

Brief Profile of Prof. Anil Kumar
Founder Director Education
Rani Lakshmi Bai Central Agricultural University, Jhansi (UP)

Name : Anil Kumar, Ph D
Present Position : Director Education
Address for correspondence: Rani Lakshmi Bai Central Agricultural University, Gwalior
Road, Near Pahuj Dam, Jhansi-284 003 (UP)
Previous Position : Professor & Head, Department of Molecular Biology & Genetic
Engineering, College of Basic Sciences & Humanities, G. B. Pant
University of Agriculture & Technology, PANTNAGAR 263 145 India
Specialization : Plant Molecular & Cell Biology, Functional Genomics, Fungal
Biology, Host-Pathogen Interaction, Mineral nutrition, Nano &
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Academic Career & Professional Experiences:

Director Education (Rs. 1,99,000 +DA), Rani Lakshmi Bai Central Agricultural University, Jhansi-284 003 (UP), July 28, 2018

Professor & Head (Rs. 16400-22400), Dept. of Molecular Biology & Genetic Engineering, G.B. Pant University of Agriculture & Technology, Pantnagar. Oct. 2006 to July 27, 2018.

Professor & Incharge (Rs. 16400-22400), Deptt. of Molecular Biology & Genetic Engineering, G.B. Pant University of Agriculture & Technology, Pantnagar. Sept. 2006 to till date

Associate Professor & Incharge (Rs. 12000-16640), Deptt. of Molecular Biology & Genetic Engineering, G.B.Pant University of Agriculture & Technology, Pantnagar. Aug. July. 2003-Aug. 2006

Assistant Professor (Rs. 3000-5000), Deptt. of Molecular Biology and Genetic Engineering G.B. Pant University of Agriculture and Technology, Pantnagar. Dec. 1993-Aug. 1999 :

Lecturer (Rs. 3000-5000), Cancer Hospital and Research Institute, Gwalior June. 1991-Dec. 1993

Junior Resident Officer (Rs. 2780+DA as permissible to U.P. Govt. employees), GVSM Medical College, Kanpur. Dec. 1989- June 1991

Demonstrator (Rs. 670-1100), MLB Medical College, Jhansi. April 1986-Dec. 1989

Awards and Honours:

- CHAI Appreciation Award- 2018** for research and development contribution especially in nanotechnology
- Dr. Bir Bahadur Singh Outstanding Scientist Award-2017** for the promotion of excellence in research in Agriculture
- Uttarakhand Governor's Award-2016** for best research paper.
- Archana Sharma Memorial Award-2016** by Society for Plant Research (VEGETOS)
- University Best Teacher Award-2015.**
- Bharat Ratna Dr C. Subramaniam Award for Outstanding Teachers 2015 by ICAR, Govt. of India, New Delhi** to provide recognition to outstanding teachers and to promote quality teaching in the field of Agriculture. Award consists of Rs 1.00 lakh in cash + travel grant of Rs 1.00 lakh to

promote innovation in teaching.

7. **Fellow of National Academy of Biological Sciences-2015** by esteemed Academy, Chennai.
8. **Outstanding Faculty Performer Recognition-2015** by Department of Biotechnology, Govt. of India, New Delhi.
9. **INSA Teacher's Award-2014** to recognize and honor the contributions for showing consistent and high level of teaching in Science & Technology.
10. **Fellow of Indian Society of Agricultural Biochemists-2013** in Indian Society of Agricultural Biochemists.
11. **Honorary Member-2012** in Executive Council of National Academy of Biological Sciences, Chennai
12. **Fellow of Confederation of Horticulture Associations of India (CHAI)-2012** for his contribution and commitment to the furtherance of horticulture. During four days Global Conferences, and National exhibition, organised by ASM Foundation and OUAT, Bhubneswar.
13. **Honorary Member-2010** of National Academy of Sciences, India for his scientific contribution in the field of Biological Sciences.
14. **Scientist of Excellence Award- 2007** for his contributions in the field of Biotechnology by Society of Plant Research on 15th March, 2008 at Modipuram (Meerut), during two days Symposium on "Role of Biotechnology in the National Development".
15. **Shiksha Rattan Award** for outstanding service achievements & contributions by India International Friendship Society on 27th Nov, 2007 at New Delhi, 2007.
16. **Visiting Scientist** under world bank-GEF project 2007 as part of Indian delegation for visiting University of Tsukuba (Japan) to study the Biosafety measures for risk assessment for LMOs/GMOs
17. **Visiting Scientist** under ICAR-NATP scheme 2004 for visiting University of Alabama, Huntsville, USA
18. **Food and Agricultural Organization Fellowship Award** under ICAR-AHRD scheme from FAO, Rome (Italy) 2000-2001 for visiting Hebrew University of Jerushalam, Rehovot (Israel).
19. **Young Scientist Project Award** from Department of Science & Technology, Government of India, New Delhi.1998.
20. **Regional Service Award** recipient for presenting papers at International Congress of Clinical Chemistry, Melbourne, Australia sponsored by IFCC and APACC, 1993.
21. **Regional Service Award** recipient for presenting papers at 5th Asian Pacific Congress of Clinical Biochemistry, Kobe, Japan, Sponsored by IFCC. 1991.
22. **Regional Service Award** for presenting paper at 4th Asian Pacific Congress of Clinical Biochemistry, Hong Kong, sponsored by IFCC. 1988.
23. **National Merit Scholarship** from 1977 to 1980 by the Government of India on the basis of High School Merit.

Visit Abroad : (15 Countries)

USA, UK, Australia, Netherlands, Austria, Japan, Hongkong, Taiwan, Singapore, Bangkok, Israel, Jordon, Dubai, Nepal, Malashiya

International Trainings: Rehovot (Israel), Huntsville (USA) & Tsukuba & Tokyo (Japan)

Academic Recognition:

- **Head**, Department of Molecular Biology & Genetic Engineering, College of Basic Sciences & Humanities, G.B. Pant University of Agriculture & Technology, Pantnagar.
- **Coordinator**, Human Resource Development Programme in Agricultural Biotechnology for imparting Master's training, Department of Biotechnology (Government of India), New Delhi
- **Coordinator**, Sub-DIC in Bioinformatics for imparting Master's training, Department of Biotechnology (Government of India), New Delhi
- **Coordinator**, Biosafety Centre for capacity building for effective Implementation of Cartagena Protocol in Biosafety, Ministry of Environment & Forests (Government of India), New Delhi
- **Coordinator**, Programme Mode Support in Agricultural Biotechnology, Department of Biotechnology (Government of India), New Delhi
- **Chairman**, for designing the course curriculum of Master's programme in Nanoscience & Nanotechnology
- **Team leader** of a 10-member delegation exhibiting the Biotechnology activities in Bio-Bangalore 2008, 24-26th April, 2008.
- **Chairman**, Research Advisory Committee in Bioinformatics at Forest Research Institute, Dehradun
- **Member**, Research Advisory Committee, Indian Institute of Spices Research, Calicut (Kerala) nominated by Director General, ICAR, New Delhi for a period of three years with effect from 26.09.10
- **Members**, Research Doctoral Committees of various universities, Board of Studies of several colleges and Universities
- **Member**, Faculty Science Council, Lucknow University nominated by Academic Council
- **Member Secretary** Institute Biosafety Committee for achieving personal and environmental safety in the use of genetically manipulated organisms in research, manufacture and applications at GB Pant Univ. of Agri and Tech, Pantnagar since 2004
- **Members** Institute Biosafety Committees of several institutions for evaluation of research proposals in terms of personal and environmental safety in the use of genetically manipulated organisms in research, manufacture and applications
- **Subject Expert** in the Technical session II-Applications of Nanotechnology in disease diagnosis during Brainstorming session on "Applications of Nanotechnology in Agricultural Sciences", 27-28th March, 2010. Central Institute of Fisheries Education, Mumbai.
- **Co-chairman** in the Review meeting of moderately satisfactory consortia of NAIP projects in the session of Component-4 Basic and Strategic research held at Pantnagar on 18th and 19th Feb, 2011
- **Subject Expert** Departmental Promotion Committee constitute by Director General ICAR, New Delhi at Central Rice Research Institute, Cuttack and Vivekanand Parvatiya Krishi Anusandhan Kendra, Almora
- **Members** Selection board of DRDO, New Delhi; IGFRI, Dehradun; Garhwal University, Srinagar; Kumaon Engineering College, Dwarhat for recruiting lecturers/ Scientists/Assistant Professors
- **Reviewer** for several leading national and international journals
- **Project reviewer** of CSIR, DBT, UP Council of Science & Technology

Life member of Scientific & Professional Societies: > 10

National conference/Trainings/organized organized: 18

Theses guided

Ph. D Theses	:	16
Master's Dissertations	:	33
Theses co-guided :		
M. Sc.:	>3	Ph.D.: >30

Mentorship:7 (Post-Doctoral)

Research Projects: 15 with a budget outlay of >1500 lakhs

Invited Speaker/Faculty Member, Training courses/Symposia, Workshop or Congress:>85

Research Papers Published: 225

Average range of Impact Factor	:	0.9-4.5
H-index	:	24.0
i10-index	:	76.0
Citations	:	>2035

Patents & Technologies: 01 patent granted 07 patents filed or published, 02 Technologies

NCBI Genbank submissions: >240

Popular Articles and Book Chapters: >50

Books/Manuals: 12

Research contributions

Dr Anil Kumar contributed significantly in the research area of Genomics for Crop Improvement especially in resolving the complexity of agriculturally important traits such as the Biology of Biotic stresses and Mineral Nutrition. For the first time, he has identified several gene regulatory networks controlling complex agriculturally important traits of mineral nutrition and disease development using multi-pronged OMICS approaches. He has played pivotal role in identification of molecular markers for genetic diversity analysis and first time dissecting QTLs for calcium and yield traits in finger millet through GBS analysis and also development of finger millet transcriptome database for defining grain calcium accumulation trait; Tri-partite interaction of Calcineurin B-like proteins (CBL), CBL interacting kinases and calcium exchanger. He identified genes encoding two seed storage proteins namely *FimA1* and *FimP2* having 9% lysine and 16% methionine. The draft genome of Karnal bunt (KB) deciphered by him has enabled better understanding of the effector functions of fungal pathogenesis and identification of unique diagnostic markers. Immunodiagnostic kit developed for KB would help in disease surveillance and quarantine regulations. Dr. Kumar has filed several patents on synthesis of nano delivery vesicles for facilitation of uptake of fat soluble vitamins, Nano-curcuminoids for better bio-availability and nano-iron pro-booster technology for agronomic bio-fortification. His pioneer research work has been highlighted by several magazines like NATURE and published in several international journals of repute with citation index: 2018, H-index 24 and i10 index 76. He has been an outstanding teacher and researcher who is credited with many awards and recognitions from different organizations including university, ICAR, INSA, DBT.