CURRICULUM VITAE

NAME	POSITION TITLE
Adam Frost	**Herbert Boyer Junior Faculty Endowed Chair** **Assistant Professor**

EDUCATION & TRAINING: List in reverse chronological order each degree program, postdoctoral research experience, medical training experience, fellowship experience, and other training experience. Include month/year started and completed, the degree, the institution and location, the research mentor(s), if appropriate, and your field of study.

START MONTH/ YEAR	END MONTH/Y EAR	DEGREE *(if applicable)*	INSTITUTION AND LOCATION	TRAINING MENTOR	SCIENTIFIC DISCIPLINE
01/2009	06/2011	Post-doctoral	University of California, San Francisco, San Francisco CA	Jonathan S. Weissman	Genetics, Systems Biology
09/2000	01/2009	MD / PhD	Yale University, New Haven CT	Vinzenz M. Unger & Pietro De Camilli	Structural Biology Cell Biology
09/1995	05/2000	BS	Brigham Young University, Provo UT	David M. Busath	Biophysics

PROFESSIONAL POSITIONS: In reverse chronological order, list positions held since completing education and other training experiences. The last position will be your first post-training professional position entered in the Eligibility Section.

START MONTH/ YEAR	END MONTH /YEAR	POSITION TITLE	DEPARTMENT	INSTITUTION AND LOCATION
09/2014	Present	Assistant Professor	Biochemistry & Biophysics	University of California, San Francisco, San Francisco CA
07/2011	09/2014	Assistant Professor	Biochemistry	University of Utah, Salt Lake City UT

Significant Professional Activities Include advisory panels, editorial boards, consulting, honors, awards, etc.

Honors and Awards

2015 Herbert Boyer Junior Faculty Endowed Chair
2013 NIH Director's New Innovator Award
2013 Searle Scholars Award
2009 Howard Hughes Medical Institute Fellow of the Life Sciences Research Foundation
2009 Yale University School of Medicine Dissertation Award & Farr Scholarship Lecture
2006 Epilepsy Foundation Pre-Doctoral Research Training Fellowship
2006 Invited Student Delegate to the 45th Annual International Academy of Achievement
2004 The Milton C. Winternitz Prize in Pathology, Yale School of Medicine
2000 NIH/NIGMS, Medical Scientist Training Program Grant GM-07205
2000 Cum laude in Honors Chemistry and Biochemistry, Brigham Young University
1999 Barry M. Goldwater Scholarship for Math, Science and Engineering

Reviewer Experience
Reviewer for eLife, Science, Nature Press Group: Nature, Nature Cell Biology, Nature Communications, Nature Structural and Molecular Biology, European Molecular Biology Organization (EMBO), Cell Press: Developmental Cell, Cell Reports, Biophysical Journal, Current Biology, Journal of Cell Biology, Journal of Molecular Biology, Proceedings of the National Academy of Sciences (PNAS), Current Opinion in Structural Biology, Reviewer for Biochemistry, ACS

University Community Activities
University of California, San Francisco
2015 - Present Summer Research Training Program (SRTP) Selection and Placement Committee

University of Utah Health Sciences Level
2012 - 2014 Faculty Member, Core Research Facilities, Cell Imaging/Fluorescence Microscopy Facility, Oversight Committee
2012 - 2014 Faculty Member, Research Microscopy Facility, Center for Advanced Microscopy, Oversight Committee
2012 - 2014 Faculty Chair, Core Research Facilities, Electron Microscopy Core Facility, Oversight Committee

University of Utah Programs, Centers & Institutes
2013 - 2014 Chair, Biological Chemistry Graduate Program, Admissions committee
2011 - 2013 Member, Biological Chemistry Graduate Program, Admissions committee

Peer-Reviewed Publications

Primary Articles

1. Shen, S.S., Park, P., Qin, Y., Li, X., Parsawar, P., Larson, M.H., Cox, J., Cheng, Y. Lambowitz, A.L., Weissman, J.S.*, Brandman, J.*, **Frost, A.*** (2015) Rqc2p and 60S ribosomal subunits mediate mRNA-independent elongation of nascent chains. **Science** 347(6217), 75-78. *Co-corresponding authors. PMCID: PMC4451101

2. Koirala S, Guo Q, Kalia R, Bui HT, Eckert DM, **Frost A***, Shaw JM*. (2013). Interchangeable adaptors regulate mitochondrial dynamin assembly for membrane scission. ***Proc Natl Acad Sci USA***, *110*(15), E1342-51. *Co-corresponding authors. PMCID: PMC3625255

3. Brandman O, Stewart-Ornstein J, Wong D, Larson A, Williams CC, Li GW, Zhou S, King D, Shen PS, Weibezahn J, Dunn JG, Rouskin S, Inada T, **Frost A***, Weissman JS.* (2012). A ribosome-bound quality control complex triggers degradation of nascent peptides and signals translation stress. ***Cell***, *151*(5), 1042-54. *Co-corresponding authors. PMCID: PMC3534965

4. **Frost A***, Elgort MG, Brandman O, Ives C, Collins SR, Miller-Vedam L, Weibezahn J, Hein MY, Poser I, Mann M, Hyman AA, Weissman JS. (2012). Functional repurposing revealed by comparing S. pombe and S. cerevisiae genetic interactions. ***Cell***, *149*(6), 1339-52. *Corresponding author. PMCID: PMC3613983

5. Mim C, Cui H, Gawronski-Salerno JA, **Frost A**, Lyman E, Voth GA, Unger VM. (2012). Structural basis of membrane bending by the N-BAR protein endophilin. ***Cell***, *149*(1), 137-45. PMCID: PMC3319357.

6. Guerrier S, Coutinho-Budd J, Sassa T, Gresset A, Jordan NV, Chen K, Jin WL, **Frost A**, Polleux F. (2009). The F-BAR domain of srGAP2 induces membrane protrusions required for neuronal migration and morphogenesis. ***Cell***, *138*(5), 990-1004. PMCID: PMC2797480

7. **Frost A**, Perera R, Roux A, Spasov K, Destaing O, Egelman EH, De Camilli P, Unger VM. (2008). Structural basis of membrane invagination by F-BAR domains. ***Cell***, *132*(5), 807-17. PMCID: PMC2384079

8. Roux A, Uyhazi K, **Frost A**, De Camilli P. (2006). GTP-dependent twisting of dynamin implicates constriction and tension in membrane fission. ***Nature***, *441*(7092), 528-31. PMID: 16648839

9. Lax I, Wong A, Lamothe B, Lee A, **Frost A**, Hawes J, Schlessinger J. (2002). The docking protein FRS2alpha controls a MAP kinase-mediated negative feedback mechanism for signaling by FGF receptors. ***Mol Cell***, *10*(4), 709-19. PMID: 12419216

10. *Cole CD, ***Frost AS**, Thompson N, Cotten M, Cross TA, Busath DD. (2002). Noncontact dipole effects on channel permeation. VI. 5F- and 6F-Trp gramicidin channel currents. ***Biophys J***, *83*(4), 1974-86. *Authors contributed equally to this work. PMCID: PMC1302287

11. Jackson ME, **Frost AS**, Moghaddam B. (2001). Stimulation of prefrontal cortex at physiologically relevant frequencies inhibits dopamine release in the nucleus accumbens. ***J Neurochem***, *78*(4), 920. PMID: 11520912

Review Articles

1. **Frost A**. (2011). Membrane trafficking: decoding vesicle identity with contrasting chemistries. ***Curr Biol***, *21*(19), R811-3. PMID: 21996503

2. **Frost A**, Unger VM, De Camilli P. (2009). The BAR domain superfamily: membrane-molding macromolecules. ***Cell***, 137(2), 191-6. PMID: 19379681

3. **Frost A**, De Camilli P, Unger VM. (2007). F-BAR proteins join the BAR family fold. ***Structure***, 15(7), 751-3. PMID: 17637334

Book Chapters

1. **Frost A**, Unger VM, De Camilli P. (2009). Boomerangs, Bananas and Blimps: Structure and Function of F-BAR Domains in the Context of the BAR Domain Superfamily. http://www.ncbi.nlm.nih.gov/bookshelf/br.fcgi?book=eurekah∂=ch3985. In *The Pombe Cdc15 Homology Proteins* (Pontus Aspenström). Landes Biosciences.

Active Grants

1) Structural and Functional Characterization of the Ribosome Quality Control Complex
   13SSP218
   PI: Adam Frost
   Searle Scholars Program
   07/01/13 – 06/30/16

2) Toward Atomic Resolution of Membranes and Membrane-Associated Machines
   DP2GM110772
   PI: Adam Frost
   NIH Directors New Innovator Program
   10/01/13 - 06/30/18

3) Structural and Functional Characterization of the srGAP Family of Proteins
   BSF2013310
   PIs: Adam Frost / Yarden Opatowsky
   BSF United States – Israel Binational Science Foundation

07/01/14 – 06/30/17

4) Structure and Function of the Exocyst Complex
2-R01-GM068803-10
PI: Mary Munson / Co-PI: Adam Frost
NIH/NIGMS
WA00228620/RFS2015073 Subaward (Frost)
09/01/14 - 06/30/18

5) New Concepts for Understanding and Treating Neurodegenerative Disease
New Frontier Research Award 2013846
PI: Adam Frost
Sandler Foundation Program for Breakthrough Biomedical Research
07/07/2015 – 06/30/16