

Sammyia Jannat

Lecturer

Department of Biotechnology, University of Kotli, AJ&K

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Profile

A highly skilled professional with enthusiastic and consistent approach. A science lover who is creative and motivated for learning to achieve the tasks with confidence and hard work. Excellent in taking initiatives and working in a team with leading role.

Education

PMAS Arid Agriculture University, Rawalpindi, Pakistan

Lancaster University, UK

Present

PhD: Plant Breeding and Genetics

Molecular Biology, Molecular Genetics, Breeding of legumes and Biodiversity, Photobiology are the subjects of special interest regarding teaching and research.

PhD Research: Genetics of early maturity in Peanut under rain fed conditions

University of Azad Jammu & Kashmir, Muzaffarabad

2011- 2012

MSc. Hons: Plant Breeding and Molecular Genetics

(84%)

Research on characterization of diversity of common bean (*Phaseolus vulgaris*) unexplored landraces from Azad Jammu and Kashmir

University of Azad Jammu and Kashmir Muzaffarabad

2006-2010

BSc. Hons: Plant Breeding and Molecular Genetics

(82%)

Research on Nutritional profiling and diversity assay of common bean germplasm from AJ&K

Post Graduate College for Woman, Satellite Town Rawalpindi

2006

Intermediate: Biology, Chemistry, Physics

(70%)

BISE, Mirpur

2003

Matriculation: Biology, Chemistry, Physics, Mathematics

(76%)

Project

Academic Collaborator in **NRPU** "Genetic Improvement of Common Bean (*Phaseolus vulgaris* L.) from Azad Jammu and Kashmir Using Marker Assisted Breeding for Cultivar Development"

Submitted Project (Partner): "Feasibility for clean cooking and rural empowerment in Pakistan through robust and innovative hybrid solar and biogas community plants" Innovate UK January 2021

Publications

Sammyia J., K. N. Shah, A. Ghafoor, S. Kabir and A. H. Shah. 2019. Genetic and nutritional profiling of common bean (*Phaseolus vulgaris* L.) germplasm from Azad Jammu and Kashmir and exotic accessions using protein fingerprinting techniques. Journal of Animal and Plant Sciences. 29(1): 205-214

Jannat S., Shah A.H. and Sabir S.M. 2019. Nutraceutical characterization of common bean (*Phaseolus vulgaris* L.) germplasm from Pakistan, International Food Research Journal. 26(6): 1835-1843

Thesis MSc. Hons.: Screening of promising common bean (*Phaseolus vulgaris*) landraces from Azad Jammu and Kashmir using genomic and post genomic approaches.

Research BSc. Hons.: Assessment and evaluation of genetic diversity in *Phaseolus vulgaris* germplasm by SDS-PAGE and Physico- chemical analysis.

Experience

Teaching experience as Lecturer Department of Biotechnology, University of Kotli, AJ&K February, 2016 - Present

Students Co supervised (MPhil)

Marya Rubab: Genome Wide Identification and molecular Characterization of root related genes under drought stress in wheat

Ameena Chaudry: Biological activities and antidiabetic potential of different parts of *Melia azedarach*

Afnan Altaf: Phytochemical analysis and determination of antioxidant properties of sea buckthorn (*Hippophae rhamnoides* L.) leaves.

Sobia Kausar: Comparative study of antimicrobial and antioxidant activities of selected species of *Taraxacum*.

Tahira Nawaz: Phytochemical analysis of *Zanthoxylum armatum* DC. fruit extract at different harvesting stages and evaluation of mosquito repellent properties of leaves, bark and fruit.

Administrative Skills

- Laboratory in charge at Molecular Biology and Biotechnology Research Laboratory, Department of Biotechnology, UoK, AJ&K
 - Departmental annual report writing, making five and ten year plans within Department of Biotechnology, UoK, AJ&K
 - Designing boards of studies agenda, for curriculum development, of undergraduate and post graduate programs at Department of Biotechnology, UoK, AJ&K
 - Examination committee member
 - Member Plant Genomics Group, University of Azad Jammu and Kashmir
 - Member Biotechnology Society, University of Kotli, Azad Jammu and Kashmir
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Certificates of Participation in Conferences

- Poster presentation on “Breeding for early maturity and in silico identification of earliness related genes in peanut (*Arachis hypogaea* L.)” in an International conference of Open Plant Forum at Cambridge UK (2019).
 - Poster presentation in an international Conference under Plant, People and Planet in Kew Garden London on “Therapeutical characterization of selected medicinal plants from Azad Jammu and Kashmir (2019).
 - Poster Presentation, Second Prize Winner at International Conference on “Tackling Climate Change through Plant Breeding” 13-15 November, 2017 at PMAS, Arid Agriculture University, Rawalpindi. “Genetic improvement for early maturity in peanut (*Arachis hypogae* L.) against climate changes”.
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