

JENNIFER N. SKIRKANICH, PH.D.

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EDUCATION

- December 2010 **University of Pennsylvania School of Medicine** Philadelphia, PA
Biomedical Graduate Studies
Cell and Molecular Biology Graduate Group
Ph.D. in Developmental, Stem Cell and Regenerative Biology
- May 2003 **Honors College, Stony Brook University** Stony Brook, NY
Biology Major, Biomedical Engineering Minor
Developmental Genetics and Neurobiology Tracks
B.S. in Biology with Departmental Honors, *Cum Laude*

EXPERIENCE

- 2013 – present **Lecturer**, Department of Biology, Bryn Mawr College
- 2010 – 2013 **Penn-PORT Fellow**, laboratory of Todd Lamitina, Ph.D.
Penn Post-doctoral Opportunities in Research and Teaching
Department of Physiology, University of Pennsylvania
- 2003 – 2010 **Doctoral Dissertation**, laboratory of Peter Klein, M.D., Ph.D.
Department of Medicine, University of Pennsylvania
Thesis Title: *The role of pre-MBT transcription in embryonic development*
- 2001 – 2003 **Senior Thesis**, laboratory of Gerald Thomsen, Ph.D.
Department of Biochemistry and Cell Biology, Stony Brook University
Thesis Title: *Characterization of α NectR, a novel gene, in Xenopus development*
- 2000 – 2003 **Research Assistant**, laboratory of Gerald Thomsen, Ph.D.
Department of Biochemistry and Cell Biology, Stony Brook University
- Summer 2002 **HHMI Undergraduate Research Fellow**, laboratory of Gerald Thomsen, Ph.D.
Department of Biochemistry and Cell Biology, Stony Brook University
- Summer 2000 **Research Assistant**, laboratory of Gary Zieve, Ph.D.
Department of Pathology, Stony Brook University

TEACHING EXPERIENCE AND TRAINING (CONTINUED ON NEXT PAGE)

- Spring 2012 **Instructor, Course Designer**, BIO 390: Stem Cell Biology and Regenerative Medicine
Biology Department, Lincoln University
- Fall 2011 **Instructor**, BIO 104: General Biology II for Biology Majors
Biology Department, Lincoln University

- Spring 2011 **Penn-PORT Fellow**, College and University Teaching Seminar, University of Pennsylvania. Received training in pedagogical techniques and curriculum development for university courses in the sciences with a particular emphasis on teaching in the Minority Serving Institution context.
- 2011 – 2013 **Guest Lecturer**, BIOL 354: Developmental Biology, University of Pennsylvania
- Fall 2010 **Guest Lecturer**, Academically Based Community Service (ABCS) Regeneration Course, Institute for Regenerative Medicine and the Netter Center for Community Partnerships, University of Pennsylvania
- Summer 2010 **Curriculum Development**, ABCS Regeneration Course and Bridge to ReBIO science outreach program, Institute for Regenerative Medicine, University of Pennsylvania
- Spring 2008 **Teaching Assistant, Guest Lecturer**, BIOL 354: Developmental Biology, Department of Biology, University of Pennsylvania
- Spring 2003 **Teaching Assistant**, BIO 339: Molecular Development of the Nervous System, Department of Biology, Stony Brook University
- Fall 2002 **Teaching Assistant**, BIO 361: Biochemistry, Department of Biology, Stony Brook University

OUTREACH AND MENTORING EXPERIENCE

- Spring 2013 **Co-Chair**, Community Service Committee, Biomedical Post-Doctoral Council, University of Pennsylvania School of Medicine
- Spring 2010 **Mentor**, Bridge to ReBIO: science outreach at West Philadelphia High School
- Spring 2009 **Mentor**, Bridge to ReBIO: science outreach at Girls High, Philadelphia
- Spring 2008/9 **Judge**, George Washington Carver Science Fair, Philadelphia, PA
- 2005-2009 **Mentor**, undergraduate and high school students, Laboratory of Dr. Peter Klein

AWARDS

- Fall 2010 NIH IRACDA Post-doctoral fellowship, Penn-PORT Program
- 2003 – 2005 NIH Cell and Molecular Biology Training Grant, T32-GM07229
- Fall 2003 Distinguished Scholars Award, Biomedical Graduate Studies, University of Pennsylvania
- Spring 2003 State University of New York Chancellor's Award for Student Excellence
- Spring 2003 Erwin Oster Prize for Genetics Research, Stony Brook University
- Spring 2003 Phi Beta Kappa Honor Society Member
- Summer 2002 Howard Hughes Medical Institute Undergraduate Research Fellowship
- Spring 2002 Sigma Xi Research Society Award for Life Sciences
- 1999 – 2000 Stony Brook University Honors College Scholarship

SELECTED MEETINGS AND EVENTS (CONTINUED ON NEXT PAGE)

- June 2012 National IRACDA Meeting, Philadelphia, PA
Co-Organizer, Conference Planning Committee
- March 2012 Lincoln University Biology Department Seminar Series
Invited speaker, *Modeling cystic fibrosis and membrane protein misfolding in C. elegans.*
- June 2011 National IRACDA Meeting, Houston, TX
Oral presentation, *Academically Based Community Service (ABCS) courses: an innovative teaching model for urban colleges and universities.*

- June 2011 Society for Developmental Biology Mid-Atlantic Meeting, Philadelphia, PA
Education Session Organizer, *Science Outreach: a Practical Guide*.
- August 2010 Society for Developmental Biology 69th Annual Meeting, Albuquerque, NM
Invited speaker/Co-instructor, Education Workshop: *Bench Scientists can do Science Outreach*.

SELECTED POSTER PRESENTATIONS

- June 2011 18th International *C. elegans* Meeting, Los Angeles, CA
 Presented poster: *Modeling membrane protein misfolding in C. elegans*.
- July 2009 Society for Developmental Biology 68th Annual Meeting, San Francisco, CA
 Presented poster: *The role of VegT in the pre-MBT development of X. laevis*.
- June 2008 Santa Cruz Developmental Biology Meeting, Santa Cruz, CA
 Presented poster: *The role of VegT in the pre-MBT development of X. laevis*.
- Spring 2007 Regional Society for Developmental Biology Meeting Princeton, NJ
 Presented poster: *The role of the maternal transcription factor VegT in the pre-MBT development of Xenopus laevis*.
- Spring 2002 Stony Brook University Celebration of Undergraduate Achievements
 Presented poster: *Identifying the players in the TGFB signaling pathway: Smurf interacting proteins*.
 • Awarded Sigma Xi Research Society Prize for Life Sciences

PUBLICATIONS

He, L., Skirkanich, J., Moronetti, L., Lewis, R., and Lamitina, T. (2012). The Cystic Fibrosis-associated deltaF508 mutation confers post-transcriptional destabilization on the *C. elegans* ABC transporter PGP-3. *Disease Models and Mechanisms*, 5(6):930-9.

Skirkanich, J.*, Luxardi, G.*, Yang, J., Kodjabachian, L., and Klein, P. S. (2011). An essential role for transcription before the MBT in *Xenopus laevis*. *Developmental Biology*, 357(2):478-91.

*denotes shared authorship

ADDITIONAL LEADERSHIP EXPERIENCE AND PROFESSIONAL MEMBERSHIPS

Co-founder, Science Education Journal Club, University of Pennsylvania
 Member, Developmental, Stem Cell and Regenerative Biology Curriculum Review Committee, Cell and Molecular Biology Graduate Group, University of Pennsylvania

Member, The Genetics Society of America Member, The Society for Developmental Biology Member, The National Association of Women in Science
 Member, Institute for Regenerative Medicine, University of Pennsylvania