Stanford

Amit Joshi

Postdoctoral Research Fellow, Chemical and Systems Biology

Bio

HONORS AND AWARDS

- DAAD Travel fellowship, Cyceron, University of Caen, Caen, France (2013)
- Travel Award - ISTH 2013, University of Giessen (2013)
- DAAD Travel fellowship, Theodor Kocher Institute, Bern, Switzerland (2013)
- DAAD STIBET teaching assistantship, Courses in Bioinformatics - University of Giessen (2010-2013)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Justus-Liebig-Universität Gießen , Biochemistry, Neuroscience (2014)
- Master of Science, University of Abertay Dundee , Biotechnology (2006)
- Bachelor of Science, University of Pune , Microbiology, Chemistry, Zoology (2005)

STANFORD ADVISORS

- Daria Mochly-Rosen, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
  Haileselassie, B., Mukherjee, R., Joshi, A. U., Napier, B. A., Massis, L. M., Ostberg, N., Queliconi, B. B., Monack, D., Bernstein, D., Mochly-Rosen, D.
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- **Proteasome-Dependent Regulation of Distinct Metabolic States During Long-Term Culture of Human iPSC-Derived Cardiomyocytes.** *Circulation research*
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- **Drp1/Fis1 interaction mediates mitochondrial dysfunction in septic cardiomyopathy.** *Journal of molecular and cellular cardiology*
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- **Macrophage de novo NAD+ synthesis specifies immune function in aging and inflammation.** *Nature immunology*
  Minhas, P. S., Liu, L., Moon, P. K., Joshi, A. U., Dove, C., Mhatre, S., Contrepois, K., Wang, Q., Lee, B. A., Coronado, M., Bernstein, D., Snyder, M. P., Migaud, et al
  2018

- **Mortal engines: Mitochondrial bioenergetics and dysfunction in neurodegenerative diseases.** *Pharmacological research*
  Joshi, A. U., Mochly-Rosen, D.
  2018

- **Drp1/Fis1-mediated mitochondrial fragmentation leads to lysosomal dysfunction in cardiac models of Huntington's disease.** *Journal of molecular and cellular cardiology*
  Joshi, A. U., Ebert, A. E., Haileselassie, B., Mochly-Rosen, D.
  2018; 127: 125–33
- **Inhibition of Drp1/Fis1 interaction slows progression of amyotrophic lateral sclerosis.** *EMBO molecular medicine*
  Joshi, A. U., Saw, N. L., Vogel, H., Cunnigham, A. D., Shamloo, M., Mochly-Rosen, D.
  2018
- **Drp1/Fis1 interaction mediates mitochondrial dysfunction, bioenergetic failure and cognitive decline in Alzheimer's disease.** *Oncotarget*
  Joshi, A. U., Saw, N. L., Shamloo, M., Mochly-Rosen, D.
  2018; 9 (5): 6128–43
- **The Role of Mitochondrial Aldehyde Dehydrogenase 2 (ALDH2) in Neuropathology and Neurodegeneration.** *Acta neurologica Taiwanica*
  Chen, C., Joshi, A. U., Mochly-Rosen, D.
  2016; 25(4): 111-123
- **Potential biomarkers to follow the progression and treatment response of Huntington's disease.** *journal of experimental medicine*
  Disatnik, M., Joshi, A. U., Saw, N. L., Shamloo, M., Leavitt, B. R., Qi, X., Mochly-Rosen, D.
  2016
- **The entangled ER-mitochondrial axis as a potential therapeutic strategy in neurodegeneration: A tangled duo unchained.** *Cell calcium*
  Joshi, A. U., Kornfeld, O. S., Mochly-Rosen, D.
  2016; 60 (3): 218-234
- **Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) Protein-Protein Interaction Inhibitor Reveals a Non-catalytic Role for GAPDH Oligomerization in Cell Death** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Qvit, N., Joshi, A. U., Cunningham, A. D., Ferreira, J. C., Mochly-Rosen, D.
  2016; 291 (26): 13608-13621
- **VCP recruitment to mitochondria causes mitophagy impairment and neurodegeneration in models of Huntington's disease.** *Nature communications*
  Guo, X., Sun, X., Hu, D., Wang, Y., Fujioka, H., Vyas, R., Chakrapani, S., Joshi, A. U., Luo, Y., Mochly-Rosen, D., Qi, X.
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- **Deficiency of Factor VII activating protease alters the outcome of ischemic stroke in mice** *EUROPEAN JOURNAL OF NEUROSCIENCE*
  Joshi, A. U., Orset, C., Engelhardt, B., Baumgart-Vogt, E., Gerriets, T., Vivien, D., Kanse, S. M.
  2015; 41 (7): 963-973
- **Plasma factor VII-activating protease antigen levels and activity are increased in ischemic stroke.** *Journal of thrombosis and haemostasis : JTH*
  Hanson, E., Kanse, S. M., Joshi, A., Jood, K., Nilsson, S., Blomstrand, C., Jern, C.
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- **Murine aldo-keto reductase family 1 subfamily B: identification of AKR1B8 as an ortholog of human AKR1B10.** *Biological chemistry*
  Joshi, A., Rajput, S., Wang, C., Ma, J., Cao, D.
  2010; 391 (12): 1371–78
- **TGF-beta signaling, tumor microenvironment and tumor progression: the butterfly effect.** *Frontiers in bioscience (Landmark edition)*
  Joshi, A., Cao, D.
  2010; 15: 180–94