Stanford

Shravani Mukherjee

Postdoctoral Research Fellow, Ophthalmology

Bio

HONORS AND AWARDS

- Senior Research Fellowship, Council of Scientific and Industrial Research (CSIR), India (2014-2016)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Academy of Scientific & Innovative Research (2016)
- PhD, Academy of Scientific & Innovative Research (AcSIR), Institute of Genomics & Integrative Biology (CSIR-IGIB), New Delhi, India , Biological Sciences: "Physiological Determinants in Mesenchymal Stem Cell mediated Intercellular Mitochondrial Transfer" (2016)
- MSc., Presidency College, University of Calcutta, India , Molecular Biology & Genetics (2009)
- BSc., Serampore College, University of Calcutta, India , Zoology (Hons). (2007)

STANFORD ADVISORS

- Albert Wu, Postdoctoral Research Mentor
- Albert Wu, Postdoctoral Faculty Sponsor

LINKS

- Google Scholar Profile: https://scholar.google.co.in/citations?hl=en&user=a2PB2awAAAAJ&view_op=list_works&authuser=1&sortby=pubdate
- Researchgate Profile: https://www.researchgate.net/profile/Shravani_Mukherjee
- Bioprotocol.org Profile: http://www.bio-protocol.org/a.aspx?id=2406
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Publications

PUBLICATIONS

- **Transient non-integrative expression of nuclear reprogramming factors promotes multifaceted amelioration of aging in human cells.** *Nature communications*
  Sarkar, T. J., Quarta, M., Mukherjee, S., Colville, A., Paine, P., Doan, L., Tran, C. M., Chu, C. R., Horvath, S., Qi, L. S., Bhutani, N., Rando, T. A., Sebastiano, et al
  2020; 11 (1): 1545
- **Single-cell mass cytometry reveals cross-talk between inflammation-dampening and inflammation-amplifying cells in osteoarthritic cartilage** *Science Advances*
  Grandi, F. ., Baskar, R., Smeriglio, P., Murkherjee, S., Indelli, P., F. Amanatullah, D., Goodman, S., Chu, C., Bendall , S., Bhutani, N.
  2020; 6 (11)
- **Transient non-integrative nuclear reprogramming promotes multifaceted reversal of aging in human cells** *bioRxiv*
  Sarkar, T. J., Quarta, M., Mukherjee, S., Colville, A., Paine, P., Doan, L., M. Tran, C., R. Chu, C., Horvath, S., Bhutani, N., A. Rando, T., Sebastiano, V.
  2019

- **Regulation of mitochondrial transport in mesenchymal stromal cells** *The Biology and Therapeutic Application of Mesenchymal Cells - Set*
  Mukherjee, S., Bhatraju, N. K., Ahmad, T., Agrawal, A.
  edited by Atkinson, K.
  Wiley-Blackwell.2017: 104–113

- **Assessing Mitochondrial Transport via Cytoplasmic Nanotubular Bridges in Cells** *Bio-protocol*
  Mukherjee, S., Ahmad, T., Agrawal, A., et al
  2015; 5 (15)

- **Miro1 regulates intercellular mitochondrial transport & enhances mesenchymal stem cell rescue efficacy** *EMBO JOURNAL*
  Ahmad, T., Mukherjee, S., Pattnaik, B., Kumar, M., Singh, S., Kumar, M., Rehman, R., Tiwari, B. K., Jha, K. A., Barhanpurkar, A. P., Wani, M. R., Roy, S. S., Mabalirajan, et al
  2014; 33 (9): 994-1010

- **Computational classification of mitochondrial shapes reflects stress and redox state** *CELL DEATH & DISEASE*
  Ahmad, T., Aggarwal, K., Pattnaik, B., Mukherjee, S., Sethi, T., Tiwari, B. K., Kumar, M., Micheal, A., Mabalirajan, U., GHOSH, B., Roy, S. S., Agrawal, A.
  2013; 4

PRESENTATIONS

- Repair, Rejuvenation and Reprogramming of Ocular Cells for Improved Vision - Stanford Bio-X, Stanford School of Medicine (February 6, 2019)
- Regenerative approaches to treat ocular diseases and improve vision - Stem Cell Club, Stanford Institute for Stem Cell Biology and Regenerative Medicine (November 27, 2018)
- Stem Cell Strategies for Corneal Regeneration to Treat Impaired Vision - Stanford Bio-X, Stanford University (August 22, 2018)
- CD24 Regulates Multiple Catabolic And Inflammatory Gene Expression In Osteoarthritic Chondrocytes - Orthopedic Research Society ORS 2018 Annual Meet (March 10, 2018 - March 13, 2018)
- Juvenile cartilage factors to modulate joint inflammation - Inflammation, Aging and Chronic Disease Conference (11/27/2017 - 11/28/2017)
- Effects of Aging on MSC mediated Inter-Cellular Mitochondrial Transfer & Cellular Repair Function - International Society for Stem Cell Research (ISSCR) (6/22/2016 - 6/25/2016)
- Miro1 regulates intercellular mitochondrial transport and enhances Stem Cell rescue efficiency - International Conference on Stem Cells and Cancer, 2013 (10/18/2013 - 10/22/2013)
- Miro1 dependent movement of mitochondria from mesenchymal stem cells to injured epithelial cells - International Conference on Stem Cells and Cancer, 2012 (10/27/2012 - 10/30/2012)
- Miro1 dependent movement of mitochondria from mesenchymal stem cells to injured epithelial cells - InStem, National Centre for Biological Sciences, Conference 2013 (3/10/2013 - 10/10/2013)