

Curriculum Vitae

Margot E. Quinlan, Ph.D. (formerly Leonard)

600 - 16th Street, Room GH-N314
Dept. of Cellular and Molecular Pharmacology
University of California San Francisco
San Francisco, CA 94158
(415) 514-0133

855 Folsom St. #942
San Francisco, CA 94107
(415) 225-2231
margot@mullinslab.ucsf.edu

Current Position Postdoctoral Fellow, University of California San Francisco

Education

2002	University of Pennsylvania, PA	Ph.D.	Cell and Molecular Biology
1991	Reed College, OR	B.A.	Biology

Honors and Awards

2008	Alexander and Renee Kolin Endowed Professorship of Molecular Biology and Biophysics
2006-2011	Career Award in the Biomedical Sciences, Burroughs-Wellcome Fund
2006	Postdoctoral Fellowship, American Heart Association, Declined
2004	Postdoctoral Fellowship, American Cancer Society, Honorable Mention
1994-1999	Predocotrual Fellow in Biological Sciences, Howard Hughes Medical Institute
1994	Predocotrual Fellowship, National Science Foundation, Honorable Mention
1991	Summer Fellow, American Heart Association
1991	Commended for Excellence in Scholarship, Reed College
1986	Lifetime member, California Scholarship Federation

Research Experience

2008-	Assistant Professor, Department of Chemistry and Biochemistry, University of California Los Angeles
2007	Student, Advanced Topics: <i>Drosophila</i> Genetics and Genomics, Wellcome Trust, England (<i>Directors</i> : Michael Ashburner and Scott Hawley)
2002-present	Postdoctoral Fellow, Department of Cellular and Molecular Pharmacology, University of California San Francisco (<i>Mentor</i> : R. Dyché Mullins, Ph.D.)
1995-2002	Doctoral Candidate, Department of Physiology, University of Pennsylvania (<i>Mentor</i> : Yale E. Goldman, M.D., Ph.D.)
1995	Student, Physiology Course, Marine Biological Laboratories, Woods Hole, MA (<i>Director</i> : Mark Mooseker, Ph.D.)
1991-1993	Wissenschaftliche Hilfskraft (Scientific Help), Internal Medicine, Universität Erlangen-Nürnberg, Germany (<i>Mentor</i> : Prof. Friedrich C. Luft, M.D.)
1990-1991	Undergraduate senior thesis, Biology Department, Reed College, 1990-1991 (<i>Mentors</i> : Stephen Arch, M.D., Ph.D., and Jonathon J. Abramson, Ph.D.)
1988-1989	Lab Assistant I, Department of Orthopaedics, University of California San Diego (<i>Mentor</i> : Richard L. Lieber, Ph.D.)

Invited Presentations

- 2008 University of Washington, Department of Biochemistry
- 2007 ASCB, Cytoskeletal Dynamics and Polarity Minisymposium
- 2006 Biophysical Society Discussion - Molecular Motors: Point Counterpoint
- 2005 ASCB, Cell Migration Consortium - Structure Initiative Subgroup Meeting
- 2004 Research In Progress Seminars, University of California San Francisco
- 1999 Gordon Research Conference on Muscle: Contractile Proteins
- 1998 Sixth Retreat of the Pennsylvania Muscle Institute, University of Pennsylvania
- 1997 EMBO-Alpbach Workshop on Muscle

Teaching Experience

- 2008 Assistant, Physiology Course, Marine Biology Laboratories, Woods Hole, MA
- 2007 Assistant, Physiology Course, Marine Biology Laboratories, Woods Hole, MA
- 2006 Mentor, University of California San Francisco
Designed project for and mentored a (rotation) graduate student.
- 2005 Mentor, UCSF Summer Research Training Program
The program is designed to introduce underrepresented and minority undergraduates to academic research. I mentored a student in the laboratory.
- 2004 Instructor, Seminar in Cell Motility (Biology 865), San Francisco State University
Master's level seminar class. Students learned how to analyze and present current literature while studying cell motility with an emphasis on the actin cytoskeleton.
- 2003-2004 Postdoctoral Teaching Fellow, University of California San Francisco and San Francisco State University (FIPSE) (*Mentor*: Jennifer Breckler, Ph.D.)
The program includes a teaching course and the opportunity to teach with a mentor. I co-instructed Human Physiology (Biol 612), giving several lectures and exams.
- 1997-1998 Teaching Assistant, Advanced *in situ* Hybridization and Immunocytochemistry, Cold Spring Harbor, NY, 1997 and 1998 (*Mentor*: John Murray, M.D.)
Intensive two week course. Responsibilities included guiding students in a laboratory environment, maintaining cell culture facility and reagent preparation.
- 1994-1996 Teaching Assistant, Physiology, School of Medicine, University of Pennsylvania
Assisted with laboratory section of physiology course for first year medical students and graded exams.

University Services

- 2005-present Postdoctoral Representative, Dept. of Cellular and Molecular Pharmacology
Organized first mentorship program and annual seminar for postdoctoral fellows.
- 2006 Member of Advisory Committee, Preparing Future Faculty Seminar Series
- 2004 – 2005 Co-organizer, Research in Progress Seminar Series
In house seminar series organized by and for students and postdoctoral fellows.

Professional Associations

- 2003-present American Society of Cell Biology
- 1995-2004 Biophysical Society

Publications

Peer Reviewed

- Quinlan, M.E., S. Hilgert, A. Bedrossian, R.D. Mullins and E. Kerkhoff. Regulatory interactions between two actin nucleators, Spire and Cappuccino. *J. Cell Biol.* 179:117-128, 2007.
- Quinlan, M.E., J.E. Heuser, E. Kerkhoff and R.D. Mullins. *Drosophila* Spire is an actin nucleation factor. *Nature.* 433:382-388, 2005.
- Quinlan, M.E., J.N. Forkey and Y.E. Goldman. Orientation of the Light Chain Region in Myosin By single- and Multi-Molecule Total Internal Reflection Fluorescence Polarization Microscopy. *Biophys. J.* 89:1132-1142, 2005.
- Forkey, J.N., M.E. Quinlan and Y.E. Goldman. Orientation of Single Macro-molecules by Total Internal Reflection Fluorescence Polarization Microscopy. *Biophys. J.* 89:1261-1271, 2005.
- Forkey, J.N., M.E. Quinlan, M.A. Shaw, J.E.T. Corrie and Y.E. Goldman. Three-dimensional structural dynamics of myosin V by single-molecule fluorescence polarization. *Nature.* 422:399-404, 2003.
- Lieber, R.L., M.E. Leonard, C.G. Brown. Muscle contraction effects on aponeurosis and tendon load-strain properties. *Cells, Tissues Organs*, 166:48-54, 2000.
- Veelken, R., M.E. Leonard, A. Stetter, K.F. Hilgers, J.F.E. Mann, P.W. Reeh, H. Geiger and F.C. Luft. Pulmonary serotonin 5-HT₃-sensitive afferent fibers modulate renal sympathetic nerve activity in rats. *Am. J. Physiol.* 272:H979-86, 1997.
- Veelken, R., K.F. Hilgers, T. Ditting, M.E. Leonard, J.F.E. Mann, H. Geiger and F.C. Luft. Impaired cardiovascular reflexes precede deoxycorticosterone acetate-salt hypertension. *Hypertension.* 24:564-70, 1994.
- Veelken, R., K.F. Hilgers, M.E. Leonard, K. Scrogin, J. Ruhe, J.F.E. Mann and F.C. Luft. A highly selective cardiorenal, serotonergic, 5-HT₃-mediated reflex in rats. *Am. J. Physiol.* 264:H1871-H1877, 1993.
- Lieber, R.L., M.E. Leonard, C.G. Brown and C.L. Trestik. Frog semitendinosus tendon load-strain and stress-strain properties during passive loading. *Am. J. Physiol.* 261:C86-C92, 1991.

Invited

- Quinlan, M.E., E. Kerkhoff. Actin Nucleation: Bacteria get InSpired. *Nat. Cell. Biol.* 10:13-15, 2008.
- Rosenberg, S.A., M.E. Quinlan, F.N. Forkey and Y.E. Goldman. Rotational motions of macro-molecules by single-molecule fluorescence microscopy. *Acc. Chem. Res.* 38:583-593, 2005.
- Quinlan, M.E., J.N. Forkey, Y.E. Goldman. KinesinADP: whole lotta shakin' goin' on. *Nat. Struct. Biol.* 8:478-480, 2001.
- Forkey, J.N., M.E. Quinlan, Y.E. Goldman. Protein structural dynamics by single-molecule fluorescence polarization. *Prog. Biophys. Mol. Biol.* 74:1-35, 2000.