



## Jessica B. Sarthi

Program Manager - Stanford Diabetes Research Center, Department of Developmental Biology

### Bio

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#### BIO

Molecular and Cellular Biologist (Ph.D.) with over 10 years of scientific research experience. Accomplished in developing, optimizing, validating and implementing new ideas and technology. Experience in managing and coordinating collaborative teams comprised of scientists and research technicians working to advance scientific knowledge. Technical experience in precision medicine diagnostics, cancer biology, neurobiology and epigenetics as well as in various molecular, biochemical and cell biology techniques.

#### HONORS AND AWARDS

- AITF/Eyes High Postdoctoral Fellowship, AITF/University of Calgary (Oct 2013)
- Alberta Cancer Foundation Postdoctoral Fellowship, Alberta Cancer Foundation (July 2015)
- Sanofi BioGenius Mentorship Award - Alberta, Sanofi (April 2016)

#### EDUCATION AND CERTIFICATIONS

- Postdoctoral Fellow, University of Calgary , Chromatin organization and transcriptional regulation in cancer
- PhD, Drexel University , Biological Sciences (Neurobiology and Epigenetics) (2013)
- M.Sc., University of Mumbai , Life Sciences (Biological Macromolecules) (2005)

### Publications

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#### PUBLICATIONS

- **CFTR-Independent Prostaglandin E2-Stimulated Chloride Secretion in Human Airway.** *American journal of physiology. Lung cellular and molecular physiology*  
Abazari, S. M., Masarweh, G., Gammons, J., Sarthi, J. B., Illek, B., Sellers, Z. M.  
2025
- **DRA involvement in linacotide stimulated bicarbonate secretion during loss of CFTR function.** *JCI insight*  
Sarthi, J. B., Trumbull, A. M., Abazari, S. M., van Unen, V., Chan, J. E., Jiang, Y., Gammons, J., Anderson, M. O., Cil, O., Kuo, C. J., Sellers, Z. M.  
2024
- **IRBIT as a Regulator of Bicarbonate Transport in the Small Intestine.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*  
Sarthi, J. B., van Unen, V., Chan, J. E., Abazari, S., Trumbull, A., Guh-Siesel, A., Kuo, C. J., Sellers, Z. M.  
2022; 36 Suppl 1
- **Restoring Tip60 HAT/HDAC2 Balance in the Neurodegenerative Brain Relieves Epigenetic Transcriptional Repression and Reinstates Cognition** *JOURNAL OF NEUROSCIENCE*  
Panikker, P., Xu, S., Zhang, H., Sarthi, J., Beaver, M., Sheth, A., Akhter, S., Elefant, F.

2018; 38 (19): 4569–83

- **Smc5/6 is a telomeric complex that regulates Sir4 binding and TPE**  
Moradi-Fard, S., Sarthi, J., Tittel-Elmer, M., Lalonde, M., Cusanelli, E., Chartrand, P., Cobb, J. A.  
CANADIAN SCIENCE PUBLISHING, NRC RESEARCH PRESS.2017: 179–80
- **Smc5/6 Is a Telomere-Associated Complex that Regulates Sir4 Binding and TPE** *PLOS GENETICS*  
Moradi-Fard, S., Sarthi, J., Tittel-Elmer, M., Lalonde, M., Cusanelli, E., Chartrand, P., Cobb, J. A.  
2016; 12 (8): e1006268
- **Epigenetic Control of Learning and Memory in Drosophila by Tip60 HAT Action** *GENETICS*  
Xu, S., Wilf, R., Menon, T., Panikker, P., Sarthi, J., Elefant, F.  
2014; 198 (4): 1571-+
- **Increasing Tip60 HAT Levels Rescues Axonal Transport Defects and Associated Behavioral Phenotypes in a Drosophila Alzheimer's Disease Model** *JOURNAL OF NEUROSCIENCE*  
Johnson, A. A., Sarthi, J., Pirooznia, S. K., Reube, W., Elefant, F.  
2013; 33 (17): 7535–47
- **Tip60 HAT Activity Mediates APP Induced Lethality and Apoptotic Cell Death in the CNS of a Drosophila Alzheimer's Disease Model** *PLOS ONE*  
Pirooznia, S. K., Sarthi, J., Johnson, A. A., Toth, M. S., Chiu, K., Koduri, S., Elefant, F.  
2012; 7 (7): e41776
- **dTip60 HAT Activity Controls Synaptic Bouton Expansion at the Drosophila Neuromuscular Junction** *PLOS ONE*  
Sarthi, J., Elefant, F.  
2011; 6 (10): e26202
- **Microarray Analysis Uncovers a Role for Tip60 in Nervous System Function and General Metabolism** *PLOS ONE*  
Lorbeck, M., Pirooznia, K., Sarthi, J., Zhu, X., Elefant, F.  
2011; 6 (4): e18412