

Indian Academy of Sciences elects new Fellows – 2010

Vidya A. Arankalle, National Institute of Virology, Pune

Area: Virology; molecular biology; vaccine; hepatitis viruses; emerging and re-emerging viruses.

Shally Awasthi, Chhatrapati Shahuji Maharaj Medical University, Lucknow

Area: Pediatric pulmonology; infectious and parasitic diseases; clinical trials.

A. K. Bag, Editor, *Indian Journal of History of Science*, Indian National Science Academy, New Delhi

Area: History of mathematics and astronomy in India; history of technology in India; editorial matters.

Purnima Bhargava, Centre for Cellular and Molecular Biology, Hyderabad

Area: Biochemistry and molecular biology; eukaryotic transcription; epigenetics and chromatin.

Subhash J. Bhatt, Sardar Patel University, Vallabh Vidyanagar

Area: Banach and topological algebras; operator algebras and applications; harmonic analysis.

Gautam Biswas, Indian Institute of Technology, Kanpur

Area: Enhancement of heat transfer; computational fluid dynamics; bubble growth in film boiling; free surface flows; turbomachinery and turbulence.

Pradip K. Chakraborti, Institute of Microbial Technology, Chandigarh

Area: Biochemistry and molecular biology; molecular microbiology; prokaryotic signal transduction.

Bharat B. Chattoo, M.S. University, Baroda

Area: Biotechnology; microbial and molecular genetics; genome analysis; bioprocess development.

Nitin Chattopadhyay, Jadavpur University, Kolkata

Area: Photophysics and photochemistry; time-resolved spectroscopy; fluorosensing; photoacoustic spectroscopy.

Debajyoti Choudhury, University of Delhi, Delhi

Area: High energy physics.

Amitava Das, Central Salt and Marine Chemicals Research Institute, Bhavnagar

Area: Supramolecular chemistry and assembly; molecular recognition interfacial electron transfer.

Samar Kumar Das, University of Hyderabad, Hyderabad

Area: Coordination chemistry; metal-oxide based cluster chemistry; inorganic supramolecular chemistry.

Indranil Dasgupta, University of Delhi South Campus, New Delhi

Area: Molecular plant-virus interactions; transgenic viral resistance in plants; genome organization in plant viruses.

Rajan Dighe, Indian Institute of Science, Bangalore

Area: Molecular endocrinology; reproductive biology; biochemistry.

Aparna Dutta-Gupta, University of Hyderabad, Hyderabad

Area: Insect physiology and biochemistry; invertebrate endocrinology and physiology; comparative physiology and endocrinology.

Sanjeev Galande, National Centre for Cell Science, Pune

Area: Chromatin biology; gene regulation; genomics and proteomics.

Ashok Kumar Ganguli, Indian Institute of Technology, New Delhi

Area: Solid state and materials chemistry; nanomaterials; superconducting materials.

Balaram Ghosh, Institute of Genomics and Integrative Biology, Delhi

Area: Immunology; genomics; gene regulation.

P. K. Ghosh, Central Salt and Marine Chemicals Research Institute, Bhavnagar

Area: Redox processes; colloid and emulsion science; process research.

Rama Govindarajan, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

Area: Fluid mechanics; nonlinear dynamics.

S. A. Haider, Physical Research Laboratory, Ahmedabad

Area: Planetary atmospheres; ionosphere of mars; magnetosphere of mars.

A. Indrayan, University College of Medical Sciences, Delhi

Area: Medical biostatistics; medical research methodology; medical informatics.

S. K. Khanduja, Panjab University, Chandigarh

Area: Algebra; valuation theory; algebraic number theory.

Paramjit Khurana, University of Delhi South Campus, New Delhi

Area: Plant biotechnology; comparative plant genomics; molecular basis of plant differentiation and morphogenesis.

Ravinder Kumar Kohli, Panjab University, Chandigarh

Area: Experimental ecology; weed science; plantation forestry and urban forestry.

Sambasivarao Kotha, Indian Institute of Technology, Mumbai

Area: New synthetic methods; unnatural amino acids; transition metals in organic synthesis.

Anurag Kumar, Indian Institute of Science, Bangalore

Area: Communication networks; stochastic modelling; analysis and optimization of distributed systems.

Lalit Kumar, All India Institute of Medical Sciences, New Delhi

Area: Stem cell transplantation; multiple myeloma (haemato-oncology); gynaecologic oncology.

Ashish K. Lele, National Chemical Laboratory, Pune

Area: Polymer dynamics; rheology and processing; rheology of complex fluids; hydrogels and gelation processes.

Kalobaran Maiti, Tata Institute of Fundamental Research, Mumbai

Area: Correlated electron systems; magnetism and superconductivity; electron spectroscopy.

Birendra Nath Mallick, Jawaharlal Nehru University, New Delhi

Area: Neurobiology; physiology; sleep-wakefulness.

Naba Kumar Mondal, Tata Institute of Fundamental Research, Mumbai

Area: Experimental particle physics; accelerator-based and non-accelerator-based particle physics and neutrino physics.

J. N. Moorthy, Indian Institute of Technology, Kanpur

Area: Organic photochemistry; supramolecular chemistry; organic synthesis.

Amitabha Mukhopadhyay, National Institute of Immunology, New Delhi

Area: Cell biology; host-pathogen interactions; drug delivery.

D. S. Nagaraj, The Institute of Mathematical Sciences, Chennai

Area: Mathematics; algebraic geometry; vector bundles.

K. S. Narayan, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

Area: Organic/polymer electronics; device physics; soft matter physics.

R. R. Navalgund, Space Applications Centre, Ahmedabad

Area: Remote sensing; space applications; magnetic resonance.

Amlan Jyoti Pal, Indian Association for the Cultivation of Science, Kolkata

Area: Organic electronics; device physics; nanomaterials.

S. K. Pati, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore

Area: Quantum magnetism; generalized charge transfer phenomena; biomolecular simulations.

Amit Kumar Patra, National Atmospheric Research Laboratory, Gadanki

Area: Ionospheric electrodynamics and plasma instabilities; space weather; radar probing techniques.

D. Ramaiah, National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram

Area: Design of sensitizers for photodynamic therapy; development of probes for biomolecules; photochemistry of multichromophoric organic systems.

Krithi Ramamritham, Indian Institute of Technology, Mumbai

Area: Databases; real-time systems; use of information and communication technologies for socio-economic development.

V. Ramamurti, AUFRC CAD/CAM Centre, Chennai

Area: Vibrations; stress analysis.

Upadrasta Ramamurthy, Indian Institute of Science, Bangalore

Area: Mechanical behaviour of materials; advanced materials; nanotechnology.

G. Rangarajan, Indian Institute of Science, Bangalore

Area: Nonlinear dynamics and chaos; time series analysis; brain machine interface.

T. S. S. R. K. Rao, Indian Statistical Institute, Bangalore

Area: Mathematics; functional analysis; geometry of Banach spaces.

V. Ravi, NIMHANS, Bangalore

Area: Neurovirology; viral diagnostics; molecular epidemiology of viral infections.

Tanusri Saha-Dasgupta, SN Bose National Centre for Basic Sciences, Kolkata

Area: Condensed matter physics; computational materials science; electronic structure calculations.

Mohammad Sami, Jamia Millia Islamia, New Delhi

Area: Cosmology: cosmological inflation and dark energy.

S. S. Sane, University of Mumbai, Mumbai

Area: Finite geometries; design theory; graph theory.

Rajan Sankaranarayanan, Centre for Cellular and Molecular Biology, Hyderabad

Area: Structural biology; translation of the genetic code; enzyme mechanisms.

Apurva Sarin, National Centre for Biological Sciences, Bangalore

Area: Immunology; cell biology; apoptosis.

S. K. Satheesh, Indian Institute of Science, Bangalore

Area: Aerosols; radiation; climate.

S. K. Sharma, All India Institute of Medical Sciences, New Delhi

Area: Internal medicine; pulmonary and critical care medicine; sleep medicine.

G. V. Shivashankar, National Centre for Biological Sciences, Bangalore

Area: Biophysics; cell biology; gene expression.

Sudeshna Sinha, Indian Institute of Science Education and Research, Chandigarh

Area: Nonlinear dynamics; chaos; complex systems.

R. Sowdhamini, National Centre for Biological Sciences, Bangalore

Area: Structural bioinformatics; protein domain superfamilies; genome-wide survey and function annotation of genes.

Kandaswamy Subramanian, Inter-University Centre for Astronomy and Astrophysics, Pune

Area: Cosmic magnetic fields; structure formation; cosmology.

J. S. Yadav, Indian Institute of Chemical Technology, Hyderabad

Area: Total synthesis of biologically active natural products; agrochemicals and pheromones; development of new methodologies for sustainable chemistry.