

Shilpa Gopan

Graduate Student (PhD)
CSIR Senior Research Fellow

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Department of Biology
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EDUCATION

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|--------------|--|
| 2018-present | Indian Institute of Science Education and Research, Pune, India
Ph.D, Biology; (CSIR Research Fellowship) |
| 2018 | Indian Institute of Science Education and Research, Bhopal, India
BS-MS Dual Degree, Major in Biology, 8.88/10.00 |
| 2013 | Govt. Girls Higher Secondary School Cottonhill, Thiruvananthapuram, India
Higher Secondary Education, 97.5% ; (INSPIRE Scholarship; Govt. of India) |

AWARDS AND ACHIEVEMENTS

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| 2018 | Qualified Graduate Aptitude Test in Engineering (GATE) , Life Sciences |
| 2017 | Qualified Joint Graduate Entrance Examination for Biology and Interdisciplinary Life Sciences , Life Science |
| 2017 | Qualified National Eligibility Test- Junior Research Fellowship , Life Sciences |
| 2013 | Awarded INSPIRE Scholarship; Government of India (97.5%; top 1% in 0.5 million) |

PUBLICATIONS

1. Jose, G.P., **Gopan, S.**, Bhattacharyya, S., Pucadyil, T.J.* 2020. A facile, sensitive and quantitative membrane-binding assay for proteins. *Traffic* 21:297-305. (*selected for cover*).
2. Tak, Y., Lal, S.S., **Gopan, S.**, Balakrishnan, M., Satheesh, S., Biswal, A.K., Verma, A.K., Cole, S.J., Brown, R.E., Hayward, R.E., Hines, J.K., Sahi, C.* 2020. Identification of subfunctionalized aggregate-remodeling J-domain proteins in *Arabidopsis thaliana*. (*bioRxiv*) doi: 10.1101/2020.10.14.340331.

KEY RESEARCH AND SOFTWARE SKILLS

- Hands on experience on preparation and handling of yeast, plant and mouse-tissue extracts
- Designing experimental strategies for biochemical characterization of proteins
- Proficient in chromatographic techniques used for the separation and purification of proteins from crude lysate
- Characterization of proteins by Mass spectrometry
- Skilled in preparation of small and large unilamellar vesicles
- Preparation of supported lipid bilayer and lipid nanotubes on glass surfaces
- Experience in molecular biology techniques: Cloning, Site-directed mutagenesis, Overlapping PCR, SDS-PAGE, Western Blot, Silver Staining

- Experience in basic mammalian cell culture
- Expertise in handling the instruments: FPLC, UV-Vis Spectrophotometer, Microplate Reader, Apotome fluorescence microscope, epifluorescence microscope
- Sample preparation for Scanning Electron Microscopy
- Working experience with FIJI imageJ, GraphPad, ChemDraw, Adobe Illustrator and Adobe Photoshop
- Experience in using softwares related to protein structure analysis; pymol, chimera, Swiss PDB viewer, SwissDock
- Familiar with writing scientific reports and manuscripts

RESEARCH CONFERENCES AND WORKSHOPS

- Jul 25-29, 2022 EMBO workshop, Birth and fission of cellular compartments
- Mar 8-9, 2022 Howard Hughes Medical Institute Virtual Science Meeting, Cellular and Organismal Physiology
- Dec 7-8, 2021 Howard Hughes Medical Institute Virtual Science Meeting, Molecular Biology of the Cell
- Sep 28-29, 2021 Howard Hughes Medical Institute Virtual Science Meeting, Cell and Developmental Biology
- Jan 16-18, 2020 International Conference on Autophagy and Lysosomes, IISc Bangalore
- Jan 3-5, 2018 Annual Biology Meeting (ABM), IISER Bhopal (Poster Presentation)
- Feb 2, 2014 Astronomy workshop, IISER Bhopal

TEACHING EXPERIENCE

- 2020 Introductory Biology III - Ecology and Evolution
- 2019 Introduction to Biomolecules
- 2019 Ecology and Evolution
- Held the responsibility of training different batches of approx 200 students each
- Set-up questions and evaluated students

POSITIONS OF RESPONSIBILITY

- 2020 Volunteer, 12th International Symposium on Cell Surface Macromolecules | IISER Pune
- 2020 Member, Magazine Design team | Astro Club | IISER Pune
- 2014-2015 Mess Representative | IISER Bhopal
- 2008-2010 Member, National Cadet Corps

REFERENCES

Dr. Thomas Pucadyil
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Indian Institute of Science Education and Research,
Dr. Homi Bhabha Road, Pashan, Pune 411008
Maharashtra, India

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Dr. Chandan Sahi (MS Thesis Advisor)
Associate Professor C-334, Dept. of Biology,
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