

May 2023

CURRICULUM VITAE

Gilad Barnea Ph.D.

Sidney A. Fox and Dorothea Doctors Fox Professor
of Ophthalmology, Visual Sciences, and Neuroscience
Department of Neuroscience
Division of Biology and Medicine
Brown University

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Website: <https://www.barnealab.com/>

Education:

Undergraduate degree:

B.Sc., *cum laude* Biology Hebrew University of Jerusalem, Israel, 1989

Higher degrees:

M.Sc., Department of Pharmacology, New York University, 1992

Ph.D., Department of Pharmacology, New York University, 1995

Dissertation topic: "*Molecular Characterization of a New Family of Receptor Tyrosine Phosphatases.*" Thesis advisor: Dr. Joseph Schlessinger

Professional Appointments:

1996 - 2001 Postdoctoral fellow with Dr. Richard Axel,
Howard Hughes Medical Institute, Columbia University, New York, NY

2001 - 2006 Associate Research Scientist In the laboratory of Dr. Richard Axel,
Center for Neurobiology and Behavior, Columbia University, New York, NY

2007 - 2014 Assistant Professor of Neuroscience,
Division of Biology and Medicine, Brown University, Providence, RI

2012 - 2015 Robert and Nancy Carney Assistant Professor of Neuroscience

2015 - 2021 Associate Professor of Neuroscience,

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| | Division of Biology and Medicine, Brown University, Providence, RI |
| 2017 - 2021 | Director, NIH-Brown Graduate Partnership Program, Brown University, Providence, RI |
| 2017 - 2021 | Co-Director, Neuroscience Graduate Program, Brown University, Providence, RI |
| 2018 - 2021 | Sidney A. Fox and Dorothea Doctors Fox Associate Professor of Ophthalmology, Visual Sciences, and Neuroscience |
| 2019 - Present | Director, Center for the Neurobiology of Cells and Circuits, Robert J. and Nancy D. Carney Institute for Brain Science, Brown University, Providence, RI |
| 2021- Present | Professor of Neuroscience, Division of Biology and Medicine, Brown University, Providence, RI |
| 2021 - Present | Sidney A. Fox and Dorothea Doctors Fox Professor of Ophthalmology, Visual Sciences, and Neuroscience |

Academic Honors and Awards:

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| 1989 | Graduation Cum Laude, Hebrew University of Jerusalem, Israel |
| 2008 | Pew Scholar in the Biomedical Sciences, The Pew charitable trusts |
| 2009 | Kavli Fellow, National Academy of Science |
| 2009 | EUREKA, NIH |
| 2012 | Robert and Nancy Carney Assistant Professor of Neuroscience |
| 2014 | EUREKA, NIH |
| 2014 | BIBS Innovation Award, Brown Institute for Brain Science |
| 2015 | BIBS Innovation Award, Brown Institute for Brain Science |
| 2016 | Visiting Scientist, École des Neurosciences de Paris Île-de-France (ENP) |
| 2017 | The Pew Innovation Fund Award, The Pew charitable trusts |
| 2018 | Sidney A. Fox and Dorothea Doctors Fox Professor of Ophthalmology, Visual Sciences, and Neuroscience |

Fellowships:

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| 2008 | Pew Scholar in the Biomedical Sciences |
| 2009 | 21 st Annual Kavli Frontiers of Science Symposium, National Academy of Sciences |

Refereed journal articles:

1. LaForgia, S., Morse, B., Levy, J., **Barnea, G.**, Cannizzaro, L. A., Li, F., Nowell, P. C., Boghosian-Sell, L., Glick, J., Weston, A., Harris, C., Drabkin, H., Patterson, D., Croce, C. M., Schlessinger, J., and Huebner, K. (1991) Receptor protein-tyrosine phosphatase γ is a candidate tumor suppressor gene at human chromosome region 3p21. *Proc. Natl. Acad. Sci. USA* 88: 5036-5040.
2. **Barnea, G.**, Silvennoinen, O., Shaanan, B., Honegger, A. M., Canoll, P. D., D'Eustachio, P., Morse, B., Levy, J. B., LaForgia, S., Huebner, K., Musacchio, J. M., Sap, J., and Schlessinger, J. (1993) Identification of a carbonic anhydrase-like domain in the extracellular region of RPTPy defines a new subfamily of receptor tyrosine phosphatases. *Mol. Cell. Biol.* 13: 1497-1506.
3. LaForgia, S., Lasota, J., Latif, F., Boghosian-Sell, L., Kastury, K., Ohta, M., Druck, T., Atchison, L., Cannizzaro, L. A., **Barnea G.**, Schlessinger, J., et al. (1993) Detailed genetic and physical map of the 3p chromosome region surrounding the familial renal cell carcinoma chromosome translocation, t(3;8)(p14.2;q24.1). *Cancer Res.* 53: 3118-3124.
4. Levy, J. B., Canoll, P. D., Silvennoinen, O., **Barnea, G.**, Morse, B., Honegger, A. M., Huang, J. T., Cannizzaro, L. A., Park, S. H., Druck, T., Huebner, K., Sap, J., Ehrlich M., Musacchio, J. M., and Schlessinger, J. (1993) The cloning of a receptor-type protein tyrosine phosphatase expressed in the central nervous system. *J. Biol. Chem.* 268: 10573-10581.
5. Canoll, P. D., **Barnea, G.**, Levy, J. B., Sap, J., Ehrlich, M., Silvennoinen, O., Schlessinger, J., and Musacchio, J. M. (1993) The expression of a novel receptor-type tyrosine phosphatase suggests a role in morphogenesis and plasticity of the nervous system. *Brain Res. Develop. Brain Res.* 75: 293-298.
6. **Barnea, G.**, Grumet, M., Sap, J., Margolis, R. U., and Schlessinger, J. (1994) Close similarity between receptor-linked tyrosine phosphatase and rat brain proteoglycan. *Cell* 76: 205.
<http://www.sciencedirect.com/science/article/pii/009286749490328X>
7. **Barnea, G.**, Grumet, M., Milev, P., Silvennoinen, O., Levy, J. B., Sap, J., and Schlessinger, J. (1994) Receptor tyrosine phosphatase β is expressed in the form of proteoglycan and binds to the extracellular matrix protein tenascin. *J. Biol. Chem.* 269: 14349-14352.
<http://www.jbc.org/content/269/20/14349.full.pdf>
8. Peles, E., Nativ, M., Campbell, P. L., Sakurai, T., Martinez, R., Lev, S., Clary, D. O., Schilling, J., **Barnea, G.**, Plowman, G. D., Grumet, M., and Schlessinger, J. (1995) The carbonic anhydrase domain of receptor tyrosine phosphatase β is a functional ligand for the axonal cell recognition molecule contactin. *Cell* 82: 251-26.
<http://www.sciencedirect.com/science/article/pii/0092867495903127>

9. Yu, C.R., Power, J., **Barnea, G.**, O'Donnell, S., Brown, H.E.V., Osborne, J., Axel, R., and Gogos, G.A. (2004) Spontaneous neural activity is required for the establishment and maintenance of the olfactory sensory map. *Neuron* 42: 553-566.
<http://www.sciencedirect.com/science/article/pii/S0896627304002247>
10. **Barnea, G.**, O'Donnell, S., Mancina, F., Sun, X., Nemes, A., Mendelsohn, M., and Axel, R. (2004) Odorant receptors on axon termini in the brain. *Science* 304: 1468.
<http://www.sciencemag.org/content/304/5676/1468.full.pdf>
11. Shykind, B. M., Rohani, S. C., O'Donnell, S., Nemes, A., Mendelsohn, M., Sun, Y., Axel, R., and **Barnea, G.** (2004) Gene switching and the stability of odorant receptor gene choice. *Cell* 117: 801–815.
<http://www.sciencedirect.com/science/article/pii/S009286740400529X>
12. Lomvardas, S., **Barnea, G.**, Pisapia, D., Mendelsohn, M., Kirkland, J., and Axel, R. (2006) Interchromosomal interactions and olfactory receptor choice. *Cell* 126: 403-413.
<http://www.sciencedirect.com/science/article/pii/S0092867406008555>
13. **Barnea, G.**, Strapps, W., Herrada, G., Berman, Y., Ong J., Kloss, B, Axel, R., and Lee, K. J. (2008) The genetic design of signaling cascades to record receptor activation. *Proc. Natl. Acad. Sci. USA*. 105: 64-69.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2224232/pdf/zpq64.pdf>
14. Magklara, A., Yen, A., Coquitt, B. M., Clowney, E. J., Allen, W., Markenscoff-Papadimitriou, E., Evans, Z., Kheradpour, P., Mountoufaris, G., Carey, C., **Barnea, G.**, Kellis, M. and Lomvardas, S. (2011) An epigenetic signature for monoallelic olfactory receptor expression. *Cell* 145: 555–570.
<http://www.sciencedirect.com/science/article/pii/S0092867411003746>
15. Inagaki, H. K., Ben-Tabou de-Leon, S., Wong, A. M., Jagadish, S., Ishimoto, H., **Barnea, G.**, Kitamoto, T., Axel, R. and Anderson, D. J. (2012) Visualizing neuromodulation in vivo: TANGO-Mapping of dopamine signaling reveals appetite control of sugar sensing. *Cell* 148: 583–595.
<http://www.sciencedirect.com/science/article/pii/S0092867412000098>
16. Johnson, M. A, Tsai, L., Roy, D, Valenzuela, D. H., Mosley, C., Magklara, A., Lomvardas, L., Liberles, S. D. and **Barnea, G.** (2012) Neurons expressing trace amine-associated receptors project to discrete glomeruli and constitute an olfactory subsystem. *Proc. Natl. Acad. Sci. USA*. 109, 13410-13415; published online ahead of print on July 26, 2012, doi:10.1073/pnas.1206724109.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3421222/pdf/pnas.201206724.pdf>
17. Cao, L., Benz, E. G., Schrank, B. R., Rickenbacher, G. T., Gomez, A. C., Rodriguez, S., Levites, Y., Edwards, S. R., Golde, T., Hyman, B. T., **Barnea G.** and Albers, M. W. (2012) A β alters the connectivity of olfactory neurons in the absence of amyloid plaques *in vivo*. *Nat. Commun.* 3:1009 doi: 10.1038/ncomms2013.
<http://www.nature.com/ncomms/journal/v3/n8/pdf/ncomms2013.pdf>
18. Clowney, E. J., Le Gross, M. A., Mosley, C. P., Clowney, F. G., Markenskoff-Papadimitriou, E. C., Myllys, M., **Barnea, G.**, Larabell, C. A. and Lomvardas, S. (2012) Nuclear aggregation of olfactory receptor genes governs their monogenic expression. *Cell*. 151, 724-737.
<http://www.sciencedirect.com/science/article/pii/S009286741201286X>

19. Lyons, D.B., Magklara, A., Allen, W., Goh, T., Evans, Z., Tsai, L., **Barnea, G.** and Lomvardas, S. (2013) An Epigenetic Trap Stabilizes Singular Olfactory Receptor Expression. *Cell* 154,325-336. <http://www.sciencedirect.com/science/article/pii/S0092867413007782>

20. Colquitt, B., Allen, W.E., **Barnea, G.** and Lomvardas, S. (2013) Alteration of genic 5-hydroxymethylcytosine patterning in olfactory neurons correlates with changes in gene expression and cell identity. *Proc. Natl. Acad. Sci. USA*. 110, 14682-14687; published online ahead of print on August 22, 2013, doi:10.1073/pnas.1302759110. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3767503/pdf/pnas.201302759.pdf>

21. Tsai, L. and **Barnea, G.** (2014) A critical period defined by axon-targeting mechanisms in the murine olfactory bulb. *Science*. 344, 197-200. <http://www.sciencemag.org/content/344/6180/197.full.pdf>

Accompanied by a Perspective in *Science*:
<http://www.sciencemag.org/content/344/6180/157.full.pdf>

Featured in *Nature Reviews Neuroscience*:
<http://www.nature.com/nrn/journal/v15/n6/pdf/nrn3754.pdf>

Featured in *Science News*:
<https://www.sciencenews.org/article/smell-wiring-gets-set-early>

22. Jagadish, S., **Barnea, G.**, Clandinin, T.R. and Axel, R. (2014) Identifying functional connections of the inner photoreceptors in *Drosophila* using Tango-Trace. *Neuron*. 83, 630-644. <http://dx.doi.org/10.1016/j.neuron.2014.06.025>

23. Talay, M., Richman, E. B., Snell, N. J., Hartmann, G. G., Fisher, J. D., Sorkaç, A., Santoyo, J. F., Chou-Freed, C., Nair, N., Johnson, M., Szymanski, J.R. and **Barnea, G.** (2017) Transsynaptic Mapping of Second-order Taste Neurons in Flies by *trans*-Tango. *Neuron*. 96, 783–795. [http://www.cell.com/neuron/pdf/S0896-6273\(17\)30979-0.pdf](http://www.cell.com/neuron/pdf/S0896-6273(17)30979-0.pdf)

Featured in *Nature Methods*:
<https://www.nature.com/articles/nmeth.4569.pdf>

24. Scaplen, K.M., Talay, M., Nunez, K.M., Salamon, S., Waterman, A.G., Gang, S., Song, S.L., **Barnea G.** and Kaun, K.R. (2020) Circuits that encode and guide alcohol-associated preference. *eLife*. 2020 Jun 4;9. doi:10.7554/eLife.48730. PubMed PMID: 32497004; PubMed Central PMCID: PMC7272191.

<https://elifesciences.org/articles/48730>

25. Scaplen, K. M., Talay, M., Fisher, J. D., Cohn, R., Sorkaç, A., Aso, Y., **Barnea, G.*** and Kaun, K. R. (2021) Transsynaptic mapping of *Drosophila* mushroom body output neurons. *eLife*. 2021;10:e63379 DOI: [10.7554/eLife.63379](https://doi.org/10.7554/eLife.63379)

<https://elifesciences.org/articles/63379>

* Co-corresponding author

26. Fei, A., Wu, W., Tan, L., Tang, C., Xu, Z., Huo, X., Bao, H., Johnson, M., Hartmann, G., Talay, M., Yang, C., Riegler, C., Joseph, K., Engert, F., Xie, S., **Barnea, G.**, Liberles, S., Yang, H. and Li, Q. (2020) Coordination of two enhancers drives expression of olfactory trace amine-associated receptors. *Nat. Commun.* 12, 3798 (2021). <https://doi.org/10.1038/s41467-021-23823-4>

<https://www.nature.com/articles/s41467-021-23823-4>

27. Sorkaç A., Savva Y. A., Savaş, D., Talay, M. and **Barnea, G.** (2022) Circuit analysis reveals a neural pathway for light avoidance in *Drosophila* larvae. *Nat Commun.* 13, 5274. DOI: 10.1038/s41467-022-33059-5. PMID: PMC9452580.

<https://www.nature.com/articles/s41467-022-33059-5>

28. Snell, N. J., Fisher, J. D., Hartmann, G. G., Zolyomi, B., Talay, M. and **Barnea, G.** (2022) Complex representation of taste quality by second-order gustatory neurons in *Drosophila*. *Curr Biol.* 32, 3758–3772 DOI: <https://doi.org/10.1016/j.cub.2022.07.048> PMID: PMC9474709.

[https://www.cell.com/current-biology/fulltext/S0960-9822\(22\)01197-6](https://www.cell.com/current-biology/fulltext/S0960-9822(22)01197-6)

29. Sorkaç, A., A Moşneanu, R. A., Crown, A. M., Savaş, D., Okoro, A. M., Memiş, E., Talay, M. and **Barnea, G.** (2023) *retro-Tango* enables versatile retrograde circuit tracing in *Drosophila* *eLife* 12:e85041. <https://doi.org/10.7554/eLife.85041>

30. Bashkirova, E.V., Klimpert, N., Pourmorady, A., Monahan, K., Campbell, C.E., Osinski, J.M., Tan, L., Schieren, I., Stecky, B., **Barnea, G.**, Xie, X.S., Abdus-Saboor, I., Shykind, B., Jones-Marlin, B., Gronostajski, R.M., Fleischmann, A. and Lomvardas, S. (2023) Opposing, spatially-determined epigenetic forces impose restrictions on stochastic olfactory receptor choice *eLife* 12:RP87445 <https://doi.org/10.7554/eLife.87445.1>

Manuscripts at various stages of peer review that were published as preprints on *BioRxiv*:

31. Coomer, C., Naumova, D., Talay, M., Zoliyomi, B., Snell, N. J., Sorkaç, A., Chanchu, J-M., Cheng, J., Roman, I., Li, J., Robson, D., **Barnea, G.** and Halpern, M.E. (2023) Transsynaptic labeling and transcriptional control of zebrafish neural circuits. *bioRxiv* 2023.04.03.535421; doi: <https://doi.org/10.1101/2023.04.03.535421>

Under review by *Nature Neuroscience*

Selected Patents

1. US Patent No. 6,160,090 Receptor protein tyrosine phosphatases. New York University. Inventors listed on the patent are: Joseph Schlessinger, **Gilad Barnea**, Martin H. Grumet and Richard U Margolis.

2. US Patent No. 6,803,452 B2 RPTPb antibodies. New York University. Inventors listed on the patent are: Joseph Schlessinger and **Gilad Barnea**.

3. US Patent No. 7,049,076 Method for assaying protein-protein interaction. Sentigen Biosciences and Columbia University. Inventors listed on the patent are: Kevin Lee, Richard Axel, Walter Strapps and **Gilad Barnea**.

4. US Patent No. 10,619,155 Methods for labeling and manipulating a cellular circuit. Brown University. Inventors listed on the patent are: **Gilad Barnea**, Mustafa Talay, Ethan Richman, John Szymanski, Mark Johnson, John Fisher and Nathaniel Snell.

Invited lectures:

- 2006: FEBS Special Meeting Cellular Signaling, Dubrovnik, Croatia, Invited speaker
- 2007: Department of Molecular Biology, Cell Biology, and Biochemistry, Brown University, Providence, Rhode Island
Department of Anatomy, Boston University, Boston, Massachusetts
- 2008: Department of Molecular Genetics, Weizmann Institute of Science, Rehovot, Israel
Department of Biology, Brandeis University, Waltham, Massachusetts
- 2009: The 2009 Annual Meeting of the Pew Scholars, Rio Mar, Puerto Rico
- 2011: Suna Kiraç Workshop on Neurodegenerative Disease: From genetic models to therapies, Boghaziçi University, Istanbul, Turkey (two lectures)
- 2012: The 2012 Annual Meeting of the Pew Scholars, Gamboa, Panama
Brains and Roses: 1st International Symposium on Olfaction, Collège de France, Paris, France
- 2013: Suna Kiraç Workshop on Neurodegenerative Disease: From genetic models to therapies, Boghaziçi University, Istanbul, Turkey (two lectures)
University of Nebraska Medical Center, Omaha, Nebraska
The Schwalb Center for Israel and Jewish studies, University of Nebraska, Omaha, Nebraska, "Academics Without Borders: Israeli Scientists in the United States"

Reports about this lecture appeared in the general press:

The Jewish Press, Omaha:

<http://www.jewishomaha.org/jewish-press/2013/schwalb-center-hosts-talk-by-israeli-scientist-gilad-barnea/>

The Guardian, UK:

<http://www.theguardian.com/science/occams-corner/2013/apr/26/scientific-brain-drain>

The Edmond and Lily Safra Center for Brain Sciences, ELSC-ICNC Seminar series, The Hebrew University of Jerusalem, Jerusalem, Israel

Leiden University Medical Center, Leiden, The Netherlands

Institut Jacques Monod, Paris, France

Institut Pasteur, Paris, France

Brains and Roses: 2nd International Symposium on Olfaction, Collège de France, Paris, France

Neurological and Psychiatric Diseases: Model Systems and Treatments Symposium, Brown Institute for Brain Science and Kiraç Foundation, Brown University, Providence, Rhode Island

- 2014: Department of Physiology Seminar, Columbia University, New York, New York
Pathobiology Graduate Seminar, Brown University, Providence, Rhode Island
Neuroscience Graduate Seminar, Brown University, Providence, Rhode Island

Brains and Roses: 3rd International Symposium on Olfaction, College de France, Paris, France, Invited speaker

Department of Molecular Genetics, Weizmann Institute of Science, Rehovot, Israel

National Institutes of Health (NIH)/Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), Bethesda, Maryland

Neuroscience Seminar Series, Massachusetts General Hospital (MGH), Boston, Massachusetts

Neuroscience Seminar, Yale University, New Haven, Connecticut

Neuroscience Seminar, University of Pennsylvania, Philadelphia, Pennsylvania

2015: Suna Kiraç Workshop on Neurodegenerative Disease: From genetic models to therapies, Boghaziçi University, Istanbul, Turkey (two lectures)

University of Texas Southwestern, Medical Center, Neurosciences Symposium, Dallas, Texas

Champalimaud Neuroscience Program Seminar Series, Champalimaud Centre for the Unknown, Lisbon, Portugal

Association for Chemoreception Sciences (AChemS) 2015, Symposium on signal transformation and routing in the olfactory system, Invited speaker

Kavli Institute for Theoretical Physics, Symposium on Olfaction, Invited speaker

Brains and Roses: International Symposium on Olfaction, MRC, London, United Kingdom, Invited speaker – The Scientifica Lecture

Pew Scholars' 30th Reunion, Grand Cayman, Invited speaker

2016: ENP Seminar, Collège de France, Paris, France

Biochemistry Seminar series, Columbia University, New York, New York

The Gladstone Institute, University of California San Francisco, San Francisco, California

ENP Seminar, Institut de la Vision, Paris, France

ECRO XXVI, Athens, Greece, Invited Speaker

Brains and Roses: 4th International Symposium on Olfaction, Alicia Foundation, Mont San Benet, San Fruits de Bages, Spain, Invited speaker

The Hospital for Sick Children, Co-hosted by the programs in Cell Biology and Neuroscience, Toronto, Canada

Penn State University, Neuroscience seminar, State College, Pennsylvania

Weizmann Institute of Science, Molecular Neuroscience Forum, Rehovot, Israel

Hebrew University of Jerusalem, Hadassah Ein-Kerem Medical School, Jerusalem, Israel

2017: Cornell University, Ithaca, New York

Brains and Roses: 5th International Symposium on Olfaction, Hebrew University, Jerusalem, Israel, Invited speaker

2018: Boston University, Biology department, Boston, Massachusetts

Texas A&M Health Science Center, Department of Molecular and Cellular Medicine, College Station, TX

Brains and Roses: 6th International Symposium on Olfaction, College de France, Paris, France, Invited speaker

BRAIN Initiative Technology Integration webinar, online seminar

2019: Stanford University, Stanford Neurosciences Institute, Palo Alto, California

Achems XLI satellite meeting, Bonita Springs, Florida, Invited speaker

Suna Kiraç Workshop on Neurodegenerative Disease: From genetic models to therapies, Koç University, Istanbul, Turkey (two lectures)

Brains and Roses: 7th International Symposium on Olfaction, Collège de France, Paris, France, Invited speaker

2020: Department of Molecular Genetics, Weizmann Institute of Science, Rehovot, Israel

Departmental seminar, The Edmond and Lily Safra Center for Brain Sciences, The Hebrew University of Jerusalem, Jerusalem, Israel

2021: Department of Physiology and Neurobiology, University of Connecticut, Storrs, CT

2022: Department of Pharmacology, Yale University, New Haven, CT

2023: Distinguished Lecture Series, Sagol School of Neuroscience, Tel Aviv University, Tel Aviv, Israel

Research Support:

Current Grants:

1R01DC017145

NIH, National Institute on Deafness and Other Communication Disorders

“Molecular and cellular analysis of accessory olfactory circuits in mice”

6/1/2018-5/31/2023

Role: Principal investigator

1R01DC017146

NIH, National Institute on Deafness and Other Communication Disorders

“The neural circuits underlying gustatory perception in flies”

7/1/2018-6/30/2023

Role: Principal investigator

1RF1MH123213

NIH BRAIN Initiative

“Molecular Multi-Species Approach for Trans-Synaptic Labeling of Neural Circuits”

08/01/2020- 07/31/2023

Role: Co-PI (Multi PI grant, contact PI: Marnie Halpern, Dartmouth Medical School)

Pending Grants:

NIH, R01NS133238-01

“Sensorimotor transformations for controlling heading direction in the insect central complex”

07/01/2023- 06/30/2028

Role: Principal investigator

1R01DC020703-01A1

NIH, National Institute on Deafness and Other Communication Disorders

“A Neuropeptidergic Neural Network Integrates Taste with Internal State to Modulate Feeding”

7/1/2023-6/30/2028

Role: Principal investigator

1R01OD035069-01

NIH Transformative R01

“A method for monitoring the activation of specific G Protein-Coupled Receptors *in vivo*”

08/01/2023- 07/31/2028

Role: Principal investigator

1RM1NS132988-01

NIH, National Institute of Neurological Disorders and Stroke RM1

“Integrated Circuit Analysis through Transsynaptic Signaling”

08/01/2023- 07/31/2028

Role: Co-PI (Multi PI grant, contact PI: Marnie Halpern, Dartmouth Medical School)

Internal Funding:

Brown OVRP, Research Seed Funds

“Generating icTango, a technique for tracking developing cellular networks”

02/01/2023- 06/30/2024

Role: Principal investigator

Carney Institute for Brain Science, Zimmerman Innovation Awards Program

“Visualizing sites of neuromodulation in mice”

3/01/2023-6/30/2024

Role: Principal investigator

Completed Grants

Pew Scholar in the Biomedical Sciences

The Pew Charitable Trusts

“Mapping the neural projections from the olfactory bulb of the mouse by a new technique for trans-synaptic labeling”

7/1/2008-6/30/2012

Role: Principal investigator

NIH EUREKA 5R01MH086920

NIH, National Institute of Mental Health

“A Molecular Method to Selectively Record Activation of Dopamine Receptor Subtypes”

8/01/2009-7/31/2013

Role: Principal investigator

Supplement to the above EUREKA Grant

NIH, National Institute of Mental Health

“A Molecular Method to Selectively Record Activation of Dopamine Receptor Subtypes”

4/01/2010-3/31/2013

Role: Principal investigator

1R21DC014333

NIH, National Institute on Deafness and Other Communication Disorders

“Trans-synaptic tracing and manipulation of olfactory circuits in flies”

10/01/2014-9/30/2016

Role: Principal investigator

1R01DA036894

NIH, Director Road Map, National Institute of Drug Abuse

“Controlling epigenetic states and nuclear architecture in the brain”

9/15/13-5/31/18

Role: Co-PI (Multi PI grant with Stavros Lomvardas, Columbia University)

NIH EUREKA 1R01MH105368

NIH, National Institute of Mental Health

“Functional mapping of mammalian neural circuits”

9/15/2014-6/30/2018

Role: Principal investigator

1R01DC013561

NIH, National Institute on Deafness and Other Communication Disorders

“An olfactory subsystem that mediates innate behaviors”

6/09/2014-5/31/2020

Role: Principal investigator

Pew Biomedical Programs Innovation Fund

The Pew Charitable Trusts

“Using trans-Tango, a new circuit tracing tool in neuroscience, to track metastatic cancer”

9/1/2017-8/31/2020

Role: Principal investigator (Co-PI: Ben Stanger, U. Penn)

Completed Internal Funding:

CVR Pilot grant

Center for Vision Research, Brown University

“Identifying ligands for the receptor GPR161 that is implicated in congenital cataracts”

10/1/2009-5/28/2010

Role: Principal investigator

COBRE Pilot Funds

COBRE Center for Cancer Signaling Networks, Brown University

“Functional characterization of the olfactory subsystem of TAAR expressing neurons”

4/01/2012-3/31/2013

Role: Principal investigator

Brown Institute for Brain Science, Pilot Award

“The role of gap junctions between mitral cells in olfactory coding”

11/15/2012-11/14/2013

Role: Principal investigator

COBRE Pilot Funds

COBRE Center for Cancer Signaling Networks, Brown University

“The role of the odorant receptors in the formation and maintenance of the glomeruli in the olfactory bulb”

6/01/2013-3/31/2014

Role: Principal investigator

Brown OVPR, Richard B. Salomon Faculty Research Award

“Developing a technique for mapping and manipulating neural circuits in flies”

2/15/2013-6/30/2014

Role: Principal investigator

Brown OVPR, Research Seed Funds

“The role of electrical coupling between mitral cells in olfactory coding”

4/01/2013-6/30/2014

Role: Principal investigator

Brown OVPR, Research Seed Funds

“Establishing a technique for studying the neural circuits underlying alcohol responses in flies”

5/01/2014-6/30/2015

Role: Co-PI (Karla Kaun PI)

Brown Institute for Brain Science, Innovation Fund

“Establishing a new technique for circuit tracing and manipulation”

7/01/2014-6/30/2015

Role: Principal investigator

Brown Institute for Brain Science, Innovation Fund (Renewal)

“Establishing a new technique for circuit tracing and manipulation”

7/01/2015-6/30/2016

Role: Principal investigator

Service:**To the University:**

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| 2008 | Selection Committee, Postdoctoral Training Grant, Department of Neuroscience, member |
| 2008 | Organizing Committee, Annual Neuroscience Retreat, member |
| 2008 - 2009 | Admissions Committee, Neuroscience Graduate Program, member |
| 2008 - 2009 | Faculty Search Committee, Department of Neuroscience, member |
| 2008 - 2009 | Steering Committee, "Genetics and Genomics" T32 Training Grant, Department of Molecular Biology, Cell Biology and Biochemistry |
| 2008 - 2012 | "In House" seminar series, Department of Neuroscience, organizer |
| 2008 - Present | Speakers' Selection Committee, NSGP seminar series, member |
| 2009 - 2010 | Planning Committee, Brown Institute for Brain Science's 10 th Anniversary Symposium, member |
| 2009 - 2010 | Faculty Search Committee, Department of Neuroscience, member |
| 2009 - Present | Committee to select Brown's nominee for a Pew Award, member |
| 2009 - 2013 | Institutional Animal Care and Use Committee (IACUC), member |
| 2010 - 2013 | Subcommittee on voting and policy of IACUC, member |
| 2012 - 2013 | IACUC COEUS Subcommittee, member |
| 2012 - 2015 | Steering Committee, Neuroscience Graduate Program, member |
| 2013 - 2014 | Advisory Committee for Honorary Degrees, member |
| 2014 - 2015 | Advisory Committee for Honorary Degrees, Co-Chair |
| 2015 - 2016 | Advisory Committee for Honorary Degrees, Chair |
| 2014 - 2015 | Faculty Search Committee, Department of Neuroscience, member |
| 2015 - 2016 | Brown Institute for Brain Science, Director Search Committee, member |
| 2017 - 2021 | Brown University, Neuroscience Graduate Program, Co-Director |
| 2017 - 2021 | Brown University-NIH, Graduate Program Partnership, Director |
| 2017 | Departmental Tenure Committee (Fleischmann), member |
| 2018 | Departmental Tenure Committee (O'Connor-Giles), Chair |

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| 2018 - 2019 | Faculty Search Committee, Alzheimer's Disease Research, Division of Biology and Medicine, member |
| 2019 - Present | Director, Center for the Neurobiology of Cells and Circuits, Robert J. and Nancy D. Carney Institute for Brain Science |
| 2019 | Departmental Tenure Committee (Valdez, MCB), member |
| 2019 | Departmental Tenure Committee (Kaun), Chair |
| 2020 | Departmental Tenure Committee (Jaworski), Chair |
| 2020 | <i>Ad hoc</i> committee on Departmental Governance |
| 2020 - Present | Center for Translational Neuroscience, Executive committee, member |
| 2021 - Present | Departmental Mentoring and Awards Committee, Chair |
| 2021 - Present | Steering Committee of the Advancing Research Careers (ARC) program of The Carney Institute, member |
| 2023 | Carney Institute Promotion Committee (Andrade), member |

To the Profession:

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| 1997 - Present | Selection Committee, The Bessie Lawrence Summer program for Pre-College Students, Friends of the Weizmann Institute in the United States, member |
| 2010 | NIH Peer Review Committee: 2011/01 ZRG1 ETTN-J (40) P, <i>ad hoc</i> reviewer |
| 2011 - Present | Suna Kiraç Workshop on Neurodegenerative Disease: From genetic models to therapies, Boghaziçi University, Istanbul, Turkey, participating faculty |
| 2014 | NIH Peer Review Committee: ZRG1 F02AJ (20) Behavioral Neuroscience panel, reviewer |
| 2014 - 2020 | Scientific Advisory Committee (SAC) of the Ernest and Bonnie Beutler Research Program of Excellence in Genomic Medicine, member |
| 2015 | NIH Peer Review Committee: ZMH1 ERB-L (06) BRAIN initiative: Development and Validation of Novel Tools to Analyze Cell-Specific and Circuit-Specific Processes in the Brain, NIMH Special Emphasis panel, reviewer |
| 2015 | University of Texas, UT BRAIN Initiative, reviewer |
| 2015 - Present | The Israel Science Foundation, Individual Research Grants Program, reviewer |
| 2016 | U.S.-Israel Binational Science Foundation, Annual BSF competition for research grants, reviewer |

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| 2017 | NIH R15 Peer Review Committee: ZRG1 MDCN-R (86) Academic Research Enhancement Award (AREA), <i>ad hoc</i> reviewer |
| 2016 - 2019 | Society for Neuroscience, Program Committee, member |
| 2016 - 2019 | Society for Neuroscience, Program Committee, Innovative Learning Working Group, member |
| 2017 - 2018 | Society for Neuroscience, Program Committee, Subcommittee for Sensory Systems Theme, Vice Chair |
| 2018 | NIH Special Emphasis Panel/Scientific Review Group 2018/05 ZRG1 BCMB-A (51) R, <i>ad hoc</i> reviewer |
| 2018 - 2019 | Society for Neuroscience, Program Committee, Subcommittee for Sensory Systems Theme, Chair |
| 2020 | NIMH Board of Scientific Counselors (BSC), <i>ad hoc</i> review member |
| 2020-2021 | The French public scientific organizations (CNRS and INSERM), French ATP-Avenir 2021 (LS5) competition, <i>ad hoc</i> reviewer |
| 2021 | NIH Molecular Neurogenetics (MNG), <i>ad hoc</i> reviewer |
| 2022 – Present | The Pew charitable trusts, Pew Innovation Fund Committee, member |

Professional Societies:

Society for Neuroscience

Association for Chemoreception Sciences (AChemS)

Teaching:

Course Director:

NEUR2040: Advanced Cellular and Molecular Neurobiology II

This is a core course in the Neuroscience Graduate Program.

2008 (13 students)
2009 (12 students)
2010 (15 students)
2011 (10 students)
2012 (13 students)
2014 (13 students)
2015 (9 students)
2017 (12 students)
2018 (17 students)
2019 (13 students)
2020 (18 students)
2021 (14 students)
2023 (19 students)

NEUR1940E: Topics in Molecular Neurobiology: Genes, Circuits and Behavior

2009 (17 students)
2008 (25 students)

Guest lectures:

NEUR1020: Principles of Neurobiology

2009, 2010, 2011, 2012, 2015, 2017, 2018, 2019

BIOL201A: Faculty on Parade

2007, 2008, 2009, 2010, 2011, 2016, 2017, 2018, 2020

NEUR 1040: Introduction to Neurogenetics

2015, 2017, 2018, 2019, 2020, 2021

Ethics & Skills Workshop

2007, 2009, 2010, 2015, 2017, 2018, 2019, 2020

BIOL1100: Cell Physiology and Biophysics

2011, 2012

NEUR2040: Advanced Cellular and Molecular Neurobiology II

2007

BN104: Developmental Neuroscience

2008

BN166: Neural basis of Cognition

2008

Bench to Bedside

2009

BIOL1540: Molecular Genetics

2015

Independent studies:

NEUR1970: Independent studies Neuroscience

2008 (2 students)
2009 (2 students)
2010 (6 students)
2011 (4 students)
2012 (3 students)
2013 (3 students)
2014 (2 students)
2015 (1 student)
2016 (1 student)
2017 (1 student)
2018 (3 students)
2019 (7 student)
2020 (3 students)
2021 (3 students)
2022 (4 students)

BIOL1950/1960: Independent studies Biology

2007 (1 student)
2008 (2 students)
2010 (1 student)
2012 (3 students)
2014 (1 student)
2015 (1 student)
2016 (2 students)
2017 (3 student)
2018 (2 students)
2019 (1 student)
2021 (1 student)
2022 (1 student)

Faculty Advising:

Undergraduate Students:

Undergraduate research projects supervised:

30 students since 2007

Honors Thesis supervised:

1 student in 2008

1 student in 2009

1 student in 2010

2 students in 2011

5 students in 2012

2 students in 2013

1 student in 2015

1 student in 2017

1 student in 2018

2 students in 2019

3 students in 2020

1 student in 2021

2 students in 2022

Currently in the laboratory:

Xavier Dawkins, Neuroscience '23

Ilyaas Sugal, Neuroscience '23

Rebecca Siegel, Neuroscience '23.5

Jared Chung, Neuroscience '24

Joseph Lipschitz, Neuroscience '24

Chloe Zhao, Neuroscience & Philosophy '24

Ece Erdogan, Neuroscience '25

Lindsey Hofflander, Neuroscience '25

Tongda Shen, Neuroscience and Computer Science '25

Graduated:

Alexander Raufi, PLME, Biology '08 with honors, MD '13

Current position: Assistant Professor of Medicine, The Warren Alpert Medical School of Brown University, Lifespan Cancer Institute/Rhode Island Hospital/The Miriam Hospital.

- John Szymanski, Neuroscience '09 with honors
Stayed in the lab as a technician for a year.
Graduated with Ph.D. from Columbia University in 2018.
- Grisselle Escotto, Neuroscience '09
Stayed in the lab as a technician for a year.
Current position: Director of Operations, Gleamin, Los Angeles, CA.
- Alexander Logan, Biology '10 with honors
Stayed in the lab as a technician for a year.
Graduated with MD from the University of Pennsylvania.
Current position: HS Clinical Instructor, School of Medicine, UCSF, San Francisco, CA.
- Michael Chang, Neuroscience '11 with honors
Graduated with MD from Yale.
Current position: Clinical Instructor, Otolaryngology-Head & Neck Surgery, Stanford Hospital, Palo Alto, CA.
- Charles Bengson, Neuroscience '11 with honors
Graduated with MD from the University of Maryland.
Current position: Assistant Professor, Anesthesiology, University of Colorado School of Medicine, Aurora, CO.
- William Allen, Applied Mathematics and Biology '12 with honors
Graduated with Ph.D. from Stanford University in 2019.
Current position: Fellow, The Society of Fellows, Harvard University, Cambridge, MA.
- Elias Scheer, Applied Mathematics and Biology '12 with honors
Graduated with Ph.D. from Rockefeller University in 2021.
Current position: Postdoctoral Associate at Rockefeller University.
- Eliza Adams, Neuroscience '12 with honors
Graduated with Ph.D. from Stanford, Palo Alto, CA.
Current position: Yoda Ed., Advisory Board
- Ivan Kaspruk, Neuroscience '12 with honors
Graduated with MD from the University of Wisconsin - Madison.
Current position: Emergency Medicine Resident, University of Toledo, Toledo, OH.
- Douglas Dmytrenko, Neuroscience '12 with honors
Current position: Winemaker's Assistant at Littorai Wines, Sebastopol, CA.
- Danielle Lo, Neuroscience '13 with honors
Graduated with MD from NYU.
Current position: Comprehensive ophthalmologist and a premier cataract and refractive surgeon, Hacienda Heights, CA.
- Ethan Richman, Applied Mathematics and Biology '13 with honors
Stayed in the lab as a technician for two years.
Current position: Graduate student at Stanford, Palo Alto, CA.
- Griffin Hartmann, Neuroscience '15 with honors
Stayed in the lab as a technician for 2.5 years.
Current position: Graduate student at Stanford, Palo Alto, CA.
- Cambria Chou-Freed, Biology '17 with honors
Stayed in the lab for 5 months before going to Argentina on a Fulbright scholarship.
Current position: Graduate student at UCSF, San Francisco, CA.

- Sasha Martinez-Machado, Neuroscience '18 with honors
Current position: Technician in a research lab at Massachusetts General Hospital, Boston, MA. Intends to enroll in medical school in 2020.
- Victoria Tran, Biology '19 with honors
Current position: Graduate student at UCSF, San Francisco, CA.
- Bence Zolyomi, Neuroscience '19 with honors
Current position: Medical student at Duke University, class of 2023, Durham, NC.
- Jonathan Huang, Neuroscience '20 with honors
Current position: Medical student at Northwestern University, class of 2024, Chicago, IL.
- Neel Vishwanath, PLME, Neuroscience '20 with honors
Current position: Medical student at Brown University, class of 2024, Providence, RI.
- Chloe Zana, Neuroscience '20 with honors
Current position: Dental student at Harvard School of Dental Medicine, class of 2024, Boston, MA.
- Silas Monje, PLME, Neuroscience '21 with honors
Current position: Medical student at Brown University, class of 2025, Providence, RI.
- Annie Wu, Neuroscience, '22 with honors
Current position: Research Assistant Barnea laboratory at Brown University
- Adriana Baez Berrios, Biology, '22 with honors
Current position: Medical student at Icahn School of Medicine at Mount Sinai, class of 2024, New York, NY

Honors and Awards won by Supervised Undergraduate Students:

Undergraduate Teaching and Research Award (UTRA) projects supervised:

- 1 student in 2008
- 2 students in 2009
- 1 student in 2010 (a second student declined since he was awarded a Royce fellowship for that summer)
- 1 student in 2011
- 3 students in 2012
- 1 student in 2013
- 2 students in 2014
- 1 student in 2016
- 1 student in 2017
- 2 students in 2018
- 1 student in 2019 (a second student declined since he was awarded an Alpert Medical School Summer Assistantship for that summer)
- 1 student in 2021

2 students in 2023

INBRE projects supervised:

1 student in 2008 (Lauren Dobson)

Alpert Medical School Summer Assistantship:

1 student in 2009 (Alexander Raufi)

1 student in 2012 (Connie Wu)

1 student in 2019 (Silas Monje)

Royce Fellowship:

2 students in 2010 (Will Allen and Michael Chang)

Goldwater Fellowship:

1 student in 2011 (Will Allen)

Whalen Award:

1 student in 2011 (Michael Chang)

Brown's candidate for a Rhodes Scholarship:

1 student in 2011 (Will Allen)

Brown's candidate for a Marshall Scholarship:

1 student in 2011 (Will Allen)

ENDURE projects supervised:

1 student in 2011

Morris L. Povar Prize:

1 student in 2012 (Will Allen)

Churchill Scholarship:

1 student in 2012 (Will Allen)

Neuroscience Excellence Award:

1 student in 2015 (Griffin Hartmann)

Fulbright Scholarship:

1 student in 2017 (Cambria Chou-Freed)

Maria L. Caleel Memorial Award for Academic Excellenc

1 student in 2017 (Cambria Chou-Freed)

Mcllwain Award in Neuroscienc

1 student in 2018 (Sasha Martinez-Machado)

Mcllwain Award in Neuroscience

1 student in 2019 (Bence Zolyomi)

Senior Prize in Biology

1 student in 2019 (Victoria Tran)

Mcllwain Award in Neuroscience

1 student in 2021 (Silas Monje)

McIlwain Award in Neuroscience

1 student in 2022 (Annie Wu)

Undergraduate honors theses (second reader):

2 in 2008

2 in 2009

2 in 2010

2 in 2011

4 in 2012

2 in 2014

2 in 2015

2 in 2017

2 in 2018

2 in 2019

Post-baccalaureate research projects supervised:

Juan Santoyo: 2015 - 2018
Current position: Graduate student at MIT

Tariq Cannonier: 2018 - 2021
Current position: Graduate student at the University of Pennsylvania

Lizmaylin Ramos: 2021 – 2022
Current position: Graduate student at Brown-NIH Graduate Partnership Program

Graduate Students:

Graduate students working on their theses in my laboratory:

15 students since 2008

Currently in the laboratory:

Anthony Crown (MCB)

Pablo Iturralde (Neuroscience)

Ezgi Memiş (neuroscience)

Rareş Moşneanu (Neuroscience)

Bahati Nkera (Neuroscience)

Angel Okoro (Neuroscience)

Doruk Savaş (Neuroscience)

Graduated:

David Valenzuela - Graduated with M.Sc., 2010

Current position: Department Chair, Sciences Faculty, Madison High School, Portland Public Schools, Portland, OR.

Lulu Tsai - Graduated with Ph.D., 2013

Continued for a postdoctoral fellowship with Michael Akins at Drexel University, Philadelphia, PA.

Current position: Plant science researcher at the Morris Arboretum of the University of Pennsylvania.

Mark Johnson - Graduated with Ph.D., 2014

Continued for a postdoctoral fellowship with Matt Anderson at Beth Israel Deaconess Medical Center, Harvard University.

Current position: Associate Director, New Products, Taconic Biosciences, San Diego, CA.

Scott Herrick - Graduated with Ph.D., 2015

Continued for a postdoctoral fellowship with Mark Albers at Massachusetts General Hospital, Boston, MA.

Current position: Senior Scientific Writer, Takeda Pharmaceuticals, Cambridge, MA.

Lauren Dobson - Graduated with Ph.D., 2016

Current position: Chemistry teacher, South Shore Charter Public School in Norwell, MA.

Mustafa Talay - Graduated with Ph.D., 2016

Stayed in the lab as a postdoctoral fellow for two years.

Current position: Postdoctoral fellow with Catherine Dulac at Harvard University.

Nathaniel Snell (Neuroscience) - Graduated with Ph.D., 2021

Continued for a postdoctoral fellowship with Mark Wu at Johns Hopkins University.

Current position: Scientist at a Nanite, Inc.

John Fisher (Neuroscience) - Graduated with Ph.D., 2022

Current position: Scientist at a Nanite, Inc.

F31 Ruth L. Kirschstein Predoctoral Awarded to students in the laboratory:

Anthony Crown, NIH/NIDCD, 2021-2023

Graduate student rotating in my laboratory:

2 NIH-GPP students in 2008-09
2 NIH-GPP students in 2009-10
2 NSGP students in 2010-11
2 MCB students in 2010-11
1 NIH-GPP student in 2011-12
2 NSGP students in 2011-12
2 NSGP students in 2014-15
1 MPP student in 2014-15
1 NIH-GPP student in 2016-17
1 NSGP student in 2017-18
1 MCB student in 2017-18
1 NSGP student in 2018-19
1 NSGP student in 2019-20
2 NIH-GPP students in 2019-20
1 NIH-GPP student in 2020-21
3 NSGP students in 2020-21
1 NIH-GPP student in 2021-22
1 NIH-GPP student in 2022-23

First year graduate students' faculty advisor:

7 since 2007

Graduate comprehensive exam committees:

11 since 2007

Doctoral thesis committees:

29 since 2007

Current Ph.D. candidates:

Ryan Puterbaugh (Abdelfattah)

Defended their Ph.D. theses and graduated:

Amanda Audesse, Graduate Program: Neuroscience (Advisor: Webb)
Daniel Berg, MCB (Berson)
Hanna Berk-Rauch, MCB (Fallon)
Amanda Duffy, Neuroscience (Fallon)
Courtney Frederick, MPPB (Berson)
Kara Fulton, NIH GPP (Briggman)
Aron Gyuris, MCB (McKeown)
Nellwyn Hagan, Neuroscience (Zervas)
Diego Jaime, MCB (Fallon)
Ashly Leder-Brown, Neuroscience (Zervas)
Megan Leyrer, Neuroscience (Berson)
Elizabeth Normand, Neuroscience (Zervas)
Patrick O'Hern, Neuroscience (Hart)
Rana Ozdeslik, MPPB (Oancea)
Matthew Pescosolido, Neuroscience (Morrow)
Cecilia Phillips, Neuroscience (Lipscombe)
Altar Sorkaç, Neuroscience (Hart)
Emily Stackpole, Neuroscience (Fallon)
Arthur Sugden, MCB (Connors)
Tracey Suter, MPPB (Jaworski)
Alastair Tulloch, Neuroscience (Jaworski)
Alyssa Wheeler, Neuroscience (Simmons)
Atilgan Yilmaz, MCB, (Fallon)

Did not defend their theses and graduated with another degree:

Omar Lansari, MCB (Nilini)
Nicholas Mei, Neuroscience (Kaun)
Arjun Ray, MCB (Kaun)
Steven Russo, Neuroscience (Connors)
Valerie Yorgan, Neuroscience (Lipscombe)

External reviewer on doctoral thesis defense committees in other institutions:

David Stochlic, Harvard University, Medical School (Advisor: Steve Liberles)
Jerome Keoki Kahiapo, Columbia University (Advisor: Stavros Lomvardas)

Postdoctoral Fellows:

Postdoctoral Fellows currently working in my laboratory:

Altar Sorkaç

Aastha Kumari

Former Postdoctoral Fellows:

Jeff Mayes

Current position: Director of Data Security & Governance, Alyce, Providence, RI

Yiannis Savva

Current position: Senior Scientist, Shape Therapeutics, Seattle, WA

Meet Zandawala – Assistant Professor, the University of Würzburg, Würzburg, Germany

Advisory Committee for a Postdoctoral Fellow (for NRSA):

Michael Akins (Fallon)

Faculty mentoring:

Mentor For COBRE Projects

Karla Kaun (Neuroscience) (COBRE PI: Sanes)

Ashley Webb (MCB) (COBRE PI: Quesenberry)

Departmental Faculty mentor

Ahmed Abdelfattah