

MARIBEL PATINO, M.D., PH.D.

patinomdphd.com

EDUCATION

University of California, San Diego Psychiatry Residency: Research Track	07/2024 - Present
University of California, San Diego Doctor of Medicine	08/2016 - 06/2024 USMLE STEP 1: 256 USMLE STEP 2: 254 GPA: 4.00
Doctor of Philosophy in Neuroscience	
University of California, Berkeley Molecular and Cell Biology: Neurobiology B.A. High Distinction in General Scholarship Departmental Honors in Molecular and Cell Biology	08/2010 - 08/2014 GPA: 3.87

RESEARCH TRAINING

2018 – 2022	Graduate Student, UC San Diego, Advisor: Edward M. Callaway, Ph.D.
2014 – 2016	Post-bacc Researcher, University of Pennsylvania, Advisor: Edward B. Lee, M.D., Ph.D.
2013 – 2014	Undergraduate Researcher, UC Berkeley, Advisor: Daniela Kaufer, Ph.D.
2012	Undergraduate Researcher, UC San Francisco, Advisor: Synthia Mellon, Ph.D.

GRANTS AND FELLOWSHIPS

2025 – 2026	American Psychiatric Association SAMHSA Fellow (\$12.5K)
2024 – Present	NIH R25 Psychiatry Research Residency Training Track
2020 – 2022	Paul and Daisy Soros Fellowship for New Americans (\$90K)
2020 – 2022	Society for Neuroscience - Neuroscience Scholars Program Fellow (\$7K)
2019 – 2022	NIH NEI R01 Diversity Supplement (\$115K)
2016 – 2024	NIH T32 Medical Scientist Training Program
2014 – 2016	University of Pennsylvania NIH PREP Training Grant (\$64K)
2013 – 2014	National Science Foundation California Alliance for Minority Participation Scholar(\$10K)
2013 – 2014	UC Berkeley Bergeron Scholar (Full Tuition Scholarship)
2013	UC Berkeley Biology Fellows Program Scholar (\$4K)

AWARDS, HONORS AND RECOGNITION

2025	The American College of Psychiatrists PRITE Fellowship
2024	UCSD Department of Psychiatry Senior Award
2024	UCSD CAPIE Fellowship (\$5K)
2023	UC President's Award for Outstanding Student Leadership (\$1.5K)
2022	Tylenol Future Care Scholarship Semi-Finalist
2022	Hispanic Scholarship Fund/ Wells Fargo Foundation (\$500)
2022	8th Annual BRAIN Initiative Meeting Trainee Highlight Award (\$1K)
2022	UCSD Neuroscience Program Community Leadership Award (\$500)
2022	Bouchet Graduate Honor Society (\$500)
2017	Hispanic Scholarship Fund Award / Anheuser Busch Endowment (\$500)
2016	Hispanic Scholarship Fund Award / Hearst Endowment (\$4.5K)
2015	NIH PREP Regional Symposium Oral Presentation Award (1st Place)
2014	Phi Beta Kappa Honor Society
2014	UC Berkeley MCB Department I.L. Chaikoff Award (\$500)

2014	NSF CAMP Regional Symposium Presentation Award
2014	UC Berkeley Student Opportunity Fund Conference Travel Award (\$400)
2014	IvyPlus Symposium Travel Award
2014	Annual Biomedical Conference for Minority Students Travel Award
2014	UC Berkeley NERDS Professional Development Grant (\$300)
2014	Harvard New England Science Symposium Travel Grant
2014	Benjamin A. Gilman International Scholarship (Deferred)
2013	UC Berkeley Cal Alumni Association Leadership Award

PUBLICATIONS

6. **Patino, M.**, Acosta-Mercado, L., Zamora, G., Ruiz, E., Shapiro, D. (2025) Bridging the Gap: Advancing Latine Representation in Child and Adolescent Psychiatry Amidst US Demographic Shifts. *Journal of the American Academy of Child and Adolescent Psychiatry*, S0890-8567(24)02064-1. <https://doi.org/10.1016/j.jaac.2024.12.004>.
5. **Patino, M.***, Rossa, M.*, Lagos, W., Patne, N.S, Callaway, E.M. (2024) Transcriptomic cell-type specificity of local cortical circuits. *Neuron*, 112(23), 3851-3866.e4. <https://doi.org/10.1016/j.neuron.2024.09.003>
***Authors contributed equally to work.**
4. Cazares, C.*, **Patino, M.***, Contreras, M., Gorman, J.C., Burgado, J., Ali, S.A., van Engen, Q., Kosik, E.L., Riviere, P., Baltz, E.T., Agba, C.K., Preston, M., Nagarajan, A., Cressy, J., Paredes, N., Santiago, C., White, K.L. (2024) A trainee-informed model for undergraduate neuroscience research programs serving marginalized students. *Nature Neuroscience*, 27(11), 2047-2052. <https://doi.org/10.1038/s41593-024-01790-5> ***Authors contributed equally to work.**
3. **Patino, M.**, Lagos, W. N., Patne, N. S., Miyazaki, P. A., Callaway, E.M. (2023) Postsynaptic cell type and synaptic distance do not determine efficiency of monosynaptic rabies virus spread measured at synaptic resolution. *eLife*, 12, e89297. <https://doi.org/10.7554/eLife.89297>
2. **Patino, M.**, Lagos, W. N., Patne, N. S., Tasic, B., Zeng, H., Callaway, E. M. (2022). Single-cell transcriptomic classification of rabies-infected cortical neurons. *Proceedings of the National Academy of Sciences*, 119(22), e2203677119. <https://doi.org/10.1073/pnas.2203677119>
1. Cali, C. P.*, **Patino, M.***, Tai, Y. K.*, Ho, W. Y., McLean, C. A., Morris, C. M., Seeley, W. W., Miller, B. L., Gaig, C., Vonsattel, J. P. G., White, C. L., Roeber, S., Kretzschmar, H., Troncoso, J. C., Troakes, C., Gearing, M., Ghetti, B., Van Deerlin, V. M., Lee, V. M.-Y., Lee, E. B. (2019). C9orf72 intermediate repeats are associated with corticobasal degeneration, increased C9orf72 expression and disruption of autophagy. *Acta Neuropathologica*, 138(5), 795-811. <https://doi.org/10.1007/s00401-019-02045-5>. ***Authors contributed equally to work.**

CONFERENCE ACTIVITY

Research Talks

8. **Patino, M.**, Rossa, M., Lagos, W., Patne, N.S, Callaway, E.M. Transcriptomic identification of input cells to defined neuronal populations with Single Transcriptome Assisted Rabies Tracing (START). 8th Annual Brain Initiative Meeting, Virtual, June 2022.
7. **Patino, M.**, Rossa, M., Lagos, W., Patne, N.S, Callaway, E.M. Transcriptomic identification of input cells to defined neuronal populations with Single Transcriptome Assisted Rabies Tracing (START). UCSD Neuroscience Graduate Program Retreat, Lake Arrowhead, CA, May 2022.
6. **Patino, M.**, Callaway, E.M. Combining Rabies Tracing with Single Cell Transcriptomics to Identify Input Cells. CEMBA: Center for Epigenomics of the Mouse Brain Atlas Scientific Retreat, San Diego, CA, November 2021.

5. **Patino, M.**, Callaway, E.M. START: Single Transcriptomic Assisted Rabies Tracing. NeuroNex3 Investigator Meeting, Virtual, October 2020.
4. **Patino, M.**, Miyazaki, P.L.A., Callaway, E.M. Monosynaptic Rabies Tracing Efficiency. Integrative Circuit Cracking NeuroNex Meeting, Stanford, CA, August 2019.
3. **Patino, M.**, Lee, E.B. High-throughput screening assay to identify compounds that stabilize C9orf72 RNA:DNA hybrids. 4th Annual NIH Post-Baccalaureate Research Education Program Regional Symposium, Bronx, NY, April 2015.
2. **Patino, M.**, Vazquez, O., Kaufer, D. Temporal analysis of proliferation and neurogenesis in the dentate gyrus of the adult hippocampus in the albumin exposure model of epilepsy. UC Berkeley MCB Neurobiology Honors Symposium, Berkeley, CA, May, 2014.
1. **Patino, M.**, Mellon, S. Allopregnanolone treatment for neurodegenerative disorders. UCSF/Kaiser Permanente Undergraduate Research Internship Symposium, San Francisco, CA, August 2012.

Research Posters

11. **Patino, M.**, Rossa, M., Lagos, W., Patne, N.S., Callaway, E.M. Laminar connectivity of mouse primary visual cortex examined using Single Transcriptome Assisted Rabies Tracing (START). Society for Neuroscience, San Diego, CA, November 2022.
10. **Patino, M.**, Callaway, E.M. Combining Rabies Tracing with Single Cell Transcriptomics to Identify Input Cells. CNCM Cajal Club Conference, Irvine, CA, August 2021.
9. **Patino, M.**, Callaway, E.M. START: Single Transcriptomic Assisted Rabies Tracing. NeuroNex3 Investigator Meeting, Virtual, October 2020.
8. **Patino, M.**, Miyazaki, P.L.A., Callaway, E.M. Monosynaptic Rabies Tracing Transsynaptic Spread Efficiency. NeuroNex Investigator Meeting, Chicago, IL, October 2019.
7. **Patino, M.**, Crowe, A., Goodman, L., Darwich, N., Brunden, K., Bonini, N., Lee, E.B. Screening assay to identify compounds that reduce C9orf72 induced toxicity. 5th Annual NIH Post-Baccalaureate Research Education Program Regional Symposium, New York, NY, May 2016.
6. **Patino, M.**, Lee, E.B. High-throughput screening assay to identify compounds that stabilize C9orf72 RNA:DNA hybrids. Annual Biomedical Research Conference for Minority Students, Seattle, WA, November 2015.
5. **Patino, M.**, Vazquez, O., Kaufer, D. Temporal analysis of proliferation and neurogenesis in the dentate gyrus of the adult hippocampus in the albumin exposure model of epilepsy. New England Science Symposium, Boston, MA, April 2014.
4. **Patino, M.**, Vazquez, O., Kaufer, D. Temporal analysis of proliferation and neurogenesis in the dentate gyrus of the adult hippocampus in the albumin exposure model of epilepsy. Ivy Plus Symposium, Boston, MA, March 2014
3. **Patino, M.**, Vazquez, O., Kaufer, D. Albumin increases proliferation and neurogenesis in the dentate gyrus of the adult hippocampus. National Science Foundation California Alliance for Minority Participation Symposium, Irvine, CA, February 2014.
2. **Patino, M.**, Vazquez, O., Kaufer, D. Albumin increases proliferation and neurogenesis in the dentate gyrus of the adult hippocampus. Annual Biomedical Research Conference for Minority Students, Nashville, TN, November 2013.
1. **Patino, M.**, Vazquez, O., Kaufer, D. Albumin increases proliferation and neurogenesis in the dentate gyrus of the adult hippocampus. UC Berkeley Biology Scholars Program Symposium, Berkeley, CA, August 2013

LEADERSHIP POSITIONS

2024 – Board of Directors: Colors of the Brain 501(c)(3) Nonprofit
2022 – Advisory Board Member: CoB-KIBM Scholars Program
2022 – Co-Founder: BrainBorders
2022 – 2024 Consultant: Nucleate Dojo Grants
2020 – 2024 Graduate Student Mentor: STARTNeuro
2020 – 2022 Co-Founder and Assistant Program Coordinator: UCSD CoB-KIBM Scholars Program
2018 – 2020 Diversity Committee Student Chair: UCSD Neuroscience Graduate Program
2016 – 2024 Medical Student Mentor: UCSD Chicanos/Latinos for Community Medicine
2016 – 2019 Medical Student Mentor: UCSD Pre-Health Advising by Medical Students
2016 – 2019 Medical Student Mentor: UCSD School of Medicine Mentors
2016 – 2024 Co-Founder and Director: Colors of the Brain (CoB) Graduate Organization
2013 – 2014 Organic Chemistry Tutor: UC Berkeley Biology Scholars Program
2012 – 2013 Academics Coordinator: UC Berkeley Trenza
2011 – 2014 Outreach Coordinator: UC Berkeley DULCE

TEACHING EXPERIENCE

2019 – 2020 UC San Diego NEUG 221: Neuroscience Journal Club (Teaching Assistant)
2013 – 2014 UC Berkeley CHEM 3A: Chemical Structure and Reactivity (Tutor)

PROFESSIONAL SERVICE

2023 Admissions Application Reviewer: UCSD Medical Scientist Training Program
2020 Admissions Application Reviewer: UCSD Neurosciences Graduate Program
2020 Admissions Application Reviewer: UCSD Medical Scientist Training Program
2020 Speaker: UCSD UniversityLink Medical Science Program Symposium
2019 Student Representative: NIH UCSD MSTP Grant Renewal Site Visit
2019 Admissions Application Reviewer: UCSD Neurosciences Graduate Program
2019 Admissions Application Reviewer: UCSD Medical Scientist Training Program
2019 Student Representative: SFN ENDURE Graduate School Fair
2018 Student Representative: ABRCMS UCSD NGP
2018 Student Representative: SACNAS UCSD NGP
2018 Panelist: UCSD California Shaman High School Outreach
2018 Speaker: UCSD RAZA Center Brown Bag Graduate Series
2017 Panelist: UCSD Psychology Paths to Ph.D.s
2017 Panelist: EXPO Science Outreach at Petco Park
2017 Panelist: UCSD SACNAS Graduate School Info Panel
2016 Judge: San Diego Brain Bee