

Dr. Yuvraj Yadav

Associate Professor and Head

School of Agricultural Studies

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SUMMARY

Ph.D. in Seed Science & Technology with extensive expertise in both field and lab experiments. Highly knowledgeable in seed testing, seed production, seed processing, field inspection, and product evaluation trials. Possesses 1.5 years of industrial experience and 8 years of academic experience. A dedicated professional with strong interpersonal skills and solution-oriented thinking, adept at working in multi-cultural and multi-disciplinary environments.

PROFESSIONAL QUALIFICATION

- **Ph.D., Seed Science & Technology**, SHUATS, 2018, Allahabad, India
Ph.D. research work at **National Bureau of Plant Genetic Resources (NBPGR), New Delhi, India**
Advisors: Dr (Mrs.) Lalit Arya & Dr (Mrs.) G R Lavanya
Research Title: Morphological & Molecular Characterization of Kodo Millet Germplasm.
- **Master of Science (M.Sc.), Seed Science & Technology**, 2010, SHIATS, Allahabad, India
Research Title: Studies on Physical, Biochemical, and Yield Parameters of Soybean (*Glycine max* (L) Merr.).
- **Bachelor of Science (B.Sc.), Seed Technology**, Botany & Chemistry, 2007, Dr. BR Ambedkar University, Agra, India

ACADEMIC EXPERIENCE

- **Geeta University, Panipat, India**
Position: Founder Head and Associate Professor
Duration: July, 2022 to till now
Plan and design the curriculum of B.Sc. (Hons.) Agriculture and M.Sc. (Ag) Agronomy
Established school infra and laboratories.
Established agriculture farm and various units like Vermi-compost apiculture, honey bee and mushroom cultivation.
Established net shade house for protected cultivation of the crops.
Generating revenue for the growth and development of the school.
Done extension activities for the adopted villages of the farmers like Kisan Goshthi, Plantation Drive, Short term trainings on application of fungicides, insecticides and herbicides on crops
Delivered lectures in the training programs for the farmers on seed testing.
Assess student's progress throughout the program at various levels along with the staff members.
- **Himalayan College, RIT, Roorkee, India**
Position: Asst. Professor and Dean
Duration: From February, 2021 to July, 2022
Established research farm for the students.
Guided students for organic crop production.
Organized webinars for the students on different topics.
Assess students progress throughout the program at various levels along with the staff members
Placement coordinator

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- **Tula's Institute, Dehradun, India**
Position: Founder HOD and Asst. Professor
Duration: From August, 2017 to January, 2021
Established Department and Laboratories.
Established net shade house for the protected cultivation of the crops.
Assess students progress throughout the program at various levels along with the staff members
Placement coordinator
 - **Achievements**
Organized 6th PSRM: National Conference on Current Trends in Agriculture, Applied and Life Sciences-2024, in collaboration with Plantica, Dehradun
Bharat Harit Kranti Award-2023 Jointly organized by Hindustan Agricultural Research Welfare Society, IIMT University Meerut and supported by Sardar Patel University, MP and ICAR-IISR, UP.
Chief Executive Editor in Rao's Publication and Research Centre. Dehradun
Hindustan Harit Kranti Award-2022, organized by Hindustan Agricultural Research Welfare Society, UP.
Teacher Excellence Award-2021, Organized by Roorkee Institute of Technology, Roorkee, Uttarakhand
Young Scientist Award-2018, Organized by Association of Plant Science Researchers Dehradun, Uttarakhand
Qualified National Eligibility Test (NET), 2017 conducted by ICAR-ASRB, New Delhi.
Chairman of BOS and BOF of the School of Agricultural Studies
Delivered guest lecturers to the farmers and students
Centre Superintendent of Sri Dev Suman University Examination, Uttarakhand
External Practical Examiner of Sri Dev Suman University, Uttarakhand
Member of University **Discipline Committee**
Chief Proctor
Member of **Board of Examination**
Time Table Coordinator of the University
Conducted Short term **trainings, Workshops, Guest Lectures** for the students.
Attended **Ag MOOC Courses**
Established **mushroom cultivation unit, Apiculture unit, Vermicompost unit and research farm in the university**
Educational Visits for the students
Collaboration with **Indian Institute of Remote Sensing (IIRS)** for online training to the students and faculty members
Engaged in question paper setting for the **university examinations both UG and PG courses**
Implementing **outcome based education** in the department and prepared PO's and CO's of B.Sc. Agriculture

PROFESSIONAL SKILLS

- **Computer Proficiency**
Command on application software like- MS Word, Excel, PowerPoint, Molecular analysis and use of software like NTSYSpc-2.10.
 - **Skills in Seed Technology**
Field Evaluation, Product evaluation trials, Field inspection, Grow out test
Maintenance & Inspection of Seed Processing Plant
 - **Laboratory Techniques**
Isolation & Purification of Plant DNA
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Primer Screening (ISSR, SRAP & SCoT)
Gel Electrophoresis
PCR Techniques
Seed Testing (Seed Germination, Physical Purity & Seed Vigour)
Estimation of Genetic Purity (Phenol test in Wheat)
Tetrazolium test (Maize, Soybean, Wheat)

INDUSTRY EXPERIENCE

- **Krishidhan Seeds Private Limited, Jalna, Maharashtra, India**
Location: Jalna, Maharashtra, India
Duration: Feb 2010 to Aug 2011
Position: Executive-QA
Activities Performed
Laboratory: Engaged in seed testing viz., physical purity, germination testing, vigor analysis and genetic purity of cereals, pulses, vegetables & oil seed crops.
Field: Engaged in field inspection of Maize, Pearl millet, Urd bean, Mung bean & Cotton at various locations in India.
GOT Evaluation of Cotton
Product Evaluation Trials of Maize at different locations of Ahmadabad.
Seed Processing Plant: Inspection of processing plant, seed treatment, drying and seed packaging at Jalna, Maharashtra of different vegetable seeds.
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ACADEMIC PROJECT

- **Funded Projects**
Establishment of Static Soil Testing Laboratory for Soil Health Management (STL) submitted to Government of Haryana under the scheme RKVY for the year 2024-2027 as a CO-PI.
Conservation of Organic Farming from Biochar, Hydrogel and Absorbent Polymers for Enhancing Soil Fertility and Crop Productivity submitted to Government of Haryana under the scheme RKVY for the year 2024-2027 as a CO-PI.
- **Research project at ICAR-NBPGR, New Delhi**
Duration:2012-2016
Title: Genotyping & Phenotyping of Kodo Millet Germplasm
The project work was a dissertation in Ph.D. in Seed Science & Technology
The project work involved:
Phenotyping of 96 Indigenous collection of Kodo Millet at SHUATS, Allahabad
Genotyping of 96 Indigenous collection of Kodo Millet with ISSR, SCoT & SRAP markers.
Transferability of Simple Sequence Repeat (SSR) Markers Developed in Finger Millet (20), and Pearl Millet (10) to Kodo Millet.
18 ISSR, 21 SCoT and 05 SRAP Primers designed and found to be polymorphic
Data analysis of phenotypic and genotypic datasets.
Report and Article Writing.
Outcome:
The study revealed that the accessions from Bihar followed by Gujarat, Karnataka, Chhattisgarh and Odisha were more diverse.
IC481746 (Karnataka) and IC482510 (Bihar) found more potential accession for developing superior varieties in kodo millet by using the traits like days to maturity, biomass, straw yield and yield per plant.

PUBLICATIONS/PATENTS

- **Patents**
Published "IOT Based Irrigation with Advanced Sensor System". Application No. 202211065804 A, 2022
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- **Peer Reviewed Papers**

Patil Anjali, Chakroborty Sudip, **Yadav Yuvraj** et al., (2024) Bioremediation strategies and mechanisms of bacteria for resistance against heavy metals: a review. In: Journal, Bioremediation, 2024, DOI:10.1080/10889868.2024.2375204 **(SCOPUS)**.

Yadav Yuvraj, et al., (2023) Nitrogen Use Efficiency: A Comprehensive Review on Cereals with its Scope of Improvement. In: Journal, European Chemical Bulletin, 2023, 12(10), 4533-4544.

Mahjabin, **Yadav Yuvraj**, Kohli P and Lall A M (2023) Effect of Seed Ageing on Biochemical Composition of Rice varieties. In: Journal, International Journal of Biology, Pharmacy and Allied Sciences, 2023, 12(10), <https://doi.org/10.31032/IJBPAS/2023/12.10.7480> **(WoS)**.

Yadav Yuvraj, Lavanya G. R, Arya Lalit, Verma Manjusha & Rajput Richa (2019) Phenotype Based Selection in Kodo Millet (*Paspalum Scrobiculatum* L.) to Identify Elite Accessions. In: Journal, Agricultural Science Digest pp:1-7. **(NAAS: 5.52)**.

Yadav Yuvraj, Mahjabin, Kumar Lokesh, Chaudhary Sachin and Malik Sumira (2018) An Overview on Internet of things (IoT) as a Technological boon for Sustained Agriculture Farming. In: Journal, International Journal of Agriculture Innovations and Research. Volume 7, Issue 1, ISSN (Online) 2319-1473. **(NAAS: 3.99)**.

Paul Pronob J., Lavanya G. Roopa, Babu G. Suresh, **Yadav Yuvraj** and Verma Umakant (2017) Induced Genetic Variability and Divergence through Physical and Chemical Mutagens in M3 Generation of Green gram (*Vigna radiata* L. Wilczek). In: Journal, International Journal of Genetics, ISSN: 0975- 2862 & E-ISSN: 0975-9158, Volume 9, Issue 6, pp.-284-286. **(NAAS: 4.07)**.

Yadav Yuvraj, Lavanya G. R., Pandey Sushil, Verma Manjusha, Ram Chet and Arya Lalit (2016) Neutral and functional marker based genetic diversity in Kodo millet (*Paspalum scrobiculatum* L.) In: Journal, Acta Physiologiae Plantarum pp: 75. **(NAAS: 8.60)**.

Yadav Yuvraj, Lavanya G. R., Singh Vivek, Arya Lalit and Verma Manjusha (2016) Genetic variability and correlation studies for quantitative traits in Kodo millet (*Paspalum scrobiculatum* L.) In: Journal, New Agriculturist, 27 (1): 189-196.

Rathor P Amit, Singh Ashish, Babu Suresh G, Lavanya G R and **Yadav Yuvraj** (2014) Genetic Analysis of Local Land Races and Improved Germplasm of Rice (*Oryza sativa* L.) Under Allahabad Agro-Climatic Conditions. In: Journal, Indian Journal of Applied Research, 4 (8):1-5.

Singh Tej Pratap, Chaurasia A K, Vikram Balaji and **Yadav Yuvraj** (2013) Studies on Performance of early elite rice cultures under directly seeded conditions for yield and quality traits In: Journal, Bioved , International Journal of Life Sciences vol: 24(2).

- **Book Chapters**

Kavya, Mahjabin, Yadav Yuvraj and Gola Shafali (2025) Nanobiotechnology marvels: Unveiling the microbial alchemy of nanoparticle synthesis. In: Book,

Nanoparticle Synthesis and Soil Microbes, Academic Press, Chapter 15, ISBN 9780443216923.

Sharma Rhea, Mahjabin, **Yadav Yuvraj** and Gola Shefali (2024) Smart Hydroponics: Advancing Towards Futuristic Sustainable Agriculture In: Book, Futuristic Trends in Agriculture Engineering and Food Sciences, IIP Series, Volume 3, Book 9, Part 4, Chapter 1, e-ISBN: 978-93-5747-615-7.

Saisri Mushike, Lakra Anjali, Yadav Priyanka and **Yadav Yuvraj** (2019) Climate change consequences on biodiversity of Uttarakhand In: Book, Climate Change and Sustainable Agriculture, S F Publication, ISBN:978-81-939673-1-7.

Arya Lalit, Chauhan Draksha, **Yadav Yuvraj** and Verma Manjusha (2014) Transferability of Simple Sequence Repeat (SSR) Markers Developed in Finger Millet and Pearl Millet to Kodo Millet and Barnyard Millet In: Book, Innovative Approach in Stem Cell Research, Cancer Biology and Applied Biotechnology by Krishi Sanskriti ISBN: 978-93-83083-79-4.

○ **Conference Proceedings**

Verma Saurabh, Singh Awadhesh, Kumar Sachin & **Yadav Yuvraj** (2017). Carbon Capture & Storage Technology: An Approach towards Climate Change: A review. In: Abstract, National Seminar on the Role on Green Energy in Sustainable Future. 10th December, 2017.

Yadav Yuvraj, Mahjabin, Arya Lalit and Lavanya G Roopa (2015) Millets: Future for nutritious food farming and climate change compliant crops: A review. In: Abstract, National Science Congress on Strategic Governance and Technological Advancement for Sustainable Agriculture. June 14th –16th, 2015, pp: 297.

Verma R, **Yadav Yuvraj**, Singh Vivek, Gavel Niwedita, Lavanya G Roopa and Arya Lalit (2015) Variability Studies for Grain Yield in Indigenous Collection of Kodo Millet (*Paspalumscrobiculatum* L.) Genotypes. In: Abstract, National Science Congress on Strategic Governance and Technological Advancement for Sustainable Agriculture. June 14th – 16th, 2015, pp: 106.

Pant Anumeha, Chaurasia A.K., Paul Pronob Jyoti and **Yadav Yuvraj** (2011) Effects of Storage Conditions on Seed Vigour and Viability on Different Genotypes of Chickpea (*Cicer arietinum* L). In: Abstracts, National Symposium on Emerging Trends in Plant Sciences. March 3rd - 4th, 2011, pp: 15.

Singh S K, Lavanya G Roopa, Bhat K V, Babu G Suresh, Reddy P Ashok, Paul Pronob Jyoti and **Yadav Yuvraj** (2011) Genetic Diversity Based on Microsatellite Markers in Mungbean Mutant Lines. In: Abstract, National Symposium on Biodiversity and Food Security: Challenges & Devising Strategies. Dec 10th -11th, 2011, pp: 96

Anurag P John, Chaurasia A K and **Yadav Yuvraj** (2009) Evaluation of rice hybrids and parents for yield and yield contributing traits and their interrelation with quality traits. In: Abstract, National Symposium on Recent and Global Developments in the Management of Plant Genetic Resources, Dec 17th-18th, 2009, NBPGR, New Delhi.

Pant Anumeha, **Yadav Yuvraj**, Kumar Pushpendra, Chaurasia A K and Anurag P John (2009) Genetic Variability Studies for Seed Vigor Parameters in F2 rice seeds. In: Abstract, National Symposium on Recent and Global Developments in the Management of Plant Genetic Resources, Dec 17th -18th, 2009, NBPGR New Delhi.

Training

- Conducted four days training on “**Hydroponics**” organized by Department of Agriculture in collaboration with ASDC, New Delhi, from 09.06.2022 to 12.06.2022.

**SEMINARS/
SYMPOSIUMS/
TRAININGS/
ATTENDED/
DELIVERED/
CONDUCTED**

- Conducted one day program on “**Career Orientation**” for the students of B.Sc. Ag and Forestry 3rd Yr organized by Himalayan College in collaboration with Rao’s Coaching Institute, Dehradun on 07.06.2022.
 - Conducted one day webinar on “**Seed Testing and Quality Control**”, organized by Department of Agriculture & Forestry on 09 June, 2021.
 - Conducted “**Career Orientation**” Webinar for the students of B.Sc. Ag 3rd Year and Final Year organized by Department of Agriculture & Forestry on 03 July, 2021.
 - Conducted Virtual Session on “**Enhancing genetic diversity through pre-breeding in rapeseed and mustard**” organized by Department of Agriculture & Forestry on 12 July, 2021.
 - Conduction online training on “**Hydroponics**” Jointly organized by Department of Agriculture & Forestry and Rocket Skills, Noida from 26 June, 2021 to 08 August, 2021.
 - Conducted one-month training on “**Organic Mushroom Cultivation**” at Tula’s Institute, Dehradun, organized by department of Agriculture & Forestry.
 - Conducted one day hands on training on “**Safety Measures during Pesticide Use**” at Tula’s Institute, Dehradun, jointly organized by department of Agriculture/Forestry & Parijat Industries India Pvt. Ltd. New Delhi.
 - Conducted one day hands on training on “**Plant DNA isolation**” at Tula’s Institute, Dehradun, jointly organized by department of Agriculture/Forestry & RAPTURE Biotech, Mohali.
 - Attended three days International Webinar cum Workshop on “**Seed Quality Enhancement**” from 22 to 24 September, 2021 organized by Indo-German Cooperation and Seed Sector Development, Sponsored by Ministry of Agriculture and Farnes’s Welfare, Co-organized by ICAR-Indian Agricultural Research Institute, New Delhi and CCSHAU, Hisar, Harayana.
 - Attended Uttarakhand Sate Council for Science & Technology (UCOST) funded five days FDP on “**Effective Business and Research Decision**” from 26 July to 30 July, 2021 organized by Roorkee Institute of Technology, Roorkee.
 - Attended five days FDP on “**Fostering Research & Development in Academic Institutions**” from 21 June to 25 June, 2021 organized by National Institute of Technical Teachers Training & Research, Chandigarh (NITTTR).
 - Attended six weeks Ag MOOC online course on “**Diagnosis of Crop & Stored Pests Grain & their Management**”.
 - Attended two days training programme on “**Issues of Intellectual Property rights, Geographical Indication, Protection of Plant Varieties, Farmers Right and organic farming**” on 26th-27th Nov 2014 jointly organized by UPCAR, Lucknow and SHIATS, Allahabad.
 - Participated in the training course on “**Seed Production, Processing, Quality Control and Storage**” at Knowledge and Study Centre (BKSC), Jalna from 19th-23th July 2011.
- Seminars/Symposiums/Workshops**
- Conducted three days workshops on “**Emerging Trends in Agribusiness & Allied Sciences**” at Tula’s Institute, Dehradun, jointly organized by Plantica-Journal of Plant Science & Department of Agriculture/Forestry.
- Attended a three-day long workshop on “**Scientific Paper Writing**” organized National Academy of Sciences, India at Lucknow from 6th Jan to 8th Jan 2012.
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LANGUAGES KNOWN

Hindi & English

REFERENCES**Mr. Gajanand Biradar**

GM, Seed Processing Plant

Sakata Seeds, Bangalore

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