

Yun Zhang

curriculum vitae

Howard Hughes Medical Institute
Laboratory of Neural Circuits and Behavior
The Rockefeller University
New York, NY 10021, USA

Lab phone: 212-327-7411
Cell phone: 415-359-3786
E-mail: yzhang@rockefeller.edu

Personal Data

Date of Birth: March 22, 1973
Gender: Female

Education and Research Experience

- Postdoctoral Fellow, Advisor: Dr. Cori Bargmann 2002–
The Rockefeller University, Laboratory of Neural Circuits and Behavior
Relocated from University of California, San Francisco since 2004
Research Topic: Molecular and cellular studies on neural circuits that regulate
olfactory learning in *Caenorhabditis elegans*
- Ph.D., Biology, Advisor: Dr. Martin Chalfie 1996-2002
Columbia University, Department of Biological Sciences
Thesis Title: Identification of genes needed for the differentiation of
Caenorhabditis elegans touch receptor neurons
- M.Phil. and M.A., Biology 1996-1997
Columbia University, Department of Biological Sciences
- B.S., Biochemistry and Molecular Biology 1992-1996
Beijing University, China

Teaching Experience

- Teaching Assistant, Columbia University, Department of Biological Sciences 1998
Assisted professor Lawrence Chasin and professor Deborah Mowshowitz in
undergraduate course “Introduction to Molecular and Cellular Biology”. Attended
lectures, conducted twice-weekly recitations, designed quizzes and graded exams.
- Teaching Assistant, Columbia University, Department of Biological Sciences 1997
Assisted instructor Claire Lise Hazen in undergraduate course “Contemporary
Biological Laboratory”. Supervised and advised students in the lab course, held
weekly office hour, graded lab reports and exams.

Awards and Fellowships

- F. M. Kirby Postdoctoral Fellowships in Sensory Neuroscience 2005-
The Rockefeller University
- American Heart Association Postdoctoral Research Award 2003-2004
- Faculty Fellowship for Graduate Research, Columbia University 1996-2002
- Guanghua Fellowship for Academic Excellency 1995
Beijing University, China
- Lianhe Fellowship for Academic Excellency 1994
Beijing Univeristy, China
- Guanghua Fellowship for Academic Excellency 1993
Beijing University, China

Refereed Publications

1. **Zhang, Y.**, Lu, H. and Bargmann, C. I. Pathogenic bacteria induce aversive olfactory learning in *C. elegans*. *Nature*, Article in press (2005).
2. Pradel, E.*, **Zhang, Y.***, Matsuyama, T., Bargmann, C. I. and Ewbank, J. J. Detection and avoidance of a natural product from the pathogenic bacterium *Serratia marcescens* by *Caenorhabditis elegans*. * Equal contributions. *Nature* manuscript 2005-09-10264, under revision (2005).
3. **Zhang, Y.**, Ma, C., Delohery, T., Nasipak, B., Foat, B. C., Bounoutas, A., Bussemaker, H. J., Kim, S. K. and Chalfie, M. Identification of genes expressed in *C. elegans* touch receptor neurons. *Nature* 418, 331-335 (2002).
4. **Zhang, Y.** and Chalfie, M. MTD-1, a touch-cell-specific membrane protein with a subtle effect on touch sensitivity. *Mechanisms of Development* 119, 3-7 (2002).

Selected Abstracts (national and international conferences)

Conference Press Book

1. **Zhang, Y.**, Lu, H., and Bargmann, C. I. Enhanced signaling of a serotonergic circuit regulates aversive olfactory learning of *C. elegans*. 2005 American Society of Cell Biology Annual Meeting Press Book, "Novel & Newsworthy Top Ten", to appear, San Francisco, CA, 2005.

Oral Presentations

1. **Zhang, Y.**, Lu, H., and Bargmann, C. I. Enhanced signaling of a serotonergic circuit regulates aversive olfactory learning of *C. elegans*. 2005 American Society of Cell Biology Annual Meeting, Minisymposium "Building Sensory Networks", to appear, San Francisco, CA, 2005.
2. **Zhang, Y.**, Lu, H., and Bargmann, C. I. Enhanced signaling of a serotonergic circuit regulates aversive olfactory learning of *C. elegans*. 15th International *C. elegans* Meeting, University of California, Los Angeles, CA, 2005.
3. **Zhang, Y.**, Lu, H., and Bargmann, C. I. Olfactory learning of *C. elegans* in response to pathogenic bacteria. West Coast *C. elegans* Meeting, University of California, Santa Barbara, CA, 2004.
4. **Zhang, Y.**, and Bargmann, C. I. Olfactory learning in response to pathogenic bacteria. 14th International *C. elegans* Meeting, University of California, Los Angeles, CA, 2003.
5. **Zhang, Y.**, Ma, C., Delohery, T., Kim, S. K. and Chalfie, M. Generation of cell-type-specific RNA and gene expression profiles for mechanosensation neurons in *C. elegans*. 13th International *C. elegans* Meeting, University of California, Los Angeles, CA, 2001.

Posters

1. **Zhang, Y.**, Lu, H., and Bargmann, C. I. Enhanced signaling of a serotonergic circuit regulates aversive olfactory learning of *C. elegans*. EMBO Workshop, "The assembly and function of neuronal circuits", Monte Verità, Ascona, Switzerland, 2005.
2. **Zhang, Y.**, and Bargmann, C. I. Olfactory learning in response to pathogenic bacteria. Neural Circuits & Plasticity Gordon Research Conference, Salve Regina University, Rhode Island, 2003.
3. **Zhang, Y.**, and Chalfie, M. A *mec-3*-dependent gene identified by reverse genetics. East Coast *C. elegans* Meeting, Emory University, Atlanta, GA, 2000.
4. **Zhang, Y.**, and Chalfie, M. *mec-3*-dependent cDNAs. East Coast *C. elegans* Meeting, Boston, MA, 1998.

References

- Dr. Cori Bargmann, Postdoctoral Advisor, Professor, Howard Hughes Medical Institute, Laboratory of Neural Circuits and Behavior, The Rockefeller University, Rockefeller Research Building Room 841, 1230 York Avenue, New York, NY 10021.
Office Phone: (212) 327-7242, Lab Phone: (212) 327-7411, Fax: (212) 327-7243,
E-mail: cori@rockefeller.edu

- Dr. Martin Chalfie, Doctoral Advisor, Professor, Columbia University, Department of Biological Sciences, 1012 Fairchild Center, M.C. 2446, New York, NY 10027.
Office Phone: (212) 854-8870, Lab Phone: (212) 854-3066, Fax: (212) 865-8246,
E-mail: mc21@columbia.edu
- Dr. Leslie Vosshall, Assistant Professor, Head of Laboratory of Neurogenetics and Behavior, The Rockefeller University, 1230 York Avenue, Box 63, New York, NY 10021.
Office Phone: (212) 327-7236, Lab Phone: (212) 327-7139, Fax: (212) 327-7238,
E-mail: leslie@mail.rockefeller.edu
- Dr. Wenbiao Gan, Assistant Professor, Molecular Neurobiology Program, Skirball Institute, New York University Medical Center, 540 First Avenue, 5th Floor Lab 4, New York, NY 10016.
Office Phone: (212) 263-2585, Lab Phone: (212) 263-2586, Fax: (212) 263-8214,
E-mail: gan@saturn.med.nyu.edu