Curriculum Vitae for Satyajit Mayor

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**Date of Birth: 26 January 1963 (India)**

Nationality: Indian

Education :

PhD. Rockefeller University, NY, USA. 1991 Life Sciences

M.Sc. I IT, Bombay, India 1985 Chemistry

 (Five Year Integrated Programme)

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)

Grants Received (as Principal Investigator, and major collaborator):

1. Margadarshi Fellowship, DBT-Wellcome Trust Alliance 2016-2021.
2. HFSP Grant Sept. 2012-2015; for ‘Nanoscale’ mechanics with M. Gracia Parajo (Spain), Diane Lidke (USA) and A. Cambi (Netherlands) as collaborators.
3. NIH-DST Brain Research Grant : with J. Miwa (USA) 2012-2014.
4. Centre for Excellence Grantee (as co-principal-investigator in a four member team on ‘Bioinformatics and in silico and in vivo’), DBT 2009-2014)
5. Nano-science initiative Grant for ‘Nanobiotechnology’; 2005-2010, Department of Science & Technology (DST), awarded to S. Mayor, G. Shivashankar, Y. Krishnan-Ghosh, K. Rao, K. VijayRaghavan.
6. HFSP Grant, Sept. 2005-2008. awarded to S. Mayor, T. Kurzchalia, Y. Hanun and H. Riezman, ‘Role of sphingolipids in raft formation’
7. Swanajayanti Fellowship Grant (DST), 2003-2008 awarded to S. Mayor.
8. Wellcome Trust Equipment Grant for setting up NLO Imaging facility at NCBS, 2000-2003, awarded to S. Mayor, U. Bhalla and J. Udgaokar.
9. Wellcome Trust Grant for International Senior Biomedical Research Fellow. June 1999-2004. awarded to S. Mayor, ‘Functional organization of GPI-anchored proteins’.
10. Mizutani Foundation for Glycoscience, April 2001-April 2002. ‘The structural basis for the sorting of GPI-achors’
11. HFSP Grant, Sept. 1996-1999. awarded to S. Mayor, T. Kurzchalia, and F. R. Maxfield, ‘Sorting of GPI-anchored proteins’.
12. Department of Biotechnology, June 1998-2001. awarded to S. Mayor and K. S. Krishnan, ‘Molecular mechanisms of endocytosis in metazoan cells’.

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, Biochemica Biophysica Acta, 2008-present.

Editorial Board, The Biochemical Journal, 2011- present.

Editorial Board of Reviewers, Molecular Biology of the Cell, 2004-present

Membership/Fellowship of Scientific and learned Academies/Societies

President , Asia Pacific Organization of Cell Biology (APOCB), 2014-2015

Invited Fellow, Royal Society of Chemistry, 2014

Fellow, EMBO, 2013

Fellow, Indian National Science Academy, 2004.

Fellow, Indian Academy of Sciences, 2001.

Member, International Affairs Committee, American Society for Cell Biology

(1997-2007, 2009-2013).

Member, Biophysical Society, 2002

Member, American Society of Cell Biology, 1994

Member, Indian Society for Cell Biology, 1999

Associate of the Third World Academy of Sciences, Trieste, 1998.

*Research Experience:* :

Co-PI at HHMI Summer Institute at Woods Hole, 2013-2017. An interdisciplinary collaborative research program centered around the biology and physics of phase segregation in the context of signaling.

Laboratory Head: till present

 National Centre for Biological Sciences, TIFR Centre, Bangalore, India.

 General Research Area: Molecular mechanisms in endocytosis in metazoan cells.

Post-Doctoral Training: May 1991– 1995;

 Department of Pathology, Columbia University College of Physicians and Surgeons, New York, NY. Topic: Endocytic traffic of membrane lipids and GPI-anchored proteins In the laboratory of Dr. Frederick. R. Maxfield (Dept. Pathology, Columbia University)

PhD Thesis, 1991, Rockefeller University, USA

 Thesis Title: Biosynthesis of glycosyl-phosphatidylinositol membrane protein anchors. Study of Trypanosoma brucei variant surface glycoprotein anchor.

 Thesis advisor : Dr. George A. M. Cross (Laboratory of Molecular Parasitology, Rockefeller University)

The Rockefeller-Oxford Student Exchange Program. Summer 1988

 University of Oxford, Oxford, UK. Topic: Structural characterization of glycoconjugates. with Drs. Michael A. J. Ferguson and Raymond A. Dwek (Dept. of Biochemistry, University of Oxford, Oxford, UK)

FEBS Practical/Lecture Course on Intracellular Protein Transport, June, 1987.

 Uppsala University, Uppsala, Sweden. Conducted by Dr. Erick Fries, (Uppsala University)

MSc Thesis, 1985, IIT Bombay, India

 Thesis Title: The molecular mechanism of melittin-induced membrane lysis

 Thesis advisor : Dr. Anil K. Lala (IIT, Bombay)

Visiting Students Research Program May-July 1984

 Tata Institute of Fundamental Research (TIFR), Bombay,

 Subject: Three dimensional conformations of biomolecules (small peptides) using two-dimensional Nuclear Magnetic Resonance Correlated Spectroscopy

 with Dr. G. Govil and Dr. R. V. Hosur (Chemical Physics Group, TIFR).

Post Doctoral Fellows Mentored:

Jahanvi Sowmya Chatty, 2017

Aanchal Chandra, 2015

Thomas van Zanten, 2014

Past

Mugdha Sathe, 2018-2019

Bini Ramachandran, 2014-2017

Marcus Taylor, 2012-2017

Darius Koester, 2011-2016

Gayatri Muthukrishnan, 2010-2015

Sudarkodi, 2013-2014

Vaishnavi Ananthnarayan, 2013-2014

Gagan Gupta, 2003-2007

RS Krishnan, 2001-2002

Manjula Kalia, 1999-2003

Morven Roberts, 1996-1998

Graduate Students Mentored

Current

Sarayu, B., 2017

Chandrima, P, 2015

Sankarshan, T., 2015

Abrar, AB, 2014

Chaitra P, 2013

Parijat S, 2012

Joseph Mathew, 2012

Past

Joseph Thottacherry, 2019

Mugdha Sathe, 2018

Anupama Ambika AnilKumar, 2016

Anup Parchure, 2016

Garima Singhal, 2007-resigned

Suvrajit Saha, 2016

Anupama HL, 2017

Riya Raghupathy, 2016

Subhasri Ghosh, 2012

Swetha MG, 2011

Debanjan Goswani, 2009

Sameera Bilgrami, 2009

Neha Vyas, 2008

Sudha Kumari, 2007

Rahul Chadda, 2007

V. Sriram, 2004

Pranav Sharma, 2004

Arjun Guha, 2003

Rajat Varma, 2004

Shefali Sabharanjak, 2001

Samit Chatterjee, 2002

MSc Students

Past

Akankshi Munjal, 2011

Gautam Dey, 2010

**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 2016Signaling 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.