

RESUME

Dr. Syed Jehangir Shah

Lecturer

**Institute of Biotechnology and Genetic Engineering,
The University of Agriculture Peshawar, Pakistan**

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Objective:

To work with an aim to gain valuable hands on experience and professional skills in an Institute which provides a challenging, learning and developing atmosphere.

Father's Name:	Syed Raj Jehan	Date of Birth:	Januray 27 th 1985
NIC No.:	17301-4965410-3	Religion:	Islam
Marital Status:	Married	Place of birth:	Peshawar (Khyber Pakhtunkhwa)

Qualification:

- ☐ **Ph.D in Agriculture Sciences (Agriculture Biotechnology, 19/12/2017)**
Department of Molecular Phytomedicine, University of Bonn, Germany
Thesis title: Analysis of the role of polygalacturonase inhibiting proteins in the interaction between plants and nematodes
- ☐ **M.Phil in Biotechnology**
Institute of Biotechnology and Genetic Engineering,
The University of Agriculture Peshawar, Pakistan
CGPA: 3.92/4.0(89%)
Session 2009-2012
- ☐ **B.Sc (Hons) in Agriculture (Plant Breeding and Genetics)**
Department of Plant Breeding and Genetics,
The University of Agriculture Peshawar, Pakistan
CGPA: 3.72/4.00 (82%)
Session 2005-2008
- ☐ **F.Sc Pre-Medical**
Edwards College Peshawar, Pakistan.
(BISEP) Marks: 813/1100
(1st Division) Session-2004
- ☐ **S.S.C (Science)**
University Public School Peshawar
(BISEP) Marks:710/850
(1st Division) Session-2001

Relevant Work Experience

1. **Lecturer (BPS-18)**, at the "Institute of Biotechnology and Genetic Engineering, The University of Agriculture Peshawar" (From 2012 till date)

Responsibilities: Teaching and Research

2. **Visiting Lecturer** in biotechnology at "Sarhad University of Science and Information Technology" Peshawar from 7th October 2010 to 21st July 2011.
3. Six months field research at The University of Agriculture Peshawar as a Research

Fellow under the Project title "Modified Double Cross Maize Hybrid Production as a Source of low Cost Seed" from June to December 2008.

Awards/Honors

- ☐ PhD Scholarship awarded in Faculty Development Program funded by Higher Education Commission of Pakistan under SIBGE project 2012.
- ☐ Postdoc fellowship awarded by the Higher Education Commission of Pakistan In 2025

Projects

Worked as a CO-PI in Syngenta approved project titled “Evaluating nematocidal efficacy of Syngenta-based unregistered product “coded” against major plant parasitic nematodes in Citrus (Rs. 2855920/-) **(completed)**

Languages:

- ☐ Urdu
- ☐ English
- ☐ Pashto

References:

1. **Prof. Dr. Florian. M. W. Grundler,**
INRES, Molekulare Phytomedizin Karlrobert-Kreiten-Str. 13, D-53115 Bonn
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2. **Dr. Shahid Siddique,**
Associate Professor
University of California, Davis One Shields Avenue Davis, CA 95616 4208
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3. **Prof. Dr. Asad Jan**
Director,
Institute of Biotechnology and Genetic Engineering, The University of Agriculture Peshawar.
Email: janasad@aup.edu.pk

Conferences/Trainings

1. Oral presentation in 32nd European Society of Nematologists Conference in Braga, Portugal held in August, 2016.
2. Oral presentation in the 45th annual meeting of the DPG working group Nematology from March 14th to 15th 2017 in Einbeck, Germany.
3. Training course on “classical and molecular approaches in wheat breeding” held in 2019 at IBGE, The University of Agriculture Peshawar, Pakistan

Research Publications

1. Ullah, I., A, Iqbal, I, Ali, I. Munir, E. Ali, **Shah, S.J.**, N. Ullah., S.A.K Bangash., Z.A. Swati and M.S. Qureshi. 2011. Role of dietary supplementation in the protein content of bovine milk. *African Journal of Biotechnology*, 10(18): 3624-3627.
2. **Shah, S.J.**, M.S. Anjam, B. Mendy, M.A. Anwar, S.S Habash, J, L Lozano-Torres, F.M.W Grundler and S. Siddiqui. 2017. Damage-associated responses of the host contribute to defence against cyst nematodes but not root-knot nematodes. *Journal of Experimental Botany*, 68: 5949–5960.
3. Anwer, M.A., M.S. Anjam, **Shah, S.J.**, M.S. Hasan, A.A Naz, F.M.W Grundler and S. Siddique. 2018. Genome-wide association study uncovers a novel QTL allele of AtS40-3 that affects the sex ratio of cyst nematodes in *Arabidopsis*. *Journal of Experimental Botany*, 69: 1805-1814.
4. Anjam, M.S., **Shah, S.J.**, Matera, C., Róžańska, E., Sobczak, M., Siddique, S., et al. 2020. Host factors influence the sex of nematodes parasitizing roots of *Arabidopsis thaliana*. *Plant Cell and Environment*, 43: 1160-1174.
5. Sana Ghaffar, Imran Khan, Mian Afaq Ahmad, Tafavouq Umar, Iqbal Munir, M. Nauman Ahmad, **Syed Jehangir Shah**, Ikram Ullah, Ghulam Mustafa, Waqar Ali and Toqeer Ahmad. 2020. Effect of Fluoride on physiology and growth Indicators of *Zea Mays*. *Fluoride*, 53: 491-498.
6. Muhammad Saeed, Muhammad Ibrahim, Waqas Ahmad, Muhammad Tayyab, Safira Attacha, Mudassar Nawaz Khan, Sultan Akbar Jadoon, **Syed Jehangir Shah**, Shaista Zeb, Liaqat Shah, Fazal Munsif, Ahmad Zubair, Jie Lu, Hongqi Si and Chuanxi Ma. 2022. Molecular Characterization of Diverse Wheat Genetic Resources for Resistance to Yellow Rust Pathogen (*Puccinia striiformis*). *Agronomy*, 12: 2951.
7. Ikram, U., Uzair, M., Rehman, O., Attacha, S., Attia, K., Ahmad, S., Salman, M., Ali, H., Rashid, M., Asma, M., **Shah, S. J** et al. 2023. Characterization of the Tubby-Like Proteins (TLPs) gene family in *Cucumis sativus* L.: insights into the Evolution, Structure, and Expression patterns under Salt Stress. *Genetic Resources and Crop Evolution*, 1-18.
8. Rashid, M. U., **Shah, S. J.**, Attacha, S., Khan, L., Saeed, J., Shah, S. T., & Mohamed, H. I. 2024. Green Synthesis and Characterization of Zinc Oxide Nanoparticles Using Citrus limetta Peels Extract and Their Antibacterial Activity Against Brown and Soft Rot Pathogens and Antioxidant Potential. *Waste and Biomass Valorization*, 1-16.
9. Ahmad, S., Ahmad, M.A., Umar, F., Munir, I., Iqbal, N., Ahmad, N., Ahmad, G., Ijaz, M., ur Rahman, Z., **Shah, S.J.** and Iqbal, H. 2024. Green Nano-synthesis: *Salix alba* Bark-Derived Zinc Oxide Nanoparticle and their nematicidal Efficacy against root knot nematode *Meloidogyne incognita*. *Advancements in Life Sciences*, 10(4), pp.675-681.
10. Tahir M., Ibrahim, M., Yaqoob, M., **Shah, S.J.**, Ahmad, S. 2025. Association of sequence variation in SOCS2 gene with susceptibility to *Haemonchus contortus* infection in sheep. *J Helminthol*. 99:e64. doi: 10.1017/S0022149X25100308. PMID: 40525939.
11. Durrani, I., Nissa, I., Jan, A., **Shah, S.J.**, Tanveer, S., Basit, A and Heba, I. 2025. In Silico Expression Analysis of Germin-Like Protein Genes From Rice Cultivar Nipponbare. *Molecular biology reports*, 52(1):840.
12. Nasir, A., Tayyab, M †Shah, S.J., Muhammad Sayyar, M.K., Heba I. M., Haiam O., Marwa, I., Hossam S., Mohamed.O and Abdelrahman, A. 2026. Green Synthesized Zinc Oxide Nanoparticles Mediated by *Dysphania botrys* Extract: Structural Characterization and Biological Applications. *BioResources*, 21(2): 5106-5121.

