturer, IZN lecture series, University degree programs, University of Heidelberg	2021- present
Adjunct Assistant Lecturer, City College of New York (CCNY), Honors Program (CCNY teaching module: Science 10001, Bachelor’s level, Responsibilities: Curriculum design, 52 lecture hours, assignment, journal club, exams, grading)	08-12/2012

SELECT LEADERSHIP / PROFESSIONAL ACTIVITIES

Main organizer, EMBL course 2022: C. elegans: from genome editing to imaging	2021- 2022
Associate Member, Women in Cell Biology Committee , American Society Cell Biology	2022- present
Member of the Interdisciplinary Center for Neurosciences , IZN, Heidelberg, Germany	2020- present
Guest-editor, Journal of Neurogenetics, Special issue on Brenner & Sulston	2019- 2021
Main Organizer, Glia Symposium NYC : Program design, website design/generation, fundraising (funds by Kavli, Leon Levy, Glenn Foundations, Company of Biologists, Cell Press, Calico, Leica, Zeiss	2018
Peer review referee in journals, Nature, Elife, Development, Dev. Biol., J Neurogenet.	2017- present

SELECT ACADEMIC AND PROFESSIONAL FUNDING

Kavli Foundation Pilot grant for postdoctoral research	2017-2018
Leon-Levy Foundation Post-doctoral fellowship	2011-2013
EMBO Post-doctoral long-term fellowship	2011-2013
Association Française des Myopathies (AFM) Graduate fellowship	2009-2010

French Ministry of Education Graduate full stipend fellowship 2006-2009
[Bodossakis Foundation](#) 2 year M. S. full stipend scholarship 2005-2006

SELECTED ACADEMIC AWARDS & HONORS

Travel Award 22nd International C. elegans Conference 2019
Travel Award EMBO/ ASCB doorstep meeting 2017
Career Development Award, PDA, The Rockefeller University 2016
Outstanding poster award, First Distinction, 15th European Worm Meeting 2006
Onassis Foundation Scholarship, Travel Award 2004
Outstanding Annual Performance award, Dean's List, University of Athens 2001-2004
First Rank University Honors award, Dean's List, University of Athens 2001-2004

PUBLICATIONS

Peer-reviewed publications

- **Rapti G***, **Frontiers in Neuroscience** (2022), Open frontiers in neural cell type investigations; lessons from C. elegans and beyond, towards a multimodal integration, *Front. Neurosci.*, 2022 March 07, invited review, doi.org/10.3389/fnins.2021.787753
- **Rapti G***, **Journal of Neurogenetics**. (2021), A perspective on C. elegans neurodevelopment: from early visionaries to booming neuroscience research *J of Neurogenet*, 2021 Jan 14: 259-272. doi.org/10.1080/01677063.2020.1837799
- Alcedo J, Jin Y, Portman DS, Prahlad V, Raizen D, **Rapti G**, et al, **Journal of Neurogenetics**. (2021) Nature's gift to neuroscience. *J Neurogenet*, 2021 Jan 14: 223-224. doi.org/10.1080/01677063.2020.1841760
- **Rapti G***, Li C, Shan A, Lu Y, Shaham S.* **Nature Neuroscience**. (2017) *Corresponding author Glia initiate C. elegans brain assembly through non-canonical Chimaerin/Furin axon guidance. *Nat Neurosci*. 2017 Oct;20(10):1350-1360. doi.org/10.1038/nn.4630
- Boulin T, **Rapti G** ¶, Briseño-Roa L ¶, Stigloher C ¶, Richmond J, Paoletti P, Bessereau JL. **Nature Neuroscience** (2012) ¶ Equal contribution Positive modulation of a Cys-loop acetylcholine receptor by an auxiliary transmembrane subunit. *Nat Neurosci*. 2012 Oct;15(10):1374-81. doi.org/10.1038/nn.3197
- **Rapti G**, Richmond J, Bessereau JL. **EMBO Journal** (2011) A single immunoglobulin-domain protein required for clustering acetylcholine receptors in C. elegans. *EMBO J*. 2011 Feb 16;30(4):706-18. [doi: 10.1038/emboj.2010.355](https://doi.org/10.1038/emboj.2010.355)
- Gendrel M., **Rapti G**, Richmond J, Bessereau JL. **Nature** (2009) A secreted complement-control-related protein ensures acetylcholine receptor clustering. *Nature*. 2009 Oct 15;461(7266):992-6. doi.org/10.1038/nature08430
- Parisiadou L, Bethani I, Michaki V, Krousti K, **Rapti G**, Efthimiopoulos S. **Neurobiology of Disease**. (2008) Homer2 and Homer3 interact with amyloid precursor protein and inhibit Abeta production. *Neurobiol Dis*. 30:353-364. (2008) [doi: 10.1016/j.nbd.2008.02.004](https://doi.org/10.1016/j.nbd.2008.02.004)

Non peer-reviewed invited publications

- **Rapti G**, *The Node*, 2017 [Glia lead the way for pioneers to build the brain neuropil in C. elegans](#)

SELECTED INVITED LECTURES

IZN Interdisciplinary Center for Neurosciences, Invited Concept talk, Heidelberg, Germany 2021
Albert Einstein College of Medicine, New York, USA 2019

Duke University, Durham, USA	2019
FMI, Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland	2019
EMBL, Developmental Biology Unit, Heidelberg, Germany	2018
SPPIN, Saint-Pères Paris Institute for the Neurosciences, Paris, France	2018
IBENS, <i>École Normale Supérieure</i> , Paris, France	2018
IBPS, Institute of Biology Paris-Seine, Paris, France	2018
IMBB, Institute of Molecular Biology & Biotechnology, Crete, Greece	2017
ULB, Université Libre de Bruxelles, Brussels, Belgium	2017
Institut NeuroMyoGene, Lyon, France	2017
IMBB, Institute of Molecular Biology & Biotechnology, Crete, Greece	2008

SELECTED CONFERENCE PARTICIPATION WITH ORAL PRESENTATION

XV European Meeting on Glial Cells in Health and Disease virtual- Invited workshop talk	2021
22nd International Worm Meeting, UCLA , Los Angeles, USA – Invited, Glial cell workshop	2019
22nd International Worm Meeting, UCLA , Los Angeles, USA- Session talk	2019
7 th International CSHL Conference, Glia in health and disease, CSHL, USA	2018
EMBO workshop: C. elegans Development, Cell biology, Gene Expression , Barcelona, Spain	2018
21 st International Worm Meeting, UCLA, Los Angeles, USA	2017
New York Area C. elegans meeting, NYU, NYC, USA	2017
18th Gordon Conference on Neural Development , Newport, USA	2016
6 th International CSHL Conference, Glia in health and disease, CSHL, USA	2016
20th International Worm Meeting, UCLA , Los Angeles, USA	2015
C. elegans Topic Meeting, Development, Cell Biology & Gene Expression , Japan	2014
17th International Worm Meeting , UCLA, Los Angeles, USA	2009

SELECTED CONFERENCE PARTICIPATION WITH POSTER PRESENTATION

[ASCB/EMBO 2017 meeting](#), 2017 (Philadelphia, USA), International Conference, Glia in health & disease, 2012, (CSHL, USA), EMBO Conference: C.elegans Neurobiology 2012 (Heidelberg, Germany), C. elegans Neuroscience meeting, 2010 (Madison, USA), International Worm Meeting, 2007 (Los Angeles, USA)

LABORATORY SUPERVISION/ MENTORING/TEACHING & OUTREACH EXPERIENCE

Mentoring of Staff scientists, PhD students & Master students & Bachelor’s interns, assistants

Gaurav Vaidya, Graduate fellow - Primary institution: EMBL, University of Heidelberg	2021-present
Mahak Bhushan, Master student, Integrated Bsc-Ms IISER, Kolkata India	2021-present
Spyridon Roumeliotis, Master student, Sorbonne University, Paris	03 - 08/2021
Nick Marschlich, Nikolaos Georgakopoulos - Master students, University of Heidelberg	2021-present
Chiara Mungo, Master student - Primary institution: University of Milan	2020-present
Laura Sabou, Graduate fellow - Primary institution: EMBL, University of Heidelberg	2019-present
Francesca Coraggio, PhD graduate, Staff scientists - Primary institution: EMBL, Heidelberg	2019-present
Jira White, as Gateways fellow (current position, Claflin University)	06-08/2018
Chang Li, as research assistant (currently: Research Associate, Cedars-Sinai)	2015-2016
Alan Shan, as research assistant (currently: PhD candidate, Johns Hopkins)	2013-2014
Master student: Anupriya Singhal - (currently: PhD Weill Cornell Medical College)	2011-2012
Justin Chao, Maria Nattestad, SURF fellows (currently: Ph.D., UC Berkeley, OMG Genomics)	2011-2012

PROFESSIONAL MEMBERSHIPS

Society for Neuroscience ([SfN](#)), American Society of Cell Biology ([ASCB](#)), Genetics Society of America ([GSA](#))

LANGUAGES

English (proficient), French (proficient), Greek (native speaker)