

RESEARCH SCIENTIST EXPERIENCE (+8 years after PhD):

- **Product Selection Lead-Rice** in Syngenta India Limited, Hyderabad (15-02-2016 to till now)
- **Special Project Scientist-Plant Breeding** in IRRI-South Asia Hub, CGIAR, Hyderabad (26-11-2012 to 30-11-2015)
- **Research Associate** in National Bureau of Plant Genetic Resources, ICAR, New Delhi (14-09-2011 to 18-08-2012)
- **Senior Research Fellow** in Indian Agricultural Research Institute, ICAR, New Delhi (15-04-2011 to 09-09-2011)
- **Senior Research Fellow** Central Rice Research Institute, ICAR, Hazaribag (31-12-2010 to 15-2-2011)

EDUCATIONAL BACKGROUND:

Ph.D. in Agriculture, Plant Breeding and Genetics, Jawaharlal Nehru Agriculture University, ICAR, Jabalpur, Madhya Pradesh, India, 8th Dec. 2010, OGPA: 7.69 out of 10.00

M.Sc. in Agriculture, Genetics and Plant Breeding, Bundelkhand University, Jhansi, Uttar Pradesh, India, 2004, Percentage: 75.00%

B.Sc. in Botany and Chemistry, Poorvanchal University, Jaunpur, Uttar Pradesh, India, 1999, Percentage: 59.94%

Post Graduate Diploma in Technology Management in Agriculture, National Academy of Agricultural Research Management, ICAR and Hyderabad University, Hyderabad, Andhra Pradesh, India, 2015, 71.0%

Certificate Course in Intellectual Property Rights and Information Technology in the Internet Age, Indian Law Institute (Deemed University), New Delhi, India, 2011, 76.5%

THESIS/ ACADEMIC RESEARCH:

Doctoral Thesis:

Thesis title: “**Biometrical and Molecular Characterization of yield attributing traits in Rice Recombinant Inbred Lines derived from JNPT-40-01 X HMT**”

Master’s Thesis:

Thesis title: “**Genetic Improvement in foliage yield and its quantitative and qualitative traits through different selection parameters in vegetable Amaranth (*A. tricolor*)**”

PGD-TMA Project work:

Project work title: “**Contemplation of Intellectual Property Rights for Geographical Information Systems (GIS) and Remote Sensing (RS) in Agriculture Research**”.

FELLOWSHIPS/ SCHOLARSHIPS:

- **ISRAEL MASHAV FELLOWSHIP-2009** for training programme at **Hebrew University of Jerusalem, Rehovot, Israel.**
- **SCI LONDON TRAVEL FELLOWSHIP-2009** by Society of Chemical Industry, London for attending International Seminar at **Hebrew University of Jerusalem, Rehovot, Israel.**

- **CHINA-MST FELLOWSHIP-2009** for training programme at **Supervision and Testing Centre for Virus Free Seed Potatoes Quality, Harbin, China.**
- **PUBLONS PEER REVIEW AWARD 2018** for placing in the top 1% of reviewer in the Plant & Animal Science on Publons' global reviewer database, determined by the number of peer review reports performed during 2017-18

PROFESSIONAL TRAINING/ WORKSHOP:

Within Syngenta:

- **Breeding Beyond the Horizon** organized by APAC Product Development Conference at Millennium Hilton, Bangkok, Thailand (20-24 June, 2016)
- **Project, Program and Portfolio Management Learning Map** organized by 3PM Academy, Syngenta, Basel, Switzerland at Syngenta Technology Centre, Nuthankal, Hyderabad, India (30 Nov, 2016)
- **Flawless Consulting Skills – Contracting** organized by Flame Centre, Singapore at Syngenta City Office, Hyderabad, India (6-7 Feb, 2018)
- **Commercial Concepts for Agronomy** organized by Market Edge, Wilmington, DE, USA at Syngenta City Office, Hyderabad, India (16-18 Apr, 2018)

International:

- **Biotechnology in Agriculture in a World of Global Environmental Changes** organized by Division for External Studies of Israel (MASHAV) at Robert H. Smith, Faculty of Agriculture, Food and Environment, **Hebrew University of Jerusalem, Rehovot, Israel** (17th Feb to 18th Mar 2009 – 30 days)
- **International Training Workshop on Potato Disease Detection Techniques** organized by Ministry of Agriculture of the People Republic of China at **Supervision and Testing Centre for Virus Free Seed Potatoes Quality, Harbin, China** (21st Aug to 9th Sep 2009 – 21 days)

National:

- **CIMAP Winter Training on Techniques and Tools of Biotechnology and Bioinformatics** organized by Central Institute for Medicinal and Aromatic Plants, CSIR, Lucknow, U.P. (20th Jan to 18th Feb 2008 – 30 days)
- **Bioinformatics Research and Application** organized by DBT-GOI, New Delhi at BIF, Department of Biochemistry, University of Lucknow, Lucknow, U.P. (16th to 18th Feb 2010 – 3 days)
- **Wheat Phenotyping Workshop** organized by CIMMYT-NBPGR, National Bureau of Plant Genetic Resources, New Delhi (26th to 30th Mar 2012 – 5 days)
- **Data Management and Statistical Analysis Training** organized by IRRI-South Asia Rice Breeding Hub, ICRISAT, Patancheru, Andhra Pradesh (18th to 24th Apr 2013 – 7 days).
- **Summer School on Geospatial Technologies** organized by DST-GOI, New Delhi at Chitkara University, Solan, Himanchal Pradesh (21th Jul to 10th Aug 2015 – 21 days).

Research Publications:

Book Chapter:

- **Development of Core Set of Wheat (*Triticum spp.*) Germplasm Conserved in the National Genebank in India (2015)** Manoranjan Dutta, B.S. Phogat, Sandeep Kumar, Naresh Kumar, Jyoti Kumari, **Avinash C. Pandey**, T.P. Singh, R.K. Tyagi, Sherry R. Jacob, Kalyani Srinivasan, I.S. Bisht, M. Karale, Mamata Yadav, Pankaj Sharma, Geeta Kumari, Tariq Aftab, Y.S. Rathi, Amit K. Singh, Sunil Archak, K.V. Bhat, D.C. Bhandari, Y.P.S. Solanki, Dhiraj Singh, and Kailash C. Bansal, **Chapter 4; Advances in Wheat Genetics: From Genome to Field**, Proceedings of the 12th International Wheat Genetics Symposium, Book Part II, 33-45 DOI: 10.1007/978-4-431-55675-6_4

Research Papers:

- **Diversity in phenotypic and nutritional traits in vegetable amaranth (*Amaranthus tricolor*), a nutritionally underutilised crop** (2010) S. Shukla, A. Bhargava, A. Chatterjee, **A. C. Pandey** and B. K. Mishra, Journal of the Science of Food and Agriculture **90**: 139–144.
- **Genetic interrelationship among nutritional and quantitative traits in the vegetable amaranth (*Amaranthus tricolor* L.)** (2010) S. Shukla, A. Bhargava, A. Chatterjee, **A. C. Pandey** and A. Kumar, Crop Breeding and Applied Biotechnology **10**:16-22.

Manual Chapters/ Review Articles:

- **Molecular Markers: Application in Varietal Identification and Genetic Purity** (2009) N. Saini, N. Tripathi and **A. C. Pandey**, ICAR sponsored Winter School – “Recent Advances in Seed Production and Supply Systems” (Jan. 21- February 10), 210-214.
- **Recent Advances in DNA Fingerprinting** (2009) R. S. Shukla and **A. C. Pandey**, ICAR sponsored Winter School – “Recent Advances in Seed Production and Supply Systems” (January 21- February 10), 286-298
- **Importance of Seed in Agriculture Production and Supply System** (2009) P. K. Moitra and **A. C. Pandey**, ICAR sponsored Winter School – “Recent Advances in Seed Production and Supply Systems” (January 21- February 10), 299-305

CONFERENCE/ POSTER PRESENTATION:

International:

- **Rice genotypes suitable for dry direct seeded conditions in India** (2014) S. Reddy, S. Mangat, **A. Pandey**, S. Surender, S. Suresh, S. Parsuram, M. Shivayogayya, M. Ramesha, R. Mugaludi, IRC14-0420 02a. *Breeding informatics and multi-environment testing* “The 4th International Rice Congress (IRC2014)” Bangkok, Thailand, 27 Oct. - 1 Nov. 2014
- **Phenotyping of wheat germplasm for tolerance to terminal heat stress** (2014) K. C. Bansal, J. Kumari, S. Kumar, M Dutta, R.K. Tyagi, B.S. Phogat, **A. C. Pandey**, T. P. Singh, N. Kumar, A. K. Trivedi, S. Kumar, C. Viswanathan, M. Karale, P. Sharma, V. K. Singh, R. K. Sharma, I. S. Bisht, M. Yadav, J. Kumari, G. Kumari, S. Yadava, K. Kant, S. R. Jacob, Radhamani, K. Srinivasan, B. S. Panwar, R. K. Sharma, K. K. Gangopadhyay, T. V. Prasad, M. Singh, S. Archak, A. K. Singh, Parimalan, T. K. Mondal, L. Arya, M. Verma, K. V. Bhat, D. C. Bhandari, D. K. Das, J. Kumar, Shalini, V. Tyagi and Y. S. Rathi “3rd International Plant Phenotyping Symposium - Phenotyping For Agriculture Sustainability”, Chennai, India, 17-19 Feb. 2014
- **Evaluation of 21000 wheat accessions conserved in the national genebank in India for tolerance to terminal heat stress** (2013) K.C. Bansal, M. Dutta, J. Kumari, **A. C. Pandey**, T.P. Singh, S. Kumar, A.K. Trivedi, B.S. Phogat, S. Kumar, C. Viswanathan, N. Kumar, P. Sharma, V.K. Singh, T. Aftab, R.K. Sharma, R.K. Tyagi, I.S. Bist, K.K. Gangopadhyay, T.V. Prasad, M.

Singh, B.S. Panwar, M. Yadav, J. Kumari, S. Jacob, K. Srinivasan, M. Karale, A. Katiyar, S. Smita, S. Archak, A.K. Singh, L. Arya, M. Verma, K.V. Bhat, D.C. Bhandari, V. Tyagi and Y.S. Rathi, “**The 12th International Wheat Genetics Symposium**”, Pacifico Yokohama, Japan, 8-14 September.

- **Development of core set of wheat germplasm conserved in National Genebank in India (2013)**
M. Dutta, B.S. Phogat, S. Kumar, N. Kumar, J. Kumari, **A.C. Pandey**, T.P. Singh, R.K. Tyagi, S. Jacob, K. Srinivasan, I. S. Bist, M. Karale, P. Sharma, T. Aftab, Y.S. Rathi, A. Singh, S. Archak, K.V. Bhat, D.C. Bhandari, Y.P.S. Solanki, D. Singh, A. Katiyar, S. Smita and K. C. Bansal, “**The 12th International Wheat Genetics Symposium**”, Pacifico Yokohama, Japan, 8-14 September.

PEER REVIEWER – RESEARCH JOURNALS: Publons Verified (<https://publons.com/a/1196077>)

- Performed more than 150 scientific manuscripts from different crop improvement topics and crops for reputed journals (including Nature, PLOS, MDPI, Frontier, Elsevier, Springer, Willey, Taylor and Francis, Mary Ann Liebert Inc and other open access publications) where many manuscripts had successfully published after revision of my reviewer comments.

ACADEMIC/ RESEARCH REFERENCES:

Research Advisor:

- **Rajeev Kumar Varshney**, Director, Grain Legumes, International Crops Research Institute for the Semi-Arid Tropics, CGIAR, Patancheru, India Pin - 502 324
+91-4030713305, r.k.varshney@cgiar.org

Ph.D. (Ag.) Thesis Advisor:

- **Surapanani Koteswara Rao**, Vice Chancellor
Rajmata Vijayaraje Scindia Krishi Vishwavidyalaya, ICAR, Gwalior, M.P., India, Pin 474 002
+91-9425384072, skrao_jnau@yahoo.co.in

M.Sc. (Ag.) Thesis Advisor:

- **Sudhir Shukla**, Principal Scientist & Head
Genetics and Plant Breeding Division, National Botanical Research Institute, CSIR, PB No. 436, Lucknow, U.P., India 226 001
+91-9453175659, s_shukla31@rediffmail.com