

ELLEN R. JOSEPH
josepher@neuron.ucla.edu

3400 West Chester Blvd.
Apartment 109
Los Angeles, CA 90669
(813) 566-4321

Department of Neuroscience
Science Center, Room 5480
18000 San Bernardino Blvd.
Los Angeles, CA 90620
(813) 321-1234

EDUCATION

Columbia University New York, NY
PhD, Neuroscience 2007
Dissertation: Development of synaptic plasticity in *Aplysia californica*

Dartmouth College Hanover, NH
BS, *magna cum laude*, Biology. Phi Beta Kappa 1999

GRANTS AND AWARDS

Post-Doctoral National Research Service Award 2007-2010
National Institute of Deafness and Other Communication Disorders, National Institutes of Health

Department of Neuroscience, Emerging Faculty Award 2007
Columbia University

Pre-Doctoral National Research Service Award 2003-2005
National Institute of Mental Health, National Institutes of Health

University Excellence in Teaching Award 2003, 2004
Columbia University

Graduate Fellowship 1999-2003
Columbia University

RESEARCH EXPERIENCE

University of California, Los Angeles Los Angeles, CA
Postdoctoral Fellow; Advisor: Young X. Shen 2007 – Present
Developmental regulation of NMDA receptor-mediated synaptic transmission in zebra finch brain

- Developed single cell PCR method to study developmental changes in NMDA receptors, correlated with developmental stages of song learning.
- Analyzed developmental changes in juvenile song using customized LabView software.
- Altered development of song with behavioral and circadian manipulations.

Columbia University New York, NY
Graduate Researcher; Advisor: Thomas J. Schmidt 2000 – 2007
Serotonergic modulation of synaptic transmission in developing and adult *Aplysia*

- Used *in vitro* single cell neurophysiological recording and stimulation to study developmental emergence of two serotonin-mediated forms of synaptic plasticity.

TEACHING EXPERIENCE

University of California, Los Angeles

Guest Lecturer and Consultant, Seminar in Animal Communication
Scientific Communication Advisor

Los Angeles, CA
Spring 2008
Spring 2006, Spring 2008

Columbia University

Guest Lecturer, Introductory Psychology
Head Teaching Assistant, Cellular Basis of Behavior
Teaching Assistant, Cellular Basis of Behavior
Teaching Assistant, Neurobiology

New York, NY
Summer 2004, 2005
Spring 2004
Spring 2003
Fall 2002

Dartmouth College

Teaching Assistant, Special Topics in Psychology
Teaching Assistant, Introductory Biology

Hanover, NH
Spring 1999
Fall 1997, Fall 1999

RELATED PROFESSIONAL EXPERIENCE

Columbia Graduate Women in Science (CGWS), Columbia University

Co-Founder and President

New York, NY
2005-2007

- Organized and led student representatives from 25 natural science departments to promote issues of concern to women scientists at Columbia
- Co-chaired Invited Speakers committee. Managed 3 public symposia featuring nationally-renowned women scientists

PROFESSIONAL ASSOCIATIONS

Society for Neuroscience
International Association of Electrophysiologists
New York Academy of Sciences

CONFERENCE PRESENTATIONS

Joseph, E.R. and Shen, Y.X. (2008). Synaptic maturation is input-specific and occurs in two phases in nucleus RA of the zebra finch. Society for Neuroscience Abstracts. Poster presentation to be delivered at the Society for Neuroscience meeting, San Diego, CA., November, 2008.

Joseph, E.R. and Shen, Y.X. (2007). Developmental regulation of NMDA receptor-mediated synaptic currents in nucleus RA of the zebra finch. Society for Neuroscience Abstracts. 25:191. Poster presentation delivered at the Society for Neuroscience meeting, Atlanta, GA, November, 2007.

Joseph, E.R. and Schmidt, T.J. (2006). Synaptic facilitation is independent of spike duration in sensory neurons of juvenile *Aplysia*. Society for Neuroscience Abstracts. 25:695. Poster presentation delivered at the Society for Neuroscience meeting, Washington, D.C., November, 2006.

Joseph, E.R. and Schmidt, T.J. (2004). Serotonergic facilitation of synaptic transmission in juvenile *Aplysia*. Society for Neuroscience Abstracts. 23:814. Oral presentation delivered at the Society for Neuroscience meeting, New Orleans, LA, November, 2004.

Joseph, E.R., Kline, N.J., and Schmidt, T.J. (2002). Temporal dissociation of 5HT-induced spike broadening and excitability in *Aplysia* sensory neurons. Society for Neuroscience Abstracts. 21:941. Oral presentation delivered at the Society for Neuroscience meeting, St. Louis, MO, November, 2002.

Joseph, E.R. and Schmidt, T.J. (2001). Teaching neuroscience through a laboratory experience: you can't start too young. Society for Neuroscience Abstracts. 20:518. Poster presentation delivered at the Society for Neuroscience meeting, Orlando, FL, November 2001.

PEER-REVIEWED PUBLICATIONS

Joseph, E.R. and Shen, Y.X. (2008). Two-stage, input-specific synaptic maturation in a nucleus essential for vocal production in the zebra finch. *Journal of Neuroscience*. 22:9107-9116.

Joseph, E.R. and Schmidt, T.J. (2007). Developmental dissociation of serotonin-induced spike broadening and synaptic facilitation in *Aplysia* sensory neurons. *Journal of Neuroscience*. 21:334-346.

Joseph, E.R., Chang, A.R., Kline, N.J., and Schmidt, T.J. (2006). Pharmacological and kinetic characterization of two functional classes of serotonergic modulation in *Aplysia* sensory neurons. *Journal of Neurophysiology*. 78:855-866.

Smythe, M.I., Vaidya, A.F., **Joseph, E.R.**, Belema, J.F., and Denny, K.M. (2000). Fetal expression of renin, angiotensinogen, and atriopeptin genes in chick heart. *Journal of Clinical and Experimental Hypertension*. A15: 617-629.

REVIEW ARTICLES

Joseph, E.R., LeBlanc, R., Kline, N.J., Bliss, E.A., and Schmidt, T.J. (2006). Central actions of serotonin across the life span of *Aplysia*: Implications for development and learning. In H. Koike, Y. Kidokoro, K. Takahashi, and T. Kanaseki (Eds.), Basic Neuroscience in Invertebrates (pp. 249-265). Tokyo: Japan Scientific Societies Press.

Kline, N.J., Bliss, E.A., **Joseph, E.R.**, and Schmidt, T.J. (2004). Differential modulatory actions of serotonin in *Aplysia* sensory neurons: Implications for development and learning. *Seminars in Neuroscience*. 9:21-33.

REFERENCES

Young X. Shen, Ph.D.
Horton W. Smith Professor of Neuroethology
Department of Neuroscience
University of California, Los Angeles
Science Center, Room 5485
18000 San Bernardino Blvd.
Los Angeles, CA 90260
(813) 321-1233
shenyx@neuron.ucla.edu

Akaysha M. Lin, Ph.D.
Associate Professor of Psychology
University of California, Los Angeles
William James Laboratories, Room B18
Los Angeles, CA 90243
(813) 321-9999
linam@psych.ucla.edu

Thomas J. Schmidt, Ph.D.
Elias T. Young Professor of Psychology
Department of Neuroscience
Columbia University
2649 Washington Blvd.
New York, NY 12345
(212) 999-5678
tjschmidt@fas.columbia.edu

This CV is appropriate for applying to tenure-track faculty positions at research universities. If Ellen were applying for a faculty job at a liberal arts college, she might have chosen to place Teaching Experience on the first page and would have included descriptions of her teaching experience.