

Professor Adinpunya Mitra: Short BIO-SKETCH

Prof Dr Adinpunya Mitra is currently a professor at Indian Institute of Technology Kharagpur (IIT Kharagpur), where he carries out his teaching and research in the Agricultural and Food Engineering Department. Originally a botanist by training, he obtained his both **BSc (Hons)** and **MSc** degrees from the **University of Burdwan**; he also successively completed his **MTech** in Biotechnology from **IIT Kharagpur**. After doing research on medicinal plants-tissue culture for over two years as a *Research Fellow (CSIR-NET)* at the **CSIR-National Chemical Laboratory** in Pune (India), Dr Mitra moved to United Kingdom on a **Commonwealth Scholarship** in 1996 to do his doctoral research with Dr N J Walton on metabolic engineering of plant phenolics at the **BBSRC-Institute of Food Research** (now Quadram Institute Biosciences) in **Norwich**, a school of his own choice. Upon his return to India with a **PhD** degree of the **University of East Anglia** (*Norwich, England*), he joined **Visva-Bharati** (*a central university*), Santiniketan and served there for one year as a Lecturer in Biotechnology. In November 2000, He moved to IIT Kharagpur as an Assistant Professor in Applied Botany. He was appointed as full Professor in April. 2014.

Prof Mitra spent one full year during 2006-2007 at **Technical University of Braunschweig**, Germany on a concurrent sabbatical leave and *DBT-biotechnology overseas associateship award* for his post-doctoral research work in the area of molecular biology of plant natural product metabolism. Prof Mitra was also the recipients of **DAAD scholarships, DFG-INSA exchange fellowship, PAN-INSA visiting fellowship** and **DBT-CREST award** for short-term research stays at the universities in **Braunschweig, Rostock** (Germany), **Wroclaw** (Poland) and **Zürich**, respectively. He has been a recipient of Indo-Russian research grant (DST-RFBR) in 2019 for basic research in partnership with **Komarov Botanical Institute** at **St. Petersburg, Russia**. He had also been awarded a competitive **young scientist research grant** from **International Foundation of Science, Sweden** in the year 2005.

At IIT Kharagpur, Prof Mitra leads a research group in the field of **plant specialized metabolism**. He has made seminal contribution in understanding the fine regulation of phenolics and volatile terpenoids pathways in medicinal and model plants using hairy root culture systems. Prof Mitra's current research focused in the field of **plant scent volatiles** aiming at understanding of floral scent emission in species of horticultural importance.



At Leiden in April 2015

Seventeen students have obtained PhD degree under his guidance, and all of them are working in academics including faculty positions at IIT, central university, central agricultural university, technical university, government colleges and ICAR. Currently, ten doctoral students are working with him and several of them won prizes in international and national symposiums and workshop upon presenting their research findings. **He has also guided more than 35 MTech theses.** Prof Mitra attracted **21 research grants** from DBT, DST, SERB, CSIR, DAE-BRNS, WB-DST and AICTE and generated more than 5.0 crores in Indian Rupees. He had also obtained a competitive infrastructure challenge grant from IIT Kharagpur.

Prof Mitra has published more than **80 papers** in recognized international journals in the area of plant biology such as, Plant & Cell Physiology, Environmental & Experimental Botany, Plant Molecular Biology, Planta, Phytochemistry, Physiologia Plantarum, Plant Science, Plant Biology, Protoplasma, PPB, JPP, PCTOC, AMB and Microbial Ecology. His citations have crossed over 2450 with a **h-index 29** and **i10-index 54** (source: Google Scholar). Besides, Prof Mitra presented his research findings in many international meetings abroad, including Phytochemical Society of Europe meetings in Czech Republic, Italy and Holland. He was invited to deliver a talk at the XVII International Botanical Congress in Vienna **with full young scientist travel fellowship**. He also participated in 8th International Plant Metabolomics Workshop held in Leiden University (Netherlands).

Prof Mitra has been elected as a **fellow of West Bengal Academy of Science and Technology (FAScT)** for his notable contribution in the area of plant volatiles & specialized metabolism. He is also an **elected member of Plant Tissue Culture Association (India)**. Current he is serving as members of boards of studies (biotechnology/life sciences) at two central universities in eastern & north-eastern India. He also served as member of faculty selection committee at several institutes and universities in India. Besides, as an external expert he examined more than two dozen doctoral theses of reputed Indian Universities and institutions such as, IIT Roorkee, AcSIR-IICB, AcSIR-IHBT, JNU-CIMAP, ICT Mumbai, MNNIT Allahabad, BITS Pilani, BIT Mesra, Jadavpur University, Osmania University, University of Delhi, JNTU Hyderabad, University of Calcutta and Visva-Bharati. He is also serving as referees for grants proposals of SERB and DBT. Prof Mitra also served as an expert member on grant panels of DBT (NER-BPMC) Govt of India.



With Nick Walton, Tapan Dutta, Kajal Gupta and Ludger Beerhues, his doctoral, UG, PG ad sabbatical mentors, respectively