

## Biodata

### **Dr Himanshu Pathak**

FNA, FNASc, FNAAS, FAvH, FAScT

### **Secretary, DARE & Director General, ICAR**

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- 1. Date of Birth:** February 2, 1965
- 2. Areas of Specialization:** Soil Science, Climate Change, Abiotic Stress Management
- 3. Work Experience:** 30 years

### **4. Education**

Degree	Year	Class/Grade	University
BSc (Ag)	1986	1 <sup>st</sup> Class, OGPA 4.0/4.0	Banaras Hindu University, Varanasi, India
MSc	1988	1 <sup>st</sup> Class, OGPA 3.8/4.0	Indian Agricultural Research Institute, New Delhi
PhD	1992	1 <sup>st</sup> Class, OGPA 4.0/4.0	Indian Agricultural Research Institute, New Delhi

### **5. Post-doctorate Experience and Training**

- University of Essex, United Kingdom (1996-97).
- Institute of Meteorology and Climate Research, Germany (2004-05).
- Management Development Programme, NAARM, Hyderabad, India (2014).
- Executive Development Programme, NAARM, Hyderabad, India (2016).
- Advances in Soil Science for Maintenance of Soil Health, PAU, Ludhiana (1993).
- Use of GIS & Remote Sensing in Management of Land & Water Resources, IARI, New Delhi (1995).
- Modelling Soil Fertility, IRRI, Philippines (1999).
- Land use planning for mitigating GHG emission, IMK, Germany (2004).
- Emission of greenhouse gases from soil, University of Essex, UK (1996).
- Use of Isotopes and Radiations in Soil-Plant Relationships, IARI, New Delhi (1998).
- Modelling Growth and Yield of Crops, IARI, New Delhi (2001).
- Foundation Course on Agricultural Research Project Management, NAARM, Hyderabad (1992).
- Subject Matter Training on Soil Science, CSSRI, Karnal, Haryana (1992).

### **6. Professional History**

- ICAR-National Institute of Abiotic Stress Management, Baramati, Maharashtra (2020 onwards).
- Director, ICAR-National Rice Research Institute, Cuttack, Odisha, India (2016-2020).
- Principal Scientist, Indian Agricultural Research Institute (IARI), New Delhi (2009-16).
- Professor, Discipline of Environmental Sciences, IARI (2013-16).
- Co-Facilitator, Rice-Wheat Consortium, (IRRI)-India, New Delhi (2006-09).
- Humboldt Fellow, Institute of Meteorology and Climate Research, Germany (2004-06)
- Senior Scientist, IARI (2001-04), Scientist (Sr. Scale), IARI (1999-2001); Scientist, IARI (1992-99).
- Visiting scientist IRRI, Philippines and CSIRO Land and Water, Australia.
- Participated in more than 70 international symposia/conferences in 27 different countries.

### **7. Teaching and Student Guidance**

- Teaching and guiding MSc and PhD students since 1993 at IARI, New Delhi.
- Teaching Environmental Science (Global Climate Change, Introduction to Environmental Pollution, Soil and Water Pollution, Greenhouse Gas Emission, Crop Modelling) courses for M.Sc. and Ph.D.

- Supervised 3 MSc and 3 PhD students in the Discipline of Environmental Sciences at Indian Agricultural Research Institute, New Delhi.
- Advisory Committee Member of 40 students in various Disciplines of Agricultural Sciences.
- Designed curriculum for the courses on Introduction to Environmental Sciences, Global Climate Change and Agriculture, Simulation Modelling, etc. for MSc and PhD students at IARI.

## **8. International Experience**

- Humboldt Fellow, Institute of Meteorology and Climate Research, Germany (2004-05).
- Visiting Scientist, International Rice Research Institute, Philippines (1999 and 2001).
- Visiting Scientist, CSIRO Land and Water, Griffith, Australia (2003).
- BOYSCAST Fellow, University of Essex, United Kingdom (1996-97).
- Co-Facilitator, Rice-Wheat Consortium, IRRI-India (2006-09).
- Resource person for course on climate-smart agriculture, Haramaya University, Ethiopia (2017-18).
- Participated in more than 70 international meetings and conferences in 30 countries.

## **9. Publications**

- h-index 68, i10-index 210 with more than 19,000 citations in international literature.
- Published more than 200 research papers, 31 review papers, 27 popular articles and 14 books.
- Identified among the top 2% of global scientists in agriculture by Stanford University, USA.
- Ranked No. 365 in the world and No. 5 in India in Plant Science & Agronomy by Research.com.

## **10. Awards and Recognitions**

### **• Fellowship of Academies**

1. National Academy of Agricultural Sciences (NAAS), India (2007).
2. West Bengal Academy of Science and Technology, India (2013).
3. Indian National Science Academy (INSA), India (2014).
4. National Academy of Sciences, India (NASI) (2016).
5. Indian Climate Congress, Bhubaneswar, Odisha (2018).

### **• International Awards and Recognitions**

1. Alexander von Humboldt Fellowship of Germany (2004).
2. BOYSCAST Fellowship of Dept. of Science & Technology, Govt. of India (1996).
3. Lead Author of the Inter-Governmental Panel on Climate Change (IPCC) 5<sup>th</sup> Assessment Report (2011-2014).
4. Lead Author, Refinement to the IPCC Guidelines for National Greenhouse Gas Inventories (2017-2019).
5. Reviewer, IPCC 6<sup>th</sup> Assessment Report (2022).
6. Coordinator for United Nations Framework Convention on Climate Change, Ministry of Agriculture and Farmers Welfare, Govt. of India (2011-2015).
7. Outstanding Administrative Support Award, IRRI, Philippines (2007).

### **• National Awards and Recognitions**

1. Rafi Ahmed Kidwai Award of Indian Council of Agricultural Research (2019).
2. Dr. NS Randhawa Memorial Award, NAAS (2021).
3. Dr. RV Tamhane Memorial Lecture Award of by the Indian Society of Soil Science (2021).
4. Platinum Jubilee Award Lecture of ISCA (2018).
5. Krushi Gourav Award, Orissa Krushak Samaj (2017).
6. Silver Jubilee Commemoration Medal of INSA (2016).
7. Society of Agricultural Professional Excellence Award (2016).
8. Prof. SK Mukherjee Commemoration Award of ISCA (2012).
9. Recognition Award of NAAS, India (2011).
10. Dr. BC Deb Memorial Award of ISCA (2001).
11. Golden Jubilee Young Scientist Award, Indian Society of Soil Science (1998).
12. Young Scientist Award of Indian Science Congress Association (1994).

- **President/Convener of Academies/Professional Societies**
  1. President of Association of Rice Research Workers, Cuttack, Odisha (2018-21).
  2. Executive President of Society for Conservation of Nature, New Delhi (2016-22).
  3. President of Agriculture and Forestry Sciences Section of ISCA (2007).
  4. Convener, Pune Chapter, National Academy of Agricultural Sciences, New Delhi (2021).
  5. Treasurer, National Academy of Agricultural Sciences (NAAS), 2010-2014.
  6. Vice-President, Society for Advancement of Rice Research, Hyderabad (2017-21).
- **Editor of Journals**
  1. Indian Journal of Agricultural Science, ICAR, New Delhi (2018 onwards).
  2. Agricultural Research, NAAS, New Delhi (2017 onwards).
  3. Indian Journal of Agronomy, Indian Society of Agronomy (2011-17).
  4. Greenhouse gases: Science and Technology, John Wiley Publication (2010-15).
  5. Current Advances in Agricultural Sciences, Kanpur (2007-14).
- **Member of Academic and Policy-framing Bodies**
  1. Chairman, Global Technology Watch Group, TIFAC, DST, New Delhi (2018).
  2. Chairman, Controlled Release Fertilizer in India, TIFAC, DST, New Delhi (2020).
  3. Member, Apex Committee for the Paris Agreement, MoEFCC, Govt. of India (2021-23).
  4. Member, Adoption of Higher Academic Grade Committee, ICAR, New Delhi (2022).
  5. Member, Consortium for CSA in South Asia, SAARC, Kathmandu (2021 onwards).
  6. Member, Think Tank for Innovation in the Fertilizer Sector, Govt. of India (2021).
  7. Member, Senior Officers Committee, ICAR, New Delhi (2020).
  8. Member, Scientific Advisory Committee, Tea Research Association, Assam (2020).
  9. Executive Council, Uttar Banga Krishi Viswavidyalaya, West Bengal (2018 onwards).
  10. Member, Twinning R&D Environ. Biotech, Dept. Biotech., New Delhi (2017-21).
  11. Member, TAC, Indian Statistical Institute, Kolkata (2016 onwards).
  12. Member, National Programme on Carbon Sequestration Research, New Delhi (2015-20).
  13. Member, CSA Technology Identification & Prioritization, TIFAC, New Delhi (2020 onwards).
  14. Member, Board of Studies, MPKV, Rahuri, Maharashtra (2020 onwards).
  15. Member Expert Committee, CCP-SPLICE Division, DST, New Delhi (2020 onwards).
- **Recognition in teaching and as resource person**
  1. Certificate for Excellence in Teaching from Indian Agricultural Research Institute, New Delhi in 2000, 2001 and 2003.
  2. Delivered keynote and lead talks in more than 150 national and international conferences.
- **Best paper award**
  1. Best paper award by Fertilizer Association of India, New Delhi (2019).
  2. Best paper award of the Third International Agronomy Congress (2012).
  3. Best paper award of the Indian Science Congress Association (2001).
- **Member of Professional Societies**
  1. Indian National Science Academy, New Delhi
  2. National Academy of Sciences, India; Allahabad
  3. National Academy of Agricultural Sciences, New Delhi
  4. Indian Science Congress Association, Kolkata
  5. West Bengal Academy of Science and Technology, Kolkata
  6. Indian Society of Soil Science, New Delhi
  7. Indian Society of Agronomy, New Delhi
  8. Society for Agricultural Professionals, Kanpur
  9. Indian Climate Congress, Bhubaneswar
  10. Association of Rice Research Workers, Cuttack
  11. Society for Conservation of Nature, New Delhi
  12. Society for Advancement of Rice Research, Hyderabad