

Mary S. Thompson

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EDUCATION

Regulatory Affairs Essentials Certificate (*in progress, 3/4 classes completed*)
University of California San Diego Extension (Online), 09/200X (expected)

Ph.D. Neuroscience

University of Virginia, Charlottesville, VA, 200X – 200X

B.S. Neuroscience, Minor English

Lafayette College, Easton, PA, 199X – 200X

WORK EXPERIENCE

Diffusion Pharmaceuticals, Charlottesville, VA (June 200X-present)

Summer Intern – Clinical Development and Laboratory Research Lab Research: Researched and implemented neurodegenerative disease model, created experimental plan, wrote SOPs, selected and ordered equipment, taught techniques to lab personnel. *Clinical/Regulatory:* Created **Target Product Profile** (TPP), participated in drug development team meetings, meetings with CRO, business and regulatory case studies, readings, discussions.

University of Virginia School of Medicine, Department of Neuroscience (200X–200X)

Graduate Researcher, Mentor: Jeffrey R. Holt, Ph.D., **Hearing and deafness research.** First to characterize the sensory process of inner auditory cells from the mouse. Experience with viral-vector gene transfer, electrophysiology, molecular biology, imaging. **Authored 5 papers (2 first author) and a book chapter, mentored graduate students, presented at 5 conferences.**

University of Virginia, Department of Psychology (Fall 200X)

Graduate Researcher (rotation), Mentor: Peter C. Brunjes, Ph.D., **Brain anatomy research.** Performed stereotaxic brain surgery, immunohistochemistry to examine neuronal architecture.

Lafayette College, Department of Biology (200X – 200X)

Undergraduate Researcher, EXCEL Scholar and Advanced Research, Mentor: Elaine R. Reynolds, Ph.D., **Epilepsy research.** Determined that anticonvulsant drugs ameliorate seizure symptoms in a drosophila model of epilepsy. Employed genetic, molecular, and in-vivo electrophysiological methods. Collected and analyzed data, presented at 2 conferences, published findings.

AWARDS

Graduate Biosciences Society (GBS) Travel Award, University of Virginia (200X)

NanoInnovation Grant™ from Physik Instrumente (200X)

\$25k from Physik Instrumente; along with Dr. Lelli (coworker) and Dr. Holt (advisor); “A Fast Mechanical Nanostimulator to Study Sensory Transduction and Amplification in the Inner Ear”

Graduate Biosciences Society (GBS) Research Symposium, University of Virginia (200X)
Poster Competition, First place out of 53

Award for Excellence in Scholarship in the Sciences and Engineering, University of Virginia (200X)
1 of 11 PhD students school wide in 200X

Robert J. Huskey Graduate School Research Exhibition, University of Virginia (200X)
Paper Presentation (talk), Third place

Eric Lothman Award in Neuroscience, University of Virginia (200X)

Fine Science Tools Travel Award, Society for Neuroscience Meeting (200X)

ADMINISTRATIVE / LEADERSHIP EXPERIENCE

Graduate Biosciences Society (GBS), University of Virginia School of Medicine (200X-200X)
Neuroscience representative. Solicited feedback on graduate student issues from neuroscience students, publicized events, presented talk at monthly seminar.

Outdoors at UVa, CIO (Contracted Independent Organization) at University of Virginia (200X-200X)
Vice President (200X); President (Fall 200X); Co-President (Spring 200X). Co-president of the second largest student-run organization at UVa (~500 members). Delegated responsibilities, received record funding, managed budget with treasurer, established relationships with vendors, created officer manual. Taught skills, handled logistics for trips as volunteer leader and instructor.

Neuroscience Graduate Program, University of Virginia (200X-200X)
Journal Club Coordinator. Organized bi-weekly meeting to discuss science articles.

TEACHING EXPERIENCE / VOLUNTEER WORK

Charlottesville, VA area elementary schools (200X – 200X)
Guest Teacher, kindergarten and elementary school classes (Brain Awareness Week)

University of Virginia School of Medicine, Charlottesville, VA (200X – 200X)
Teaching Assistant, brain anatomy lab for 1st year medical students

Lafayette College, Easton, PA (200X – 200X)
Peer Tutor, general chemistry

PROFESSIONAL MEMBERSHIPS

Regulatory Affairs Professionals Society (student member)
Association for Research in Otolaryngology
Society for Neuroscience
Psi Chi (National Honor Society in Psychology)

PUBLICATIONS

M.S. Thompson, J.R. Holt (200X). Sensory Transduction and Adaptation in Inner and Outer Hair Cells of the Mouse Auditory System. *J. Neurophys.* 98, 3360-9.

M.S. Thompson, A. Lelli, J.R. Holt (200X). "Hair Cell Transduction and Adaptation: Physiology and Molecular Mechanisms" In: *The Senses: Audition* (Dallos P, Oertel D, Hoy R, eds.), pp. 263-292; part of *The Senses: A Comprehensive Reference*, Boston, MA: Elsevier (ISBN:978-0126394825); book chapter.

J.R. Holt, **M.S. Thompson**, D. Abraham, G. S. G. Géléoc (200X). Dominant-Negative Inhibition of M-Like Potassium Conductances in Hair Cells of the Mouse Inner Ear. *J. Neurosci.* 27, 8940-51.

J. McGee, R.J. Goodyear, D.R. McMillan, **M.S. Thompson**, J.R. Holt, K.G. Locke, D.G. Birch, P.K. Legan, P.C. White, E.J. Walsh, and G.P. Richardson (200X). The very large G-protein-coupled receptor VLGR1: a component of the ankle link complex required for the normal development of auditory hair bundles. *J. Neurosci.* 24, 6543-53.

P.G. Gillespie, J.D. Scarborough, **M.S. Thompson**, J.R. Holt (200X). Fast adaptation in vestibular hair cells depends on myosin 1c. *Auditory Mechanisms: Processes and Models*, A.L. Nuttall, World Scientific, Hackensack, NY, pp. 169-175.

***M.S. Thompson**, *J.D. Scarborough, M. Hirono, E.D. Miller, K. Shah, J.A. Mercer, J.R. Holt and P.G. Gillespie (200X). Fast adaptation in vestibular hair cells requires myosin-1c activity. *Neuron* 47, 541-53. *cover image* *equal contributions.

E.R. Reynolds, **M.S. Thompson**, L. Feeney, E. Rojahn, B. Jacobs, C. McKeever (200X). Treatment with the antiepileptic drugs phenytoin and gabapentin ameliorates seizure and paralysis of Drosophila bang-sensitive mutants. *J. Neurobiol.* 58, 503-513.

MEETING ABSTRACTS

M.S. Thompson, J.R. Holt. Sensory Transduction and Adaptation in Inner and Outer Hair Cells of the Mouse Auditory System. Abstr ARO (talk), 200X.

G.S.G. Geleoc, **M.S. Thompson**, H.R. Eppard, J.R. Holt. Dominant-negative suppression of potassium conductances in hair cells of the mouse inner ear. Washington DC: Society for Neuroscience, Program No. 47.17 (200X).

M.S. Thompson, J.D. Scarborough, J.A. Mercer, P.G. Gillespie, J.R. Holt. Fast adaptation in vestibular hair cells requires myosin-1c activity. Washington DC: Neurons and Sensory Systems (Neuron satellite meeting), P81 (200X).

M.S. Thompson, J.D. Scarborough, J.A. Mercer, P.G. Gillespie, J.R. Holt. Fast adaptation in vestibular hair cells requires myosin-1c activity. Washington DC: Society for Neuroscience, Program No. 47.13 (200X).

M.S. Thompson, J.D. Scarborough, P.G. Gillespie, J.R. Holt. Fast adaptation in vestibular hair cells requires myosin-1c activity. Robert J. Huskey GSAS Research Exhibition, UVA, 200X.

J.R. Holt; D. Abraham; **M.S. Thompson**, and G.S.G. Géléoc. Specific inhibition of voltage-gated potassium conductances in mouse hair cells using a mutant form of KCNQ4. Abstr MBHD, 200X.

G. S.G. Géléoc, **M.S. Thompson** and J.R. Holt. Developmental acquisition of mechanotransduction in hair cells of the embryonic mouse utricle. Abstr ARO (poster), 200X.

M.S. Thompson, J. Scarborough, P.G. Gillespie, J.A. Mercer, J.R. Holt. Chemical-genetic inhibition of adaptation in vestibular and auditory hair cells. NGP Retreat, UVA, 200X.

M.S. Thompson, L. Feeney, B. Jacobs, E.R. Reynolds (200X). Antiepileptic drug action in a *Drosophila* model of epilepsy. 200X Abstract Viewer/Itinerary Planner. Washington DC: Society for Neuroscience, Program No. 797.7.

E.R. Reynolds, **M.S. Thompson**, L. Feeney, B. Jacobs, H. Kelly, C. McKeever (200X). Human epileptic drugs reduce seizure and paralysis in bang-sensitive mutants. *A. Conf. Dros. Res.* 43: 845B.