

Fellows (w.e.f. 1st January, 2018)

1. **Hemalatha Balaram** (*b* 1956), PhD, Professor, Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru.

For her work revealing the fascinating crosstalk between purine metabolism and Krebs's cycle operative in the intra-erythrocyte stages of parasite that recycles fumarate to aspartic acid.

2. **Jitendra Kumar Bera** (*b* 1968), PhD, Professor, Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur.

For developing organometallic catalysts for the utilization of molecules to valuable chemicals exploiting bifunctional activation strategy.

3. **Shalabh Bhatnagar** (*b* 1968), PhD, Professor, Department of Computer Science and Automation, Indian Institute of Science, Bengaluru.

For his studies of reinforcement learning and simulation based optimization.

4. **Shinjini Bhatnagar** (*b* 1960), MBBS, PhD, Dean Clinical Research / Scientist H+, Translational Health Science and Technology Institute, Faridabad.

For leading an independent group that has established the role of Zinc as an adjunct treatment in serious bacterial infections and in severe pneumonia in children and for conducting successful clinical research towards the understanding of preterm birth.

5. **Debasis Chattopadhyay** (*b* 1967), PhD, Scientist VII, National Institute of Plant Genome Research, New Delhi.

For his important contributions in the field of plant genomics of tomato and chickpea specially the role of auxin transport and signaling in root growth and drought tolerance and for extensive work on plant virus interactions.

6. **Subhasish Dey** (*b* 1958), PhD, Professor, Department of Civil Engineering, Indian Institute of Technology, Kharagpur.

For his study on fluvial hydrodynamics and environmental fluid mechanics.

7. **Srubabati Goswami** (*b* 1966), PhD, Professor, Theoretical Physics Division, Physical Research Laboratory, Ahmedabad.

For her outstanding contributions in study of neutrino oscillation experiments and determination of the neutrino masses and mixing angles.

8. **Maneesha Shreedhar Inamdar** (*b* 1967), PhD, Professor, Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru.

For her studies on establishment of human embryonic stem cells and for discovery of novel genes involved in hematopoiesis.

9. **Ashish Kishore Lele** (*b* 1967), PhD, Chair, Polymer Science and Engineering Division, CSIR-National Chemical Laboratory, Pune.

For his studies on Polymer science & Engineering with many first conceptual breakthroughs.

10. **MJ Mahan** (*b* 1968), PhD, Full Professor (H), School of Mathematics, Tata Institute of Fundamental Research, Mumbai.

For his achievement in the resolution of a long-standing conjecture of Thurston that the limit set of a Kleinian group is locally connected.

11. **Jarugu Narasimha Moorthy** (*b* 1964), PhD, Dr Jag Mohan Garg Chair Professor, Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur.

For his contributions towards designing molecules by manipulating steric and electronic factors for desired thermal and photochemical reactivity.

12. **Pradeep P Mujumdar** (*b* 1958), PhD, Professor, Department of Civil Engineering, Indian Institute of Science, Bengaluru.

For his outstanding work in field of Hydrology and Water Resources Research.

13. **Dulal Panda** (*b* 1964), PhD, Chair Professor, Department of Biosciences & Bioengineering, Indian Institute of Technology Bombay, Mumbai.

For his contributions towards understanding the linkage between microtubule dynamics and cell cycle progression and elucidation of the mechanism of action of several microtubule-targeted anticancer drugs.

14. **Aryampilly Jayanthan Parameswaran** (*b* 1962), PhD, Professor (I), School of Mathematics, Tata Institute of Fundamental Research, Mumbai.

For his significant contributions to a wide variety of topics, including singularity theory, fibre bundles, Schubert varieties and representation theory.

15. **Madhavan Radhakrishna Pillai** (*b* 1960), PhD, MRCPATH, FRCPATH, Director & Professor, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram.

For his outstanding contribution in Oncological research specially the epithelial tumor progression and the role of human papilloma virus. His contributions has enormous impact on public health not only in India but for many other countries.

16. **Vijayamohanam Kunjukrishna Pillai** (b 1960), PhD, Director, CSIR-Central Electrochemical Research Institute, Karaikudi.

For his important contributions to materials, electrochemistry and their applications in molecular electronics and energy storage.

17. **Appa Rao Podile** (b 1960), PhD, Vice Chancellor, University of Hyderabad, Hyderabad.

For his important contributions in the field of plant-microbe interactions. His work on chitinases has enabled the development of alternatives to toxic antifungal compounds for plant protection.

18. **Dhruv Raina** (b 1958), PhD, Professor, Zakir Husain Centre for Educational Studies, School of Social Sciences, Jawaharlal Nehru University, New Delhi.

For his contributions to our understanding of the cultural assimilation of modern science since the 18th century and the creation of a new scientific and technological research ecosystem in India.

19. **Rajender Singh Sangwan** (b 1958), PhD, Director, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad.

For his outstanding contributions to the subject of bioprocesses and bioproducts related to secondary metabolites/nutraceuticals and metabolism in commercially cultivated medicinal plants, particularly Ashwagandha, and other bioresources.

20. **Kaustuv Sanyal** (b 1969), PhD, Professor, Molecular Mycology Laboratory, Molecular Biology & Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru.

For using the human pathogenic fungi *Candida* and *Cryptococcus* as model systems that has made seminal contributions in centromere evolution and chromatin biology.

21. **Ranjan Sen** (b 1967), PhD, Staff Scientist VII, Centre for DNA Fingerprinting and Diagnostics, Hyderabad.

For his studies on transcription termination and antitermination which are fundamental processes of gene regulation.

22. **Kulinder Pal Singh** (b 1952), PhD, Visiting Professor, Department of Physical Sciences, Indian Institute of Science Education and Research, Mohali.

For successfully designing, developing and deploying one of the most sophisticated soft X-ray imaging telescopes on India's first space observatory, AstroSat.

23. **Byrana Nagappa Suresh** (b 1943), PhD, Honorary Distinguished Professor, Department of Space, ISRO, Bengaluru.

For his significant contributions to the development of critical aerospace systems, which have resulted in a series of highly reliable launch vehicles for a variety of space craft.

24. **Qudsia Tahseen** (*b* 1964), PhD, Professor, Department of Zoology, Aligarh Muslim University, Aligarh.

For her fundamental contributions to the taxonomy and systematics of free-living soil nematodes and for the novel ecological approaches to nematode bio-systematics.

25. **Dalip Kumar Upreti** (*b* 1958), PhD, Deputy Director, CSIR-National Botanical Research Institute, Lucknow.

For his studies on lichens and discovering over 100 species that has facilitated capacity building on lichens in several institutions in India. He has advanced application of Lichenometric studies in pollution monitoring and bioprospection.

Fellows (w.e.f. 1st January, 2017)

1. **Arindam Ghosh** (*b* 1969), PhD, Associate Professor, Department of Physics, Indian Institute of Science, Bengaluru.

For his extensive experimental investigations into the structural, electrical and magnetic properties of various nanoscale systems, in a wide variety of materials.

2. **Govindasamy Mugesh** (*b* 1970), PhD, Professor, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru.

For his significant contributions in developing small molecule selenium compounds and vanadium-based nanomaterials (nanozymes) as anti-oxidant glutathione peroxidase mimetics and development of selenoenzymes for de-iodination of thyroid hormones.

3. **Maharaj Krishan Pandit** (*b* 1958), PhD, Dean, Faculty of Science, Professor & Head, Department of Environmental Studies & Director, CISMHE, University of Delhi, Delhi.

For his outstanding achievements in ecogenomics and conservation of Himalayan biodiversity through elucidation of the role of ploidy in plant invasion and rarity.

4. **Dayananda Siddavattam** (*b* 1957), PhD, Professor, Department of Animal Biology, School of Life Sciences, University of Hyderabad, Hyderabad.

For his contributions to mechanisms of microbial organophosphorus pesticide degradation (OPD), demonstration of the horizontal gene transfer of OPD catabolizing enzyme cluster through transposons and for development of sensors and devices to detect and remediate environments polluted with nerve agents and OP insecticides.

Fellows (w.e.f. 1st January, 2016)

1. **Vikraman Balaji** (*b* 1962), PhD, JC Bose National Fellow, Chennai Mathematical Institute, Kelambakkam.

V Balaji is a leading algebraic geometer who has made major contributions to the theory of moduli of vector bundles over curves and algebraic varieties. He has extended to higher dimensions the celebrated work of MS Narasimhan and CS Seshadri about the unitary representations of the fundamental groups of algebraic curves and vector bundles over them.

2. **Renee Maria Borges** (*b* 1959), PhD, Professor, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru.

Dr. Borges has made novel findings in sensory ecology of nocturnal bees and has significantly contributed to the chemical ecology of figs and fig wasps.

3. **Chitra Sarkar** (*b* 1955), MBBS, MD, FRC (Path), Professor, Department of Pathology, All India Institute of Medical Sciences, New Delhi.

Dr Sarkar has done outstanding work on the pathobiology of brain tumors, particularly gliomas and has identified unique molecular alterations in pediatric glioma and oligodendroglioma.

Fellows (w.e.f. 1st January, 2014)

1. **Debajyoti Choudhury** (*b.* 1964), PhD, Department of Physics and Astrophysics, University of Delhi, New Delhi.

For his seminal work on super symmetry and the use of top and Higgs physics to probe issues beyond the standard model. Particularly noteworthy in the algorithm for dark matter search using low energy particle physics experiments as well as the application of formal developments and the use of atomic physics in exploring scale invariance.

2. **Rajesh Sudhir Gokhale** (*b.* 1967), PhD, Staff Scientist-VII, National Institute of Immunology, Delhi.

He has used multidisciplinary approaches and made outstanding contributions to elucidation of biosynthetic machinery involved in the formation of complex cell surface coat of *Mycobacterium tuberculosis*.

Fellows (w.e.f. 1st January, 2013)

1. **Chanda Jayant Jog** (*b.* 1954), PhD, Professor, Department of Physics, Indian Institute of Science, Bengaluru.

Prof. Chanda J Jog for her many original investigations on the morphology and dynamics of galaxies, which incorporate all their components viz stars, gas and dark matter haloes. These have been used to interpret observational studies on galaxies.

Fellows (w.e.f. 1st January, 2012)

1. **Sanjeev Anant Galande** (*b* 1967), PhD, Professor, Indian Institute of Science Education & Research, Pune.

For his original contributions to chromatin organization in animal cellular processes.

Fellows (w.e.f. 1st January, 1990)

1. **Sankaran Subramanian** (*b* 1942), PhD, Adjunct Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai.

For his outstanding contributions in the field of magnetic resonance.

Foreign Fellows (w.e.f. 1st January, 2018)

1. **Philip Kumar Maini** (*b.* 1959), Statutory Professor of Mathematical Biology and Director, Wolfson Centre for Mathematical Biology, Mathematical Institute, University of Oxford, Andrew Wiles Building, Radcliffe Observatory Quarter, Woodstock Road, Oxford OX2 6GG, UK.

For his mathematical and computational modeling of biological processes relevant to wound healing and vascular tumour growth, scar formation and cancer therapy.

2. **Peter Smith** (*b.* 1965), Professor of Soils & Global Change, Institute of Biological and Environmental Sciences, University of Aberdeen, 23, St Machar Drive, Aberdeen, AB24 3UU, Scotland, UK.

For his pioneering experimental and modelling studies on greenhouse gas emissions from managed land.