

Himanshu Pathak

**Secretary, Department of Agricultural Research and Education (DARE) &
Director General, Indian Council of Agricultural Research (ICAR), Govt. of India**

Leading one of the world's most extensive agricultural research, education, and extension systems, consisting of 113 research institutions, 76 universities, 731 Farm Service Centres, 6500 scientists, and 17000 administration and technical staff with an annual budget of 1600 million US\$.

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Google scholar: <https://scholar.google.co.in/citations?user=B1Ua380AAAAJ&hl=en>

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- 1. Date of Birth:** February 2, 1965
- 2. Areas of Specialization:** Climate Change, Soil Science
- 3. Work Experience:** 31 years

4. Education

- 1) BSc (Ag) in 1986 from Banaras Hindu University, Varanasi, India. Grade 4.0/4.0 (OGPA), rank number 1 in the class.
- 2) MSc in 1988 from Indian Agricultural Research Institute, New Delhi with OGPA 3.8/4.0.
- 3) PhD in 1992 from Indian Agricultural Research Institute, New Delhi. Grade 4.0/4.0 (OGPA), rank number 1 in the class.

5. Professional History

- 1) Secretary, DARE & Director General, ICAR (2022 onwards)
- 2) Chairman, Agricultural Scientist Recruitment Board, New Delhi (2022-23)
- 3) Director, ICAR-National Institute of Abiotic Stress Management, Maharashtra (2020-22).
- 4) Director, ICAR-National Rice Research Institute, Odisha (2016-20).
- 5) Principal Scientist, Indian Agricultural Research Institute (IARI), New Delhi (2009-16).
- 6) Professor, Discipline of Environmental Sciences, IARI (2013-16).
- 7) Co-Facilitator, Rice-Wheat Consortium, (IRRI)-India, New Delhi (2006-09).
- 8) Humboldt Fellow, Institute of Meteorology and Climate Research, Germany (2004-06)
- 9) Senior Scientist, IARI (2001-04), Scientist, IARI (1992-2001).
- 10) Visiting scientist IRRI, Philippines and CSIRO Land and Water, Australia.
- 11) Participated in more than 70 international symposia/conferences in 27 different countries.

6. Post-doctorate Experience and Training

- 1) University of Essex, United Kingdom (1996-97).
- 2) Institute of Meteorology and Climate Research, Germany (2004-05).
- 3) Management Development Programme, NAARM, Hyderabad, India (2014).
- 4) Executive Development Programme, NAARM, Hyderabad, India (2016).
- 5) Advances in Soil Science for Maintenance of Soil Health, PAU, Ludhiana (1993).
- 6) GIS & Remote Sensing in Management of Land & Water Resources, IARI (1995).

- 7) Modelling Soil Fertility, IRRI, Philippines (1999).
- 8) Land use planning for mitigating GHG emission, IMK, Germany (2004).
- 9) Emission of greenhouse gases from soil, University of Essex, UK (1996).
- 10) Use of Isotopes and Radiations in Soil-Plant Relationships, IARI, New Delhi (1998).
- 11) Modelling Growth and Yield of Crops, IARI, New Delhi (2001).
- 12) Agricultural Research Project Management, NAARM, Hyderabad (1992).

7. Teaching, Student Guidance and Lead Speaker

- 1) Chairman of 4 MSc and 3 PhD students at IARI, New Delhi.
- 2) Co-Chairman of 19 Post Graduate students in various Disciplines of Agricultural Sciences.
- 3) Advisory Committee Member of 40 students in various Disciplines of Agricultural Sciences.
- 4) Teaching MSc and PhD students since 1993 at IARI, New Delhi.
- 5) Received Certificate for Excellence in teaching at IARI, New Delhi.
- 6) Delivered lead talks in more than 150 national and international conferences.

8. International Experience

- 1) Humboldt Fellow, Institute of Meteorology and Climate Research, Germany (2004-05).
- 2) Visiting Scientist, International Rice Research Institute, Philippines (1999 and 2001).
- 3) Visiting Scientist, CSIRO Land and Water, Griffith, Australia (2003).
- 4) BOYSCAST Fellow, University of Essex, United Kingdom (1996-97).
- 5) Co-Facilitator, Rice-Wheat Consortium, IRRI-India (2006-09).
- 6) Coordinator of Department of Agriculture Research and Education, Govt. of India in the United Nation Framework Convention on Climate Change (2011-2015).
- 7) Resource person, Haramaya University, Ethiopia (2017-18).
- 8) Participated in more than 80 international meetings and conferences in 30 countries.

9. Publications and citation impacts

- 1) Published more than 200 research papers, 50 review papers, 40 technical bulletins, 35 popular articles, 9 policy papers, 90 book chapters and 20 books.
- 2) h-index 80 and i10-index 251 with more than 24,400 citations (Google scholar) in international literature.
- 3) Identified among the top 2% of global scientists in agriculture by Stanford University, USA in 2022 and 2023.
- 4) Ranked No. 365 in the world and No. 5 in India in Plant Science & Agronomy by Research.com.

10. Awards and Recognitions

A. Fellowship of Academies

- 1) Fellow, National Academy of Agricultural Sciences (NAAS), India (2007).
- 2) Fellow, West Bengal Academy of Science and Technology, India (2013).
- 3) Fellow, Indian National Science Academy (INSA), India (2014).
- 4) Fellow, National Academy of Sciences, India (NASI) (2016).
- 5) Fellow, Indian Climate Congress, Bhubaneswar, Odisha (2018).
- 6) Honorary Fellow, Indian Society of Soil Science, New Delhi (2023).
- 7) Honorary Fellow, Confederation of Horticulture Associations of India, New Delhi (2023).
- 8) Honorary Fellow, Indian Society of Agricultural Engineers, New Delhi (2023).
- 9) Honorary Fellow, Indian Society of Agroforestry, Jhansi (2023).

B. International Awards and Recognitions

- 1) BOYSCAST Fellowship of Dept. of Science & Technology, Govt. of India (1996).
- 2) Alexander von Humboldt Fellowship of Germany (2004).
- 3) Outstanding Administrative Support Award, IRRI, Philippines (2007).
- 4) Lead Author of the Inter-Governmental Panel on Climate Change (IPCC) 5th Assessment Report (2011-2014).
- 5) Coordinator for United Nations Framework Convention on Climate Change, Ministry of Agriculture and Farmers Welfare, Govt. of India (2011-2015).
- 6) Lead Author, Refinement to the IPCC Guidelines for National Greenhouse Gas Inventories (2017-2019).
- 7) Reviewer, IPCC 6th Assessment Report (2022).
- 8) Award of Appreciation, 6th International Rice Congress, Manila, the Philippines (2023).

C. National Awards and Recognitions

- 1) Doctor of Science (*Honoris Causa*) by Amity University, Chhattisgarh (2024).
- 2) Doctor of Science (*Honoris Causa*) by Uttar Banga Agricultural University, West Bengal (2023).
- 3) Dr. D Sundaresan Memorial Award, ICAR-National Dairy Research Institute, Haryana (2023).
- 4) Dr. NS Randhawa Memorial Award, NAAS (2021).
- 5) Dr. RV Tamhane Memorial Award of by the Indian Society of Soil Science (2021).
- 6) Rafi Ahmed Kidwai Award of Indian Council of Agricultural Research (2019).
- 7) Platinum Jubilee Award Lecture of ISCA (2018).
- 8) Krushi Gourav Award, Orissa Krushak Samaj, Odisha (2017).
- 9) Silver Jubilee Commemoration Medal of INSA (2016).
- 10) Society of Agricultural Professional Excellence Award (2016).
- 11) Prof. SK Mukherjee Commemoration Award of ISCA (2012).
- 12) Recognition Award of NAAS, India (2011).
- 13) Dr. BC Deb Memorial Award of ISCA (2001).
- 14) Golden Jubilee Young Scientist Award, Indian Society of Soil Science (1998).
- 15) Young Scientist Award of Indian Science Congress Association (1994).

D. President/Convener of Academies/Professional Societies

- 1) President of National Academy of Agricultural Sciences, New Delhi (2023 onwards)
- 2) President, Indian Society of Soil Science (2024 onwards).
- 3) President of Association of Rice Research Workers, Cuttack, Odisha (2018-21).
- 4) President of Agriculture and Forestry Sciences Section of ISCA (2007).
- 5) Executive President of Society for Conservation of Nature, New Delhi (2016-22).
- 6) Vice-President, Society for Advancement of Rice Research, Hyderabad (2017-21).
- 7) Convener, Pune Chapter, National Academy of Agricultural Sciences (2021).
- 8) Treasurer, National Academy of Agricultural Sciences (NAAS), 2010-2014.

E. Editor of Journals

- 1) Indian Journal of Agricultural Sciences, ICAR, New Delhi (2018-2022).
- 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).

F. Association with Academic and Policy-framing Bodies

- 1) Chairman, G20-Meeting of Agricultural Chief Scientists (MACS), Varanasi, India (2023).

- 2) Chairman, International Water Management Institute-ICAR Steering Committee (2022 onwards).
- 3) Member of CGIAR System Council (2022 onwards)
- 4) Vice-Chair of Governing Board of ICRISAT, Hyderabad (2022 onwards).
- 5) Chairman, Research Council of CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow (2022 onwards).
- 6) Chairman, Project Management Committee on National Agric. Higher Education Project, ICAR (2022 onwards).
- 7) Chairman, Food and Agriculture Division Council, Bureau of Indian Standards, M/o Consumer Affairs, Food & Public Distribution, New Delhi, (2022 onwards).
- 8) Chairman, Research Council (RC) CSIR Laboratory, CSIR HQ, Anusandhan Bhawan, New Delhi, (2022 onwards).
- 9) National Policy on Marine Fisheries, Dept. of Animal Husbandry, Dairying & Fisheries, New Delhi, (2022 onwards).
- 10) Chairman, Global Technology Watch Group, TIFAC, DST, New Delhi (2018-2021).
- 11) Chairman, Controlled Release Fertilizer in India, TIFAC, DST, New Delhi (2020-21).

G. Member of Academies/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