

Academic Credentials of Jai Prakash Jaiswal in Teaching, Research and Extension

1. Professional experience

- Currently contributing as Professor in the Department of Genetics & Plant Breeding at GBPUA&T, Pantnagar since May 6, 2009. Prior to joining GBPUA&T as Associate Professor on May 6, 2003, served U.P. Council of Agricultural Research (UPCAR), Lucknow from Nov 11, 1992 to May 5, 2003 as Scientific Officer (Plant Breeding), and M/s Mahendra Hybrid Seeds Co. Ltd., Jalna (MS) from 15.11.1990 to 31.10.1992 as Assistant Breeder cum Quality Control Officer.

2. Professional responsibilities and contributions

2.1 Teaching, student guidance & course curriculum development

- Courses taught to UG (B.Sc. Ag. & B. Tech Biotech), M.Sc. Ag and Ph.D. students offered by the department of Genetics & Plant Breeding since 2003.
- Students guided for thesis research: Guided 12 students for Ph.D. and 16 for master's degree programme in Genetics & Plant Breeding as major guide, and co-guided about 50 students for their masters and doctoral thesis research across the discipline.
- Contributed in the development and design of one new course and in the revision of 3 existing courses as per ICAR guidelines.

II. Research

- **Intellectual properties**
 - **Products: Developed 15 varieties of bread wheat and one variety of barley** for their cultivation in different growing situations in hills and plains.
 - **Novel Germplasm registered with ICAR-National Bureau of Plant Genetic Resources: 14**
 - **Extant varieties registered** with Protection of Plant Variety & Farmers Right (PPV&FR) authority: 10
 - **Genetic stocks developed** rich in micro-nutrients (Zn and Fe), high grain protein content, other quality traits, resistance to **Ug99 of stem rust** and **blast**, and possessing multiple traits: >50
- **Germplasm evaluated:** >5000 (indigenous & exotic) for agronomic traits, and yellow and brown rusts.
- **Research projects mobilized with external funding:** 11 (Funded by DBT, ICAR-NBPGR; BARC, Life Sciences Research Board, USAID/BIRAC/DBT and CIMMYT, Mexico). **Completed:** 10, **Ongoing:** 1
- **Established molecular markers lab** for the precise transfer and pyramiding of genes for rust resistance in wheat, detection of QTLs for climate resilient traits and allele mining in indigenous and exotic germplasm resources.

III. Extension

- Coordinated the conduct of front line demonstrations (FLDs) of wheat for the transfer of latest technologies to the farmers as P.I. from 2013 to 2022 and as Co-PI from 2003 to 2013.
- Published technical bulletins, folders & popular articles on package of practices of wheat and other technologies, and delivered Radio talk and lectures in training programmes organized by the Directorate of Extension Education and other agencies for the farmers.

3. Relevant Trainings

- Participated in various national and international training programmes on different aspects organized at International Centre for Maize and Wheat Improvement (CIMMYT), Mexico; ICRISAT, Patanchuru, ICAR-NAARM, Hyderabad, ICAR-IARI, New Delhi, ICAR-NRCPB, New Delhi, ICAR-IIWBR,

Karnal, National Institute of Agricultural Extension Management (MANAGE), Hyderabad, and PAU, Ludhiana.

4. Publications

- **Research papers in peer reviewed journals:~ 90**
 - *In International Journal with impact factor (or NAAS rating above 6.0): 44*
 - *Research papers in Scopous Indexed Journals: 61*
- Edited Books: 4, Compendium: 2, Chapters in Edited Books: 10, Research/technical bulletins: 7
- Conference papers: >50, Popular articles: ~40, Technical Reports: 12, Sequence registered with NCBI: 6
- Current Google Scholar Citation: 1688, i Index: 21, H index: 34

5. Awards/ Honours/Fellowships/Scholarships

- *Awards with national level notifications/by national agencies:*
 1. **8th Dr. V.S. Mathur Memorial Award 2022** by the Indian Society of Genetics & Plant Breeding (ISGPB), NAAS Complex, New Delhi.
 2. **Dr. S. Radhakrishnan Best Teacher-Researcher Award 2021** by the Association of Indian Universities (AIU) and GBPUAT, Pantnagar.
 3. **Dr. M.V. Rao Memorial Award 2019** by the Society for Advancement of Wheat & Barley Research, ICAR-Indian Institute of Wheat & Barley Research (IIWBR), Karnal.
 4. **Dr. R.B. Ekbote Award 2019** by the Maharashtra Association for the Cultivation of Science (MACS), Agharkar Research Institute (ARI), Pune.
 5. Selected for the **Leadership for Academicians Programme (LEAP II-2019)** through national notification by the Ministry of Human Resource Development (MHRD), GoI under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching.
 6. **Key Note Speaker on VII Rao Bahadur Dr. Ram Dhan Singh Memorial Lecture** at CCS HAU, Hisar on May 9, 2022
 7. **Member, Expert Working Group (EWG)** on Global Wheat Germplasm Conservation and Use Community, Wheat Initiative, Berlin, Germany w.e.f. June 2022 contd....
 8. **Member, Board of Trustee** for “Wheat Research & Technology Fund”(WRTF)of ICAR- Indian Institute of Wheat & Barley Research (IIWBR) for a 5 year period (2017-2022).
 9. **External Expert in Academic Council** of Kumaun Univ. Nainital for 3 years (1.5.2023-30.4.2026).
 10. **Invited by CIMMYT, Mexico** to participate in the 1st International Wheat Congress held in Saskatoon, Saskatchewan, Canada, July 21 – 26, 2019; 9th International Wheat Conference held in Sydney, Australia, 20-25 September 2015; to participate in WHEAT Global Partner Meeting, Istanbul, Turkey on Dec 8-9, 2014; to participate in the Annual Review & Work Plan Meeting on BMZ and CSISA Wheat breeding (Objective 4), 10-14 September 2014, Kathmandu, Nepal; to participate in the Annual Review Meeting on CSISA Wheat breeding (Objective 4), 1-4 September 2015, Karnal, India.
 11. Visited Univ. of Agronomic Sci. and Vet. Medicine, Bucharest, Romania under **Faculty Exchange programme** under World Bank funded IDP-NAHEP, Pantnagar, Oct 6-13, 2022.
 12. **Visiting scientist to CIMMYT, Mexico**, Sept 1 to Oct 12, 2007 (nominated by Indian Council of Agriculture Research, New Delhi).
- *Fellowships with national notification*
 13. **SAWBAR Elected Fellow 2022** by the Society for Advancement of Wheat and Barley Research, ICAR- IIWBR, Karnal.

14. **ISGPB Elected Fellow 2017** by the Indian Society of Genetics & Plant Breeding (ISGPB), IARI, New Delhi.
15. **Dr. K.S. Krishnan (Deptt. of Atomic Energy) Senior Research Fellowship** awarded by Bhabha Atomic Research Centre (BARC), Mumbai for the Ph. D. thesis research.

- College/University level awards/honours/appreciations

16. Dr. B.B. Singh Outstanding Scientist Award 2019 by GBPUAT, Pantnagar.
17. Faculty Excellence Award 2013, 2022, 2023, 2024. Appreciation letter by the Vice-chancellor for the release and notification of wheat and barley varieties.
18. Member, Academic Council, GBPUAT, Pantnagar w.e.f. Feb 1, 2023.

- Merit certificates and scholarship

19. University merit certificates and Bursary scholarship during graduation programme for the year 1981-82 and 1982- 83.

6. Students' achievements:

- Four Ph.D. and one M.Sc. Ag. students were selected in ARS services.
- Two have been honoured with **Young Scientist Award** by Uttarakhand Council of Science and Technology (UCOST).
- One received best Ph. D. thesis award, one student was PDF at IRRI, Philippines now he is scientist at IRRI-South Asia Regional Centre, Varanasi.
- Several received Oral and Poster awards in different conferences/symposia/Seminar.

7. Visits to overseas institutions

- International **Consultant to FAO** (on actually-employed basis) in Myanmar, March 10 –April 9, 2001.
- Visiting scientist to CIMMYT, Mexico, Sept 1 to Oct 12, 2007.
- Official visits to St. Petersburg, Russia (2009), Yokohama, Japan (2010); CIMMYT, Kathmandu, Nepal (2014); Istanbul, Turkey (2014); Sydney, Australia (2015); Saskatoon, Canada (2019); University of Pennsylvania, the USA (2020); and University of Agronomic Sciences and Veterinary Medicine, Bucharest, Romania (2022) to participated in different international conferences/meetings.

8. Administrative experiences

- **Director, Communication**, GBPUAT, Pantnagar w.e.f. Feb. 1, 2023 Contd...
- **Director, Extension Education**, GBPUAT, Pantnagar from July 5, 2023 to Dec. 10, 2023.
- **Director, State Agricultural Management & Extension Training Institute (SAMETI), Uttarakhand: 7.7.2023 – 10.12.2023**
- **Prof. & Head**, Deptt. of Genetics & Plant Breeding, GBPUAT, Pantnagar from 1.8.2023 to 4.6.2024.
- **Incharge** Seed Testing Laboratory from 1.8.2023 to 4.6.2024.
- **Secretary and Chief Coordinator**, Alumni Alma mater Advancement Association (4A), Pantnagar w.e.f. Oct. 6, 2021 contd....
- **Nodal Officer/In-charge**, Pantnagar Centre for Plant Generic Resources (PCPGR) w.e.f. Aug 1, 2018 contd...
- **Project Coordinator/In-charge**, AICRP on Wheat & Barley Programme w.e.f, May 17, 2019 contd...
- Project Leader, Univ. AICRP on Wheat & Barley Breeding Programme w.e.f. Nov. 11, 2013 contd...
- Project leader, Wheat FLDs
- Warden (Boys hostel Gandhi Bhawan –capacity 207) from July 14, 2004 to July 13, 2007.

9. Contributions in miscellaneous academic activities

- **Contributing in the production of Nucleus and Breeder Seed of Wheat and Barley** and issuing the Breeder's tag of seed produced for different notified varieties in the capacity of Breeder since 2012.
- **Organized trainings/workshops/Review Meetings/ Farmers' Fair/Alumni Meets**
 - Review Meeting of DBT project.
 - Review cum Workshop of USAID/BIRAC funded project.
 - 114th Farmers' Fair and Agro-Industrial Exhibition.
 - National Conference and Exhibition on Millets.
 - PPV&FR Act 2001, IPR Awareness.
 - Alumni meets at College and University level.
- **Chaired and co-chaired technical sessions** and delivered invited/lead lectures in different international and national conferences.
- **Facilitated the signing of MoU** between GBPUAT, Pantnagar and Bhabha Atomic Research Centre (BARC), Mumbai, M/s Crystal Corporation Ltd., New Delhi, ICAR-IIWBR, Karnal and ICAR-IISS, Mau, and with ICAR-NBPGR, New Delhi is in the process.
- **Contributed as Examination Superintendent and Incharge Confidential Room** during Semester final examinations.
- **Contributed as Observer and Invigilator** during University Entrance Examinations.
- **Contributed as reviewer** of reputed international and national journals viz., Frontiers in Genetics, Frontiers in Plant Sciences, PlosOne, Scientific Reports, 3 Biotech, Cereal Research Communication, Plant Genetic Resources, Indian Journal of Genetics & Plant Breeding, Indian Journal of Plant Genetic Resources, Electronic Journal of Plant Breeding etc. Reviewed grant proposals of DBT and Silk Board.
- **Contributed as expert in the panel for** selection/promotion of scientists/technical officers in different institutions viz., ICAR-IIWBR, Karnal; BARC, Mumbai; CCSU, Meerut, NDUAT, Ayodhya etc.
- **Member, Zonal Monitoring Teams** constituted by ICAR-IIWBR, Karnal since 2004.
- **Participated in the review meetings of Task Force of DBT, GoI** constituted for the monitoring of the competitive grant projects under Accelerated Crop Improvement programme of DBT.
- **Nominated by ICAR-NBPGR, New Delhi for the evaluation of germplasm registration proposals** submitted by wheat and barley researchers of different institutions.
- **Contributed as examiner** to facilitate the conduct of M. Sc. and Ph.D. *viva-voce* examination in different institutions viz., ICAR-IARI, New Delhi; BHU, Varanasi; PAU, Ludhiana; CCSHAU, Hisar; Lucknow University; CCSU, Meerut; NDUAT, Ayodhya; SBVPUAT, Meerut; UAS, Dharwad; SKUAST, Jammu; SRTMU, Nanded, LPU, Jalandhar, Amity University, CAU PG campus, Umiam (Meghalaya) etc.
- **Editor-in-chief** of monthly magazine **Indian Farmer Digest** pub by Director, Communication, GBPUAT, Pantnagar w.e.f. July 2023 contd....
- **Editor-in-chief** of monthly magazine **Kisan Bharati** by Director, Communication, GBPUAT, Pantnagar w.e.f. July 2023 contd...
- **Chief Editor Pant Prasara (Quarterly Newsletter)** published by Directorate of Extension Education 7.7.2023 to 10.12.2023.
- **Member of PRT for the Accreditation** of JKK Muniraj College of Agriculture Sciences, TNAU, Coimbatore vide ICAR Office Memorandum No. EQR/Edn./1/88/2021-Accre. dated 21 September 2023.
- **Member of PRT for the Accreditation** of College of Agriculture of LPU, Jalandhar vide ICAR Office Memorandum No. 1/37/2023/EQR/Edn./Accre. Dated 10 Oct 2023.

10. Membership of professional societies (Life membership)

1. Indian Science Congress Association, Kolkata. L-9721, w.e.f. Year 2000

2. Indian Society of Genetics & Plant Breeding, NASC Complex, New Delhi, 7830,3.11.2011.
3. Society for Advancement of Wheat and Barley Research (SAWABR), ICAR-IIWBR, Karnal, LM/0068, 2012
4. Indian Society of Seed Technology,
5. Pantnagar Journal of Research. LM-34, 20.12.2006,
6. National society of Plant Sciences, CCS HAU, Hisar, w.e.f. Year 2008
7. Indian Society of Plant Breeders, TNAU, Coimbatore, LM-277, 12.7.2010
8. Pantnagar Agri Alumni Society (PAAS) of College of Agriculture w.e.f. 2005
9. Alumni Alma mater Advancement Association (4A), Pantnagar (Founder member) w.e.f. 2015.

11. Contributions made at U.P. Council of Agriculture Research (UPCAR) during Nov. 11, 1992- May 5, 2003

- Contributed in the coordinating activities, research projects funding and their evaluation, organizing brain storming sessions, monitoring of NARP project, and projects funded under Sodh Nidhi of UPCAR.
- Contributed in the preparation of package of practices for *Kharif*, *Rabi* and *Zaid* crops of the State of U.P with SAUs scientists and published by Directorate of Agriculture, U.P.
- Facilitated the screening of variety release proposals received from SAUs for the release by SVRC, Uttar Pradesh.
- Contributed in the conduct of multiplication trials of hybrids of sunflower, pearl millet and rice developed by Private Seed Companies, Uttar Pradesh. This not only facilitated the Directorate of Agriculture, Lucknow for the procurement of quality hybrid seed for the State of U.P. but also generated revenue for the UPCAR through testing fee charged from the seed companies. This effort of the undersigned was well recognized by the Directorate of Oil Seeds (ICAR), Hyderabad in its Annual Workshop and recommendation was made to conduct such activity in other state of the country.
- Nominated as a resource person by the Secretary Agriculture, Govt. of Uttar Pradesh for the preparation Strategic Research and Extension Plan (SREP) of 10 districts of U.P. under the World Bank aided Diversified Agricultural Support Project (DASP).
- Nodal Officer, WTO (Nominated by Secretary Agriculture, Govt. of Uttar Pradesh).

12. Contributions made at M/s Mahendra Seeds Co. Ltd., Jalna during 15.10.1990 and 31.10.1992

- Contributed in the conversion of maize inbreds to cytoplasmic male sterile (CMS) lines and restorers with backcrossing.
- Evaluated maize inbreds for general and specific combining ability for their suitability in hybrid development.
- Contributed in conducting grow out test of cotton varieties and hybrids for genetic purity determination (quality control).
