

Biosketch

Name : Dr. Nutan Kaushik

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With a Ph.D. in Agricultural Chemicals from Indian Agricultural Research Institute, New Delhi (1991), Dr. Nutan Kaushik is a professional with extensive experience of over 30 years in R&D and over 20 years in PG teaching in the field of biotechnology, plant protection, natural products, analytical chemistry and agriculture policy. As head of R & D research group she has been involved in project development and management, laboratory management, supervision and teaching of post graduate, Ph. D. students and researchers, training of other researchers, publication and grant writing. Her important areas of work are analytical and natural product chemistry, food waste valorisation, development of microbial and botanical pesticides, study pesticides residue in plants and soils, metabolism of pesticides in plants, development of pest management modules and their demonstration at farmer's field, agriculture policy, climate change and biowaste utilization.

She has handled more than 50 projects as PI or Co-PI including 17 international projects EU, USAID, UNEP, Indo-German, DAAD, Indo-French, Indo-Australia, Indo-US, Indo-Spanish, Indo-Norway, and Indo-Tunisia widely travelled in 35 countries. She has worked as visiting scientist in several international universities in USA, Germany, France, Australia, Spain, Norway, Tunisia, Netherlands etc. as visiting scientist.

She has been awarded several prestigious international fellowships such as Fellow of Royal Society of Chemistry, UK; USDA Cochran Fellow at Michigan State University, USA; Nuffic Fellow at Wageningen University, Netherlands; DBT-CREST Fellow at University of California, Davis, USA; and DAAD

Research Ambassador, UNESCO fellowship, INSA Young Scientist travel award. Her BIRAC project was awarded Best BIRAC Project by BIRAC. She is recipient of Bharat Jyoti Award and more recently BioAg Asia Award 2022 special achievement award. She has served as Member of Expert Review Committee and Member of Task Force of BIRAC and DBT.

She has published more than 90 papers in reputed journals with combined impact factor of more than 500 and filed 27 patents, developed several technologies viz. Bollcure Biopesticide (commercialized to 3 Indian and 1 US company), Bionematicide (commercialized to Spanish company), developed several variety of *Brinca juncea* and *B.napus*, Microbial antifungal formulation, fish processing waste valorisation into protein hydrolysate and gelatin, functional food and protein enriched soup, meatball, technology for induction of agarwood production by artificial infection, IPM packages, climate smart agriculture practices etc. Bollcure Biopesticide was breakthrough research by utilizing leaver of eucalyptus for development of biopesticide. She developed technology for artificial infection of agarwood.

She has developed protocols for efficient quantitative estimation of fatty acids, glucosinolate, azadirachtin, withaferin, tylophora alkloids, chlorophytum saponins and pesticide residues by GLC, HPLC and spectrophotometric methods. She has also standardized Half-seed method for estimation of fatty acids in Brassica seeds. Under chemo typing activity her efforts has led to the identification of several chemotypes of Neem, Berberis, Ocimum, Asparagus, Chlorophytum, Withania, Tylophora, Karanja, Gymnema and Jatropha having high ai / high oil content and isolation of new bioactive compounds. She has participated in various prestigious national and international network projects such as NEEM Network of NOVODB, Board, Jatropha Network of DBT and NOVODB, Karanja Network of NOVODB, Linseed Network of DBT, Bioprospecting network of DBT, NATP Network by ICAR, Agarwood network by DBT, three EU projects, USAID IPMCRSP network project, UNEP network, APN network project as PI and co-ordinator .

She has guided 15 Ph.D scholars and more than 50 Masters and undergraduate students. She has served as guest editor of many prestigious journals such as Phytochemistry Reviews, Current Medicinal Chemistry, Frontiers in Fungal Biology, Heliyon etc.