Rihan Ansari

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SKILLS

- Qualitative research methods
- Quantitative research methods
- Literature reviews
- Experimental study design
- Postgraduate teaching
- Statistical data analysis
- Collaborative research
- Published author
- Skilled in genotyping
- Laboratory and field research
- Communication skills
- Time management
- Problem-solving
- Team building

PROFESSIONAL SUMMARY

Dependable Researcher offers keen attention to detail and excellent work ethic for reliable results. Plans and organises methodically to achieve tasks within strict deadlines. Communicates findings through detailed reports and presentations for increased subject understanding.

WORK HISTORY

Senior Research Fellow (SRF) 07/2019 - Current
Division of Genetic Indian Agricultural Research Institute - New Delhi, India
Project Title: Application of next generation breeding, genotyping and digitalization approaches for improving the genetic gain in Indian staple crops.

- Applied cutting-edge breeding, genotyping, and digitalization methods to enhance genetic gain in key Indian staple crops.
- Spearheaded the integration of digital approaches, optimizing breeding processes and accelerating crop improvement.
- Implemented advanced genotyping techniques to identify and leverage beneficial genetic traits, fostering higher crop productivity.
- Led collaborative efforts with multidisciplinary teams to streamline and advance next-generation breeding initiatives.
- Successfully contributed to the measurable improvement of genetic traits in Indian staple crops, ensuring agricultural sustainability and food security.

Senior Research Fellow (SRF) 01/2016 - 01/2017
National Research Centre on Plant Biotechnology (NRCPB) - New Delhi, India
Project Title: Study on Sclerotinia Sclerotiorum with emphasis on management of Sclerotinia rot.

- Spearheaded a comprehensive study on Sclerotinia Sclerotiorum, innovatively managing Sclerotinia rot in crops.
- Developed and implemented effective strategies, showcasing a measurable reduction in disease incidence.
- Applied advanced molecular techniques (PCR, DNA sequencing) to unravel genetic aspects of Sclerotinia Sclerotiorum.
- Led a multidisciplinary team, executed field trials, and presented impactful findings at conferences and in peer-reviewed journals.
- Translated research outcomes into practical solutions, delivering tangible benefits to farmers and the agriculture sector.
- Shared insights through workshops, contributing to increased awareness and adoption of effective disease management practices.

EDUCATION

Doctor of Philosophy: Biotechnology, Current
Shobhit University – Meerut, India
GPA: Thesis Writing

M.tech: Biotechnology, 09/2013 – 09/2015
The Institute of Integrated Learning in Management – Greater Noida – Distinction
GPA: 71.3%

B.Tech: Biotechnology, 09/2009 – 09/2013
Shobhit University – Meerut, India – Distinction
GPA: 8.39 CGPA

SCIENTIFIC ANALYSIS AND LABORATORY EXPERTISE

- Expertise in parental selection for wheat breeding program.
- Expertise in hybridization through manual emasculation and pollination.
- Expertise in selection of best parent on the basis of heritability from the segregation population.
- Screening of parental lines on the basis of disease like yellow and brown rust.
- Section of parents on the basis of GEBV.
- Formulation of wheat multi location trail with alpha-lattice and Partial replication.
- Data management in field book and BMS. Statistical data analysis by using R.
- Maintenance of germplasm.
- Isolation and Preservation of Fungal Pathogens of Alternaria Species
- Single Spore Isolation of Fungus Culture and Spore Counting by Haemocytometer.
- Morphological Characterization of Fungal Pathogens by Using Phase Contrast Microscope.
- Molecular Characterization of Fungal Pathogens
- DNA isolation from Fungus Mycelium by CTAB method.
- RNA isolation from Wheat plant leaf.
- DNA amplification by Polymerase Chain Reaction (PCR).
  Gradient PCR for particular Annealing Temperature for amplification.
- Gel Electrophoresis/Cloning of PCR Product by the use of pGEMT Vector Ligation, Transformation and Plasmid Isolation.
- DNA Amplification by URP-PCR (Universal Rice Primer) for molecular characterization Scoring and Data Analysis.

Brassica Crop:

- Isolation and Preservation of Fungal Pathogens of Scalerotinia sclerotiorum.
- Screening different germplasms of Brassica and its wild relative Species by Leaf Inoculation and Stem Inoculation Assay to identify Tolerant andResistant source against Scelerotinia sclerotiorum infection.
- Crossing between different germplasms of Brassica and its wild relative Species and Embryo Rescue.

Cell Culture:

- Maintenance of Cerebral Glioma Cell Lines (BMG-1, wild-type p53) by using of DMEM F-12 medium.
- Positron-emission tomography (PET)Scanning to observe metabolic processes in the body as an aid to the diagnosis of disease.
- In-vitro cytotoxicity assay and oxidative mediated apoptosis.

Microbiology:

- Prepared harvested and stored microorganisms as well as perform bio-assays.
- Performed procedures for sterilization and decontamination of equipment's (Laminar Air Flow and Autoclave).

Protein Techniques:

- Detected, isolated, purified, estimated and performed assays (Centrifugation, Titration and pipetting)

- **Performed Southern Blotting, Western Blotting and SDS-PAGE. Cytological Techniques - Gram staining**

Publication

- Book Chapter-Potential Sources of Salt Tolerance in Wheat for Future Breeding (Wild and Cultivated Species) Advance in Genetic and plant Breeding-AkiNik Publications · Feb 12, 2023.

- Trait phenotyping in an ancient Indian landrace of wheat triticum sphaerococcum under optimum, terminal heat stress and deficit irrigation conditiond. Genetic Resources and Crop Evolution. Nov 28, 2023.

- Synthetic hexaploid wheat as a source of variation for the traits specific to conservation agriculture Synthetic hexaploid wheat as a source of variation for the traits specific to conservation agriculture. Indian J. Genetic Plant Breeding · Jan 21, 2023

- Estimation of Gene effects through Generation Mean Analysis and Validation of known markers associated with Zn content in rice through Bulked Segregant Analysis Estimation of Gene effects through Generation Mean Analysis and Validation of known markers associated with Zn content in rice through Bulked Segregant Analysis. Agricultural Mechanization in Asia ·Jul 19, 2022

- Deciphering the environmental impact on spike architectural traits for grain yield consolidation in bread wheat (T.aestivum L.) Deciphering the environmental impact on spike architectural traits for grain yield consolidation in bread wheat (T. aestivum L.). Saudi Journal of Biological Sciences · Jan 15, 2022

- Wheat cultivation and improved varieties for indo gangetic plains of india wheat cultivation and improved varieties for indo gangetic plains of india. Ecofarming e- Magazine for Agriculture and Allied Sciences · Jan 1, 2022

- Deciphering the change in root system architectural traits under limiting and non- limiting phosphorus in Indian bread wheat germplasm Deciphering the change in root system architectural traits under limiting and non- limiting phosphorus in Indian bread wheat germplasm. PLOS ONE · Oct 1, 2021

- Genetic Gain in Yield and Associated Changes in Agronomic Traits in Wheat Cultivars Developed Between 1900 and 2016 for Irrigated Ecosystems of Northwestern Plain Zone of India Genetic Gain in Yield and Associated Changes in Agronomic Traits in Wheat Cultivars Developed Between 1900 and 2016 for Irrigated Ecosystems of Northwestern Plain Zone of India. Frontiers in Plant Science · Sep 23, 2021

- Neuroprotective Effects of Rutin Against Hydrogen Peroxide Induced Oxidative Stress in Cerebral Glioma Cell Line,Int. J. Pharm. Sci. Rev. Res., 25(2), 2014, 304-308.

- Effect of Butylated Hydroxyanisole On Hydrogen Peroxide Induced Oxidative Stress On Cerebral Glioma Cell Line, Asian J Pharm Clin Res, 7(1), 2014.

- Isolation, Identification, and Screening of Alkaline Protease from Thermophilic Fungal Species of Raipur. Int. J. Life. Sci. Scienti. Res., 2018; 4(2): 1627-1633.

References

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