

Deborah J. Frank, PhD

Scientific Editor

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Education

- 2000 PhD, Molecular and Cellular Biology, Fred Hutchinson Cancer Research Center and University of Washington
- 1993 BS, Biochemistry and Cell Biology, University of California San Diego

Positions Held

- 2021–present Senior Scientific Editor, Department of Obstetrics and Gynecology, Washington University School of Medicine in St. Louis
- Provide comprehensive editing - at the levels of scientific content, clarity of writing, grammar, and highlighting of significance - of grant proposals and research articles written by faculty members, fellows, residents, and graduate students in the department
 - Provide additional resources, such as mentorship, support, and strategic planning/input
 - Teach graduate students, fellows, and research technicians in the department how to develop and write research manuscripts
- 2012–2021 Scientific Editor, Department of Obstetrics and Gynecology, Washington University School of Medicine in St. Louis
- Established the *Scientific Editing Service* to serve faculty members, fellows, residents, postdoctoral fellows, and graduate students
- 2006–2011 Research Scientist, Department of Biology, Washington University in St. Louis (laboratory of Kathryn G. Miller)
- Function and regulation of Myosin VI in *Drosophila* spermatogenesis
- 2001–2006 Postdoctoral Fellow, Department of Biology, Washington University in St. Louis (laboratory of Kathryn G. Miller)
- Actin cytoskeleton regulation
- 1994–2001 Graduate Student, Fred Hutchinson Cancer Research Center and University of Washington (laboratory of Mark B. Roth)
- Regulation of cell growth in *C. elegans* and *D. melanogaster* by *ncl-1/brat*
- 1990–1994 Undergraduate Research Assistant/Research Technician, University of California San Diego (laboratory of James T. Kadonaga)
- Structure and function of an RNA Polymerase II transcription factor

Teaching Positions and Activities

- 2018-2019 Facilitator, The Grantsmanship Workshop, University of Ghana, Accra, Ghana
- Helped develop and teach four-day workshops for 25-45 research fellows (equivalent to assistant professors) and trainees
- 2017-2019 Guest Lecturer, Communicating Science: Writing for Multiple Audiences, Washington University in St. Louis
- 2015-2019 Writing Instructor, BP ENDURE St. Louis: a Neuroscience Pipeline, Washington University in St. Louis
- Developed, taught, and oversaw other instructors in a 10-week mock-fellowship-writing course and a manuscript-writing course for ~20 undergraduates from groups under-represented in the neurosciences
- 2009–2019 Mentor, NSF graduate research fellowship proposal writing workshops, Washington University in St. Louis (seven years)
- 2011–2018 Writing Instructor, Amgen Summer Scholars Program, Washington University in St. Louis
- Developed, taught, and oversaw other instructors in a 10-week workshop to guide ~25 undergraduate scholars in writing mock fellowship proposals
- 2016 Guest Lecturer, Fundamentals of Scientific Writing, Washington University in St. Louis
- 2015 Writing Instructor, Opportunities in Genomics Research Extensive Study Program, Washington University in St. Louis
- Developed and taught a mock-fellowship-writing course for post-baccalaureate scholars from groups under-represented in the life sciences
- 2008, 09, 11 Instructor, Molecular Mechanisms in Development, Washington University in St. Louis
- Junior/senior level writing-intensive course
- 2007 Teaching Assistant, Molecular Mechanisms in Development
- 2003–2006 Instructor, Current Issues in Biomedical Ethics, University College, Washington University in St. Louis
- Developed and taught this non-majors course

Professional Memberships

- 2018–present Member, Washington University in St. Louis Institutional Review Board
- 2016–present Co-founder, Scientific Editors Network (ScENe)
- National online network of ~100 academic and commercial scientific editors
 - Organize monthly conference calls focused on topics of interest to ScENe members
- 2015–present Member, National Organization of Research Development Professionals (NORDP)

Professional Development and Academic Community Activities

- 2021 Reviewer, Abstracts for NORDP Annual Conference 2022
- 2021 Presenter and participant, NORDP Virtual Conference
- Oral presentation: Deborah Frank, Laura Bauler, Melissa Li, Katie Lindl. *Creating and Managing Expectations with Clients*
- 2020 Presenter, NORDP Virtual Conference
- Webinar: Justin Flory, Deborah Frank, Jessica Moon, Samarпита Sengupta. *Scientists in Research Development – Turning Ideas into Compelling Proposals*
- 2020 Presenter, NORDP Virtual Ideas Showcase
- Poster presentation: Deborah Frank, Christine Blaumueller, and Meagan Ramsey. *Scientific Editors Network – Promoting Synergy Among Research Development Professionals Who Improve Science One Word at a Time*
- 2020 Course completer, NIH online course *Introduction to the Principles and Practice of Clinical Research*
- 2019 Invited seminar speaker, University of Iowa Carver College of Medicine
- *Thinking Like a Reviewer: Strategies to Improve Grant Success*
- 2018 Participant, NIH Regional Seminar on Program Funding and Grants Administration
- 2016 Presenter and participant, NORDP Conference
- Poster presentation: Deborah Frank and Christine Blaumueller. *Enhancing Biomedical Sciences Grant Success Through Scientific Editing*
- 2015 Member, Professional Leadership Academy & Network, Washington University in St. Louis
- 2014 Presenter and participant, Editors Retreat at University of Iowa
- 2012 Participant, NIH Regional Seminar on Program Funding and Grants Administration
- 2012 Participant, iTeach Symposium, Washington University in St. Louis
- 2010 Presenter, iTeach Symposium, Washington University in St. Louis
- *Using Tablet PCs to Help Students Become Better Collaborators, Critical Thinkers, and Communicators*
- 2009 Science Writer, Working Group on Women in Biomedical Careers at the St. Louis, MO, conference “Moving into the Future: New Dimensions and Strategies for Women’s Health Research” sponsored by the Office of Research on Women’s Health, NIH

Honors

- 2002–2005 NIH Postdoctoral Fellowship
- 2001–2002 W.M. Keck Postdoctoral Fellowship
- 1995–1998 NSF Graduate Research Fellowship
- 1993 Magna Cum Laude, University of California San Diego

- 1993 Phi Beta Kappa, University of California San Diego
1990–1993 Fifth College (University of California San Diego) Provost's Honors List
1990–1993 Regents Scholar, University of California San Diego

Research Publications

1. Pravder HD, Grabowska D, Roychoudhury K, Zhang B, Frank D, Zakrzewski P, Lenartowska M, and Miller KG. PFTAIRE Kinase L63 Interactor 1A (Pif1A Protein) is required for actin cone movement during spermatid individualization in *Drosophila melanogaster*. *Int. J. Mol. Sci.* 2022, 23(6), 3011; <https://doi.org/10.3390/ijms23063011>
2. Isaji M, Lenartowska M, Noguchi T, Frank DJ, and Miller KG. 2011. Myosin VI regulates actin structure specialization through conserved cargo-binding domain sites. *PLoS ONE* 6 (8): e22275.
3. Noguchi T*, Frank DJ*, Isaji M, and Miller KG. 2009. Coiled-coil-mediated dimerization is not required for myosin VI to stabilize actin during spermatid individualization in *Drosophila melanogaster*. *Mol. Biol. Cell* 20: 358-367.
4. Noguchi T, Lenartowska M, Rogat AD, Frank DJ, and Miller KG. 2008. Proper cellular reorganization during *Drosophila* spermatid individualization depends on actin structures composed of two domains, bundles and meshwork, that are differentially regulated and have different functions. *Mol. Biol. Cell* 19: 2363-2372.
5. Frank DJ, Hopmann R, Lenartowska M, and Miller KG. 2006. Capping protein and the Arp2/3 complex regulate non-bundle actin filament assembly to indirectly control actin bundle positioning during *Drosophila melanogaster* bristle development. *Mol. Biol. Cell* 17: 3930-3939.
6. Frank DJ*, Martin SR*, Gruender BNT, Lee YR, Simonette RA, Bayley PM, Miller KG, and Beckingham KM. 2006. Androcam is a tissue-specific light chain for myosin VI in the *Drosophila* testis. *J. Biol. Chem.* 281: 24728-24736.
7. Frank DJ, Noguchi T, and Miller KG. 2004. Myosin VI: a structural role in actin organization important for protein and organelle localization and trafficking. *Curr. Opin. Cell Biol.* 16: 189-194.
8. Frank DJ, Edgar BA, and Roth MB. 2002. The *Drosophila melanogaster* gene *brain tumor* negatively regulates cell growth and ribosomal RNA synthesis. *Development* 129: 399-407.
9. Frank DJ and Roth MB. 1998. *ncl-1* is required for the regulation of cell size and ribosomal RNA synthesis in *C. elegans*. *J. Cell Biol.* 140: 1321-1329.
10. Frank DJ, Tyree CM, George CP, and Kadonaga JT. 1995. Structure and function of the small subunit of TFIIF (RAP30) from *Drosophila melanogaster*. *J. Biol. Chem.* 270: 6292-6297.

* Equal Contributions

Other Publications

1. Frank DJ. 2018. How to Write a Research Manuscript. *Current Protocols Essential Laboratory Techniques*, 16, e20. doi: 10.1002/cpet.20

2. Fisher BA, Miller KG, Buhro WE, Frank DJ, and Frey RF. 2012. Collaborating with faculty to design active learning with flexible technology. *To Improve the Academy: Resources for Faculty, Instructional, and Organizational Development*, p. 329.
3. Frank DJ. 2009. How to Write a Research Manuscript. In S.R. Gallagher and E.A. Wiley (Eds.), *Current Protocols Essential Laboratory Techniques* A.5C.1-A.5C.18. Published online December 2009 in Wiley Interscience (www.interscience.wiley.com). DOI: 10.1002/9780470089941.eta05cs02.