

Stephen E. Grossman

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EDUCATION:

Brandeis University, Pre-doctoral training, Neuroscience Program, Ph.D. expected 6/2008
Indiana University, Bachelor of Arts, 2000, Major: Cognitive Science; Minor: Psychology, GPA: 3.67
Hebrew University, Jerusalem, Israel, 1999, Semester Abroad

RESEARCH EXPERIENCE:

Brandeis University, Department of Neuroscience, Waltham, MA.

Ph.D. Candidate

2002 - Present

- Combined *in vivo* electrophysiology in rats with an associative learning paradigm, condition taste aversion, to examine learning-related changes in neural function and animal behavior.
- Revealed novel properties of taste coding and information transfer between groups of simultaneously recorded cortex and amygdala neurons.
- Performed surgeries on rats involving implantation of micro-wire recording electrodes and intra-oral cannulae for taste fluid delivery.
- Innovated new techniques for improving stimulus delivery capabilities, surgery, and neural recording procedures.
- Trained incoming lab members in all aspects of experimental techniques and lab procedures.

McLean Hospital, Molecular Pharmacology Dept., Belmont, MA.

Laboratory Manager and Research Assistant

2000 - 2002

- Initiated and performed *in situ* hybridization protocol to determine the regional expression patterns of c-fos RNA following acute and chronic neuroleptic drug exposure in rats.
- Performed intrajugular cannulation for acute I.V. neuroleptic administration.
- Developed brain tissue image analysis in 3-dimensions using light microscopy and computer automation software.
- Measured choline uptake and metabolism across the blood-brain barrier.
- Received and dissected human brains from recently deceased donors for post-mortem experimentation.

Indiana University, Dept. of Psychology, Bloomington, IN.

Research Assistant

1997 - 2000

- Studied neural function during eye-blink conditioning in rabbits using electrophysiological and behavioral methods.
- Surgical assistant during implantation of stimulating and recording electrodes in the cerebellum of rabbits.
- Assisted in trial running, data collection and data analysis.

TEACHING EXPERIENCE:

Brandeis University, Waltham, MA

Presenter, Yearly Life Science Seminars 2004 - 2008

- Presented dissertation research results to Life Sciences community.
- Reported on recent journal publications of interest to Life Sciences community.

Teacher's assistant, Department of Psychology, Introduction to Behavioral Neuroscience 2003 - 2006

- Ran review sessions for exam preparation.
- Wrote, proctored, and graded exams.
- Delivered lectures during professor's absence.

Teacher's assistant, Department of Biology, General biology lab 2003

- Directed weekly biology lab for undergraduate students.
- Graded lab reports, wrote and proctored midterm and final exams.

PROFESSIONAL MEMBERSHIPS:

Society for Neuroscience, 2002 - Present

Association for Chemoreception Sciences, 2004 - Present

FUNDING:

NIDCD NRSA Pre-Doctoral Training Grant 1F31DC008720, 2007 - 2009

CONFERENCE ABSTRACTS:

Grossman, S.E., Katz, D.B., (2005). Cortical processing of taste and conditioned taste aversion. Poster presentation at the 35th annual meeting of the Society for Neuroscience, Nov. 12 – 16, Washington D.C.

Grossman S.E., Katz, D.B., (2007). Amygdalar and cortical processing of taste and conditioned taste aversion. Poster presentation at the 29th annual meeting of the Association for Chemoreception Sciences. April 25 – 29, Sarasota, FL.

Grossman, S.E., Fontanini A., Wieskopf, J., Katz, D.B., (2007). Amygdalar and cortical processing of taste and conditioned taste aversion. Poster presentation at the 37th annual meeting of the Society for Neuroscience, Nov. 3 – 7, San Diego, CA.

PUBLICATIONS:

Fontanini, A., Grossman, S. E., Revill, B. A., & Katz, D. B. (2005). Neural ensembles in taste coding. To appear in: The Handbook of Perception.

Grossman, S.E., Fontanini, A., Wieskopf, J., Katz, D.B. (in press). Learning-related plasticity of temporal coding in simultaneously-recorded amygdala-cortical ensembles. *Journal of Neuroscience*.

Fontanini, A., Grossman, S.E., Katz, D.B. (in prep). Dynamic amygdalar encoding of multiple taste qualities.