

Curriculum Vitae for Satyajit Mayor



Current Position:

Leverhulme International Professor
University of Warwick, UK
Director of the research programme on cell surface and cellular interfaces

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Date of Birth: 26 January 1963 (India)

Nationality: Indian

Education :

PhD.	Rockefeller University, NY, USA.	1991	Life Sciences
M.Sc.	IIT, Bombay, India (Five Year Integrated Programme)	1985	Chemistry

Details of employment:

Centre Director, NCBS-TIFR, March 2013- present.
Director, inSTEM March 2013- Jan 2019
Dean of Faculty, NCBS-TIFR April 2008-March 2013.
Senior Professor, January 2011-present
Professor February 2006 – 2011.
Associate Professor: February 2001 – 2006.
Reader (SE) [Assistant Professor]: September 1995—February 2001:
National Centre for Biological Sciences, Bangalore.
Faculty, Woods Hole Physiology Course, 2012, 2013
Lecturer, Woods Hole Microscopy Course, Woodshole, MA, USA, 1994.

Academic Distinctions and Honors

TWAS Fellow, 2019
HC Firodia Award for Excellence in Science, 2018
Chevalier de l'ordre national du mérite (National Order of Merit, France), 2016
Foreign Member, US National Academy of Science, 2015
Distinguished Alumnus of IIT Mumbai, 2013
Foreign Fellow, EMBO, 2013
Infosys Prize in Life Sciences, 2012
TWAS Prize in Biology, 2010
EMBO Global Lecturer, 2010
JC Bose Fellowship, DST, 2006-2011, (DST-SERB) 2012-2017
Indian Academy Fellow, 2006
Indian National Science Academy Fellow, 2004

Shanti Swaroop Bhatnagar Award, CSIR, 2003
Swarnajayanti Fellowship, Department of Science and Technology, 2003-2008
Mizutani Foundation for Glycoscience Award, April 2001
Wellcome Trust International Senior Research Fellow (Biomedical Research, India),
1999-2004
Helen Hays Whitney Post-Doctoral Fellowship (1992-1995)
The Rockefeller-Oxford Student Exchange Program Recipient (1988)
Lucille P. Markey Charitable Trust Graduate Fellowship (1986-1991)
Visiting Students Research Program Recipient (TIFR) (1984)

Editorial Board Member

Editorial Board, Philosophical Transactions B, 2019-present
Editorial Board, Scientific American, 2019- present
Editorial Board, Journal of Cell Biology, 2016-present
Editorial Board, Proc. Nat. Acad. Sci. (USA), 2017-present
Editor, Biochemical and Biophysical Research Communications 2014-2016
Editorial Board, Cell 2008-present
Editorial Board, Journal of Cell Science, 2011-present
Editorial Board, Integrative Biology, 2010-2014
Editorial Board, Traffic, 2005-2014
Editorial Board, Biochimica Biophysica Acta, 2008-present.
Editorial Board, The Biochemical Journal, 2011- present.
Editorial Board of Reviewers, Molecular Biology of the Cell, 2004-present

Recent Publications:

Iyer, K.S., Prabhakara, C., Mayor, S. and Rao, M., 2023. Cellular compartmentalisation and receptor promiscuity as a strategy for accurate and robust inference of position during morphogenesis. *Elife*, 12, p.e79257. [eLife 12:e79257](https://doi.org/10.7554/eLife.79257)

Saha, S., Das, A., Patra, C., Anilkumar, A. A., Sil, P., Mayor, S. and Rao, M. (2022). Active emulsions in living cell membranes driven by contractile stresses and transbilayer coupling. *PNAS (2022) 119 (30) e2123056119*.

Kalappurakkal, J. M. Anilkumar, A., A. Patra, C., van Zanten, T. S., Sheetz, M. S. Mayor. Acto-myosin driven functional nanoclusters of GPI-anchored proteins are generated by integrin receptor signaling. *Cell* 2019, 177(7):1738-1756.e23. [doi: 10.1016/j.cell.2019.04.037](https://doi.org/10.1016/j.cell.2019.04.037).

Thottacherry, J. J. Kosmalska, A. A., Elosegui-Artola, Alberto , Pradhan, S. Sharma, S., Singh, P.P., Guadamillas, M. C., Chaudhary, N., Vishwakarma, R., Trepate, X., del Pozo, M.A., Parton, R.G. Pullarkat, P. Roca-Cusachs, P. and Mayor, S. Mechanochemical feedback control of dynamin independent endocytosis modulates membrane tension in adherent cells. *Nat. Commun.* 2018, 9, 4217. [doi: 10.1038/s41467-018-06738-5](https://doi.org/10.1038/s41467-018-06738-5)

Köster DV, Husain K, Iljazi E, Bhat A, Bieling P, Mullins RD, Rao M, Mayor S. Actomyosin dynamics drive local membrane component organization in an in vitro active composite layer. *Proc Natl Acad Sci U S A.* 2016 Mar 22;113(12):E1645-54. [doi: 10.1073/pnas.1514030113](https://doi.org/10.1073/pnas.1514030113). Epub 2016 Feb 29.

Invited Lectures and Symposia (2016-2018)

- 1) International Congress of Cell Biology (ICCB) – 2018, Hyderabad,. 27-31 Jan 2018. Symposium Speaker : Dynamics and spatial organisation of GPI anchored proteins reveal an active actin membrane composite at the cells' edge
- 2) 3rd International Symposium on Mechanobiology (ISMB2017)" , MBI, Singapore. 11-14 Dec 2017. Plenary Lecture : "Acto myosin driven functional nano clusters of GPI-APs are generated by integrin receptor signaling"
- 3) EMBO|EMBL Symposium: Seeing is Believing - Imaging the Processes of Life, Hiedelberg. 4-6 Oct, 2017. "Mechanisms for the generation of active membrane domains in membranes of living cells."
- 4) University of Geneva. 2-3 Oct 2017. "Mechanism and functions of a CDC42 and ARF1-dependent Clathrin-independent endocytic pathway"
- 5) University of Geneva. 2-3 Oct 2017. Invited Universtiy Seminar: "Mechanisms for the generation of active membrane domains in membranes of living cells."
- 6) Indo-German Max Planck Center on Lipid Research , NCBS, Bangalore. 26-27 Sep, 2017. "Nano-organization of cellular membranes"
- 7) Invited Talk at Purdue University, Indianapolis. : "Building membrane domains at the surface of living cells triggered by signaling receptors"
- 8) HHMI Laboratory at Woodshole . 16 Jun -16 July, 2017. Active Phases of Membranes: form and function.
- 9) YIM 2017 - PDF Satellite Meet, Goa. 9 Feb, 2017. " Shifting geography and language of the Biological Sciences"
- 10) Wellcome Trust India Alliance external review Meeting, Delhi. 4-5 Jan, 2017 "Shifting geography and language of the Biological Sciences"
- 11) VV Modi Memorial Lecture, MSU, Baroda. 6 Jan, 2017. "Shifting geography and language of the Biological Sciences"
- 12) Invited Lecture, IFOM, Milan. 1-2 Dec, 2016 : "Clathrin and dynamin-independent endocytosis: molecular machinery and function in membrane tension regulation"
- 13) Symposium Talk International Society on Optics Within Life Sciences (OWLS) Organized by TIFR - March 2016. "Fluorescence Spectroscopy in the pursuit of living cell membrane structure"
- 14) Key Note Lecture at the Affiliates Meeting at Manipal University, Manipal – April 2016. "A New Fabric for the Biological Sciences in the 21st century: opportunities and challenges for the Indian Biologist"
- 15) Section Induction Talk at National Academy of Sciences - 153rd Annual Meeting in Washington, DC – April 2016. Compositional regulation at the local and cell-wide scale in membranes of living cells.
- 16) Invited Speaker, Gordon Research Conferences – June 2016 Signaling by Adhesion Receptors; Local Membrane Organization and Integrin Signalling- An Active Actin-Membrane Composite.
- 17) Symposium Talk in Heidelberg, 'Molecular Architecture and Cellular Functions of Lipid/Protein Assemblies. Transregio 83 Symposium. Title : Regulated organization and structure of living cell membranes.