Stanford

Dhriti Nagar

Postdoctoral Scholar, Neonatal and Developmental Medicine

Bio

BIO

Premature birth is a leading cause of developmental and neuropsychiatric disorders in children. One of the factors causing these defects is lowered levels of available oxygen (hypoxia) in the newborn due to immature lungs. My research focuses on understanding the cellular and molecular mechanisms underlying hypoxia-induced developmental disorders of the nervous system due to preterm birth.

PROGRAM AFFILIATIONS

- SPARK at Stanford

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Indian Institute of Science Educ&Research Pune (2021)
- Master of Science, Indian Institute of Science Educ&Research Pune (2021)
- Bachelor of Science, University Of Delhi (2014)
- PhD, Indian Institute of Science Education and Research (IISER), Pune, India , Developmental Neuroscience (2021)

STANFORD ADVISORS

- Anca Hrastinski, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Anca Hrastinski, NeoPasca Lab (3/10/2022)

Publications

PUBLICATIONS

- **Synthesis of Phosphorodiamidate Morpholino Oligonucleotides Using Trityl and Fmoc Chemistry in an Automated Oligo Synthesizer** *JOURNAL OF ORGANIC CHEMISTRY*
  Kundu, J., Ghosh, A., Ghosh, U., Das, A., Pattanayak, S., Ghose, A., Sinha, S., Nagar, D.
  2022; 87 (15): 9466-9478
- **A Tale of Two Waves: Diverse Genomic and Transmission Landscapes Over 15 Months of the COVID-19 Pandemic in Pune, India**
  Niveditha, D., et al
  MedRxiv.
  2022

- **Antagonistic Activities of Fmn2 and ADF Regulate Axonal F-Actin Patch Dynamics and the Initiation of Collateral Branching** *Journal of neuroscience*
  Kundu, T., Das, S. S., Sewatkar, . K., Kumar, D. S., Nagar, D., Ghose, A.
  2022
- **Coupling of dynamic microtubules to F-actin by Fmn2 regulates chemotaxis of neuronal growth cones** *JOURNAL OF CELL SCIENCE*
  Kundu, T., Dutta, P., Nagar, D., Maiti, S., Ghose, A.
  2021; 134 (13)
- **The Formin Fmn2b Is Required for the Development of an Excitatory Interneuron Module in the Zebrafish Acoustic Startle Circuit** *ENEURO*
  Nagar, D., James, T. K., Mishra, R., Guha, S., Burgess, S. M., Ghose, A.
  2021; 8 (4)
- **Development of motor neurons and motor activity in zebrafish requires F-actin nucleation by Fmn2b**
  Nagar, D., et al
  BioRxiv.
  2021
- **Clinical characteristics of AY. 4 infections are similar to B. 1.617. 2 infections: a preliminary study** *Indian Journal of Basic and Applied Medical Research*
  Das, R., et al
  2021