

Tania A. Seabrook, Ph.D.

Contact Information

Stanford University School of Medicine
Department of Neurobiology
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Education

2007 - 2012 **Ph.D., Neuroscience**
Virginia Commonwealth University

2000 - 2005 **B.S., Biology with Minor in Chemistry**
B.S., Forensic Science
Virginia Commonwealth University

Professional Experience

2016 - present **Postdoctoral Scholar**
Department of Neurobiology, Stanford University School of Medicine
Andrew Huberman Laboratory

2013 - 2016 **Postdoctoral Fellow**
Department of Neurosciences, University of California, San Diego
Andrew Huberman Laboratory

2006 - 2007 **Laboratory Specialist**
Department of Anatomy & Neurobiology, Virginia Commonwealth University
William Guido Laboratory

2005 - 2006 **Research & Laboratory Specialist**
Department of Pharmacology & Toxicology, Virginia Commonwealth University
Kimber White Laboratory

Summer 2005 **Summer Research Assistant**
Department of Anatomy & Neurobiology, Virginia Commonwealth University
Ary Ramoa Laboratory

Research Publications

Seabrook TA, Dhande OS, Ishiko N, Wooley VP, Nguyen PL, Huberman AD (2017) Strict independence of parallel and poly-synaptic axon-target matching during visual reflex circuit assembly. **Cell Reports**, 21:3049-3064. [cover article]

Dilger EK, Krahe TE, Morhardt DR, **Seabrook TA**, Shin HS, Guido W (2015) Absence of plateau potentials in dLGN cells leads to a breakdown in retinogeniculate refinement. **Journal of Neuroscience**, 35:3652-3662.

Seabrook TA, Krahe TE, Govindaiah G, Guido W (2013) Interneurons in the mouse visual thalamus maintain a high degree of retinal convergence throughout postnatal development. **Neural Development**, 8:24.

Brooks JM, Su J, Levy C, Wang JS, **Seabrook TA**, Guido W, Fox MA (2013) A molecular mechanism regulating the timing of corticogeniculate innervation. **Cell Reports**, 5:573-581.

Seabrook TA, El-Danaf RN, Krahe TE, Fox MA, Guido W (2013) Retinal input regulates the timing of corticogeniculate innervation. **Journal of Neuroscience**, 33:10085-10097.

Krahe TE*, **Seabrook TA***, Chen C-KJ, Fox MA, Guido W (2012) Modulation of CREB in the dorsal lateral geniculate nucleus of dark-reared mice. **Neural Plasticity**, 2012:426437.

Invited Review Articles

Seabrook TA*, Burbridge TJ*, Crair MC, Huberman AD (2017) Architecture, Function, and Assembly of the Mouse Visual System. **Annual Review of Neuroscience**, 40:499-538.

Seabrook TA, Huberman AD (2015) Cortical Cliques: A Few Plastic Neurons Get All the Action. **Neuron**, 86:1113-1116.

Grant support

NIH/NEI F32 “Axon-target matching specificity in the developing visual system”, 2nd percentile ranking (2015 - 2017)

NIH/NINDS T32 “Neural Circuits Postdoctoral Training Program” (2014 - 2015)

Honors and Awards

Helena Anna Henzl-Gabor Travel Grant Award (2017)

Stanford Bio-X Travel Award (2017)

Central Virginia Chapter of the Society for Neuroscience Best Poster Presentation (2012)

Graduate Student Association Travel Award, VCU (2011)

Central Virginia Chapter of the Society for Neuroscience Travel Award (2011)

Japan Neuroscience Society Travel Award (2011)

Central Virginia Chapter of the Society for Neuroscience Top Abstract (2010)

Graduate Student Association Travel Award, VCU (2010)

Central Virginia Chapter of the Society for Neuroscience Top Abstract (2009)

Graduate School Travel Award, VCU (2009)

Graduate School Travel Award, VCU (2008)

Graduation with Honors (2005)

Golden Key International Honor Society (2002)

Kohl's Scholarship (2001)

Phi Eta Sigma National Honor Society (2001)

Virginia Commonwealth University Honors Program (2001)

Ad Hoc Reviewer

Neuron, Journal of Neuroscience, Nature Neuroscience, Cell Reports, eLife

Invited Talks

As Postdoc:

Minisymposium - Beyond the retina: Central visual circuits, The Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO), May 2017

As Graduate Student:

Harvard University, Department of Molecular and Cellular Biology, July 2012

University of California, San Diego, Department of Neurosciences, June 2012

Columbia University Medical Center, Department of Neuroscience, April 2012

University of California, Santa Cruz, Department of Molecular, Cell and Developmental Biology, June 2011

University of Tokyo, Department of Molecular and Systems Neurobiology, May 2011

Riken Brain Science Institute, May 2011

Professional Activities

Organizer, “Fairchild Neurobiology Floor Meeting”, Stanford University School of Medicine (2017 - present)

Instructor, “What is Sex? Biology, Sex, and Gender”, Stanford Splash (2017)

Student, “Vision: A Platform for Linking Circuits, Perception & Behavior”, Cold Spring Harbor Laboratory (2015)

Instructor, “Neuroanatomy Module”, Neuroscience Graduate Student Program Boot Camp, University of California, San Diego (2014)

Research Symposium Paper Evaluator, Virginia Junior Academy of Science (2009 - 2012)