Narendradev Nikhil Dev

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SUMMARY

Third-year PhD student at IISER Thiruvananthapuram. BS-MS Dual Degree from IISER Thiruvananthapuram with Biology as Major and Physics as minor degree.

PUBLICATIONS

4) Ravindran, R., Velikkakath, A. K. G., **Narendradev, N. D.**, Chandrasekharan, A., Santhoshkumar, T. R., & Srinivasula, S. M. (2020). Endosomes facilitate mitochondrial clearance by enhancing Mfn2 degradation and subsequent Parkin recruitment. **BioRxiv**, 2020.02.19.955880. https://doi.org/10.1101/2020.02.19.955880

3) Nair, S. V., **Narendradev, N. D.**, Nambiar, R. P., Kumar, R., & Srinivasula, S. M. (2020). Naturally occurring and tumor-Associated variants of RNF167 promote lysosomal exocytosis and plasma membrane resealing. **Journal of Cell Science**, 133(11). https://doi.org/10.1242/jcs.239335

2) Bhattacharjee, D., **Narendradev, N. D.**, Gupta, S., Sau, S., Sarkar, R., Biswas, A., Banerjee, A., Babu, D., Mehta, D., & Bhadra, A. (2017). Free-ranging dogs show age-related plasticity in their ability to follow human pointing. **PLOS ONE**, 12(7). https://doi.org/10.1371/journal.pone.0180643

1) Bhattacharjee, D., Dasgupta, S., Biswas, A., Deheria, J., Gupta, S., **Narendradev, N. D.**, Udell, M., & Bhadra, A. (2017). Practice makes perfect: familiarity of task determines success in solvable tasks for free-ranging dogs (Canis lupus familiaris). **Animal Cognition**, 20(4), 771–776. https://doi.org/10.1007/s10071-017-1097-3

RESEARCH EXPERTISE

Microscopy: Confocal Laser Scanning Microscopy (Live cell imaging and immunostaining), Atomic Force Microscopy, Transmission Electron Microscopy (Negative Staining), Scanning Electron Microscopy, Light microscopy and Fluorescence Microscopy.

Molecular Biology: Cloning, Site-Directed Mutagenesis, Sanger Sequencing, Plasmid Isolation, PCR, Overlap PCR, Nested PCR.

Spectroscopy: Cathepsin B assay, lysosomal activity measurement, Nucleic acid quantification by Nanodrop and protein quantification by absorbance reader.

Protein Biochemistry: SDS PAGE and Western blotting.

Software: Particle analysing, Lysosomal positioning and Perinuclear Index Analysis, Intensity analysis and Velocity Measurement using ImageJ/Fiji, Correlation analysis using Metamorph/LAS AF (Leica).

Other: Fluorescence-Activated Cell Sorting and Seahorse mito-stress analyser.

ACHIEVEMENTS

Advanced Biomolecular Mass Spectrometry Course |October 2020

Successfully completed online workshop organised by the Department of Biomolecular Mass Spectrometry and Proteomics, Department of Pharmaceutical Sciences and Department of Chemistry, Utrecht University, The Netherlands (1.5 Credit Course)

Poster presentation | February 2018

"Mitochondrial quality control pathways and Parkinson's disease" poster in 'Cellular Process in Homeostasis, Regeneration and Disease' conference

NUS Singapore summer Fellowship | Summer 2016

Under the guidance of Prof. Antónia Monteiro

IAS Fellowship | Summer, 2015

Summer project fellowship by Department of Science and Technology (DST) of the Government of India.

National Science Camp (Vijyoshi) Participation at IISc Banglore |Winter 2013

A program by Govt. of India for selected undergraduate students of Science to meet world science leaders

INSPIRE-SHE Fellow | 2013-2018

It was awarded for being in the top 0.1% in the state in the 12th Grade Examinations for pursuing higher studies in pure sciences.

PROJECT EXPERIENCE

PhD Thesis | IISER TVM (2018-2023) | 5 Years

Topic: 'Regulation of mitochondrial homeostasis in mammalian cells'

Project Guide: Prof S Murty Srinivasula
Fellowship: Institute Fellowship

Major Project | IISER TVM (2017-2018) | 10 Month

Topic: 'Molecular Mechanisms of E3 Ubiquitin ligase mediated protection against parkinsonian toxin paraquat'

Project Guide: Prof S Murty Srinivasula
Fellowship: INSPIRE-SHE Fellowship

Minor Project | IISER TVM (2017) | 4 Month

Topic: 'Atomic Force Microscopy and Confocal Laser Scanning Microscopy – Imaging in the Micro to Nanoscale'

Project Guide: Dr Joy Mitra
Fellowship: INSPIRE-SHE Fellowship

National University of Singapore (2016 June) | 52 Days

Topic: 'Search for putative olfactory receptors in Bicyclus anynana using pupal and adult brain NGS transcriptome data with special focus on the hexadecanal receptor'

Project Guide: Prof. Antónia Monteiro

Fellowship: NUS Singapore

IISER Pune (2016 May) | 14 Days

Topic: 'Behavioural Relevance of Olfactory Information Integration in Decision Making'

Project Guide: Dr Nixon M Abhraham

Fellowship: INSPIRE-SHE Fellowship

IISER Kolkata (2015) | 64 Days

Topic: 'Canine cognition: A study on Indian free-ranging dogs (Canis familiaris)'

Project Guide: Dr Anindita Bhadra

Fellowship: Indian Academy of Science (IAS) Fellowship

EDUCATIONAL QUALIFICATION SUMMARY

Completed Integrated BS-MS Dual Degree program at IISER Thiruvananthapuram (Biology Major, Physics Minor) with CGPA* 7.74/10.

GRE General Test	Quantitative Reasoning (161/170) Verbal Reasoning (154/170) Analytical Writing (3.5/6)	TOEFL	Reading (28/30)	Listening (27/30)
			Speaking (22/30)	Writing (21/30)
CSIR UGC NET	All India Rank 38	GATE	All India Rank 1868/14140	

Higher Secondary	M.V.H.S.S Ariyallur, Malappuram	97.75 % [PCMB**- 98.88%]	(Year 2013)
* CGPA – Cumulative Grade Point Average		** Physics, Chemistry, Maths and Biology	

Other

- Volunteer at institute COVID-19 testing centre 2020 march to 2021 January