Infosys Prize

2012

Engineering & Computer Science

Ashish Lele, Scientist at the National Chemical Laboratories (NCL), Pune, for his incisive contributions in molecular tailoring of stimuli responsive smart polymeric gels; exploring the anomalous behavior of rheologically complex fluids, and for building the bridge between macromolecular dynamics and polymer processing.

Life Sciences

Satyajit Mayor, Professor, Cellular Organisation and Signalling, National Centre for Biological Sciences, Bangalore, for his work which provides new insights into regulated cell surface organization and membrane dynamics, necessary for understanding self-organization and trafficking of membrane molecules in living cells, and in signaling between cells.

Mathematical Sciences

Manjul Bhargava, Professor of Mathematics, Princeton University, USA, for his extraordinarily original work in algebraic number theory. His work has revolutionized the way in which various fundamental arithmetic objects, such as number fields and elliptic curves, are understood.

Physical Sciences

Ayyappanpillai Ajayagosh, Senior Scientist, National Institute for Interdisciplinary Science and Technology (NIIST), CSIR, Trivandrum, for his pioneering development of methods for the construction of supramolecular functional materials, which can be employed as components in organic electronic devices and in powerful substance selective optical sensing and imaging.
2013

Engineering & Computer Science

V Ramgopal Rao, Institute Chair Professor, Department of Electrical Engineering and Chief Investigator, Centre of Excellence in Nanoelectronics, Indian Institute of Technology, Bombay for his wide-ranging contributions to nanoscale electronics, for integrating chemistry with mechanics and electronics to invent new functional devices, and for innovation and entrepreneurship in creating technologies and products of societal value.

Life Sciences

Rajesh S Gokhale, Director, CSIR – Institute of Genomics and Integrative Biology, New Delhi for his work in the field of lipid metabolism in M. tuberculosis. He discovered fatty acyl AMP ligases in tubercle bacillus, their role in the generation of the lipid components of its cell wall and of their existence in other organisms, where they play a role in biosynthesis of complex molecules.

Mathematical Sciences

Rahul Pandharipande, Department of Mathematics, Eidgenössische Technische Hochschule (ETH), Zurich, for his profound work in algebraic geometry. In particular, for his work on Gromov–Witten theory for Riemann surfaces, for predicting the connection between Gromov–Witten and Donaldson–Thomas theories, and for his recent work with Aaron Pixton that establishes this connection for Calabi–Yau 3-folds.

Physical Sciences

Shiraz Naval Minwalla, Professor, Department of Theoretical Physics, Tata Institute of Fundamental Research, Mumbai, IBM Einstein Fellow, and Visiting Professor, Institute for Advanced Study, Princeton for his pioneering contributions to the study of string theory, quantum field theory and gravity, and for uncovering a deep connection between the equations of fluid and superfluid dynamics and Einstein’s equations of general relativity.