

DIRECTOR, NIPER - SAS Nagar

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Research Interest

- Eukaryotic and prokaryotic cell division, microtubule dynamics, mitosis, cancer chemotherapy, FtsZ assembly dynamics, and FtsZ targeted antibacterial drugs and biomolecular spectroscopy

Academic Background

- Ph. D. (1994), Bose Institute, Kolkata (Biochemistry)

Professional Experience

- 2021 July – : Director, NIPER S.A.S. Nagar
- 2011 June – 2021 July: Chair Professor, Department of Biosciences and Bioengineering, IIT Bombay
- 2008 March to 2011 May: Head, Biosciences and Bioengineering, IIT Bombay
- 2007- 2021 : Professor, Department of Bioscience and Bioengineering, IIT Bombay
- 2003- 2007: Associate Professor, School of Bioscience and Bioengineering, IIT Bombay
- 2000 – 2003: Assistant Professor, School of Bioscience and Bioengineering, IIT Bombay
- 1998 – 2000: Assistant Research Biologist, Department of Molecular, Cellular and Developmental Biology, University of California, Santa Barbara, USA.

Academy fellowships

- Fellow of The World Academy of Sciences (TWAS)
- Fellow of Indian National Science Academy
- Fellow of Indian Academy of Sciences
- Fellow of National Academy of Sciences, India

Awards

- Sun Pharma Research Award
- JC Bose National Fellowship, DST India
- TATA Innovation Fellowship – DBT India
- G. N. Ramachandran Gold Medal (CSIR INDIA)
- DAE-SRC outstanding research investigator award
- CDRI excellence in drug research
- S. C. Bhattacharya award excellence in basic sciences IIT Bombay
- National Biosciences Award, DBT, Govt of India
- Swarnajayanti Fellowship, DST, New Delhi
- P. S. Sharma Memorial Award, Society of Biological Chemists
- Member of the Guha Research Conference
- Fogarty International Research Award, National Institute of Health, USA (2001).

Editorial Board Member:

- BMC Molecular and Cell Biology
- Technology in Cancer Research & Treatment

Recent Publications

- Kumari, A., Shriwas, O., Sisodiya, S., Santra, M.K., Guchhait, S.K., Dash, R.,

& Panda, D. Microtubule-targeting agents impair kinesin 2-dependent nuclear transport of β -catenin: Evidence of inhibition of Wnt/ β -catenin signaling as an important antitumor mechanism of microtubule-targeting agents. **The FASEB Journal**, 2021, 35(4), e21539. DOI: 10.1096/fj.202002594R.

- Mundhara, N., Majumder, A., and Panda, D., Hyperthermia induced disruption of mechanical balance leads to G1 arrest and senescence in cells. **Biochemical Journal**, 2021, 478, 179-196.
- Battaje, R. R., Bhondwe, P., Dhaked, H. P. S., and Panda, D., Evidence of conformational switch in *Streptococcus pneumoniae* FtsZ during polymerization. **Protein Science** 2021, 30, 523-530.
- Poojari, R., Sawant, A. V., Kini, S., Srivastava, R., and Panda, D. Antihepatoma activity of multifunctional polymeric nanoparticles via inhibition of microtubules and tyrosine kinases. **Nanomedicine**, 2020, 15, 381-396.
- Rane, J. S., Kumari, A., and Panda, D. The acetyl mimicking mutation, K274Q in tau enhances the metal binding affinity of tau and reduces the ability of tau to protect DNA. **ACS Chemical Neuroscience**, 2020,11, 291-303.

Publications: 191 papers

h-index (Google Scholar) - **63**

i10-index (Google Scholar) - **152**

Patents: 3 American and 6 Indian Patents Granted