Dr. Samiullah Khan, PhD

Associate Professor

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***Personal Profile***

Highly motivated plant scientist experienced in laboratory techniques, management, and graduate & postgraduate level teaching. Also, well-acquainted with academic and operational aspects of plant biology, that also facilitated my interest during my PhD where I did my research on Plant Stress.

**Carrier Objective**

To seek excellence in the field of Plant Science in general and Plant Molecular Biology in particular and to deliver my knowledge and experience to others interested in this field. My career path is to eventually be in an academic institution, which will facilitate learning and ensure that research and development will impact on the improving the lives of individuals.

***Research Skills***

Plant Tissue Culture, Primer, PCR, DNA, Electrophoresis, Gel Electrophoresis, Genotyping, DNA Extraction, Gene Expression, DNA Amplification, RNA Extraction, Molecular Genetics, Agarose Gel Electrophoresis, Gene Mapping, SDS-PAGE, Gene Regulation, Molecular Biotechnology, Rice, Salt Stress, Salt-Tolerance, Seed Germination, Seedling, Salinity, Drought Stress, Abiotic Stress, Quantitative Trait Loci, Drought, Marker Assisted Selection

***Education***

2013 – 2017 *Uinversiti Teknologi Malaysia* **PhD (Biosciences)**

2006 - 2007 *University of Glasgow, UK* **M.Res (Biomedical & Life Sciences)**

2000 - 2002 *University of Arid Agriculture, Rawalpindi* **M.Sc. (Botany)**

1999 – 2000*Bahauddin Zakariya University, Multan* **B.Sc. (Zoology additional)**

1997-1999 *Bahauddin Zakariya University, Multan* **B.Sc (Botany, Chemistry, Geography)**

1993 - 1997 *DG Khan Board, Pakistan*  **Matriculation and F.Sc.**

***Creative & Social skills***

My interests include reading books, horse riding, badminton, hiking, music, and socialising with learned and experienced.

***Work Experience***

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| **22-02-2022 – till present** | **Associate Professor** | **Balochistan University of IT, Engineering and Management Sciences, Quetta, Pakistan** |
|  | * Teaching undergraduate and postgraduate students in the faculty of Biotechnology & Informatics | |
| **03-07-2009 – 21.02.2022** | **Assistant Professor** | **Balochistan University of IT, Engineering and Management Sciences, Quetta, Pakistan** |
|  | * Teaching undergraduate and postgraduate students in the faculty of Biotechnology & Informatics | |
| **24-04-2013 – 04-07-2017** | **PhD Scholar** | **Universiti Teknologi Malaysia** |
|  | * Completed my PhD degree successfully in 2017 * Technologies: PCR, PAGE, MAPMAKER, WIN QTL Cartographer and other techniques | |
| **29-09-2007 – 02-07-2009** | **Lecturer** | **Balochistan University of IT, Engineering and Management Sciences, Quetta, Pakistan** |
|  | * Teaching undergraduate students in faculty of Biotechnology & Informatics | |
| **28.09.2006 – 28-09-2007** | **Postgraduate Student** | **University of Glasgow, UK** |
|  | * Completed research based full time Masters degree * Technologies: PCR, Gel Electrophoresis, ICP-OES Coupled Plasma | |
| **06.03.2006 – 28-09-2007** | **Research Associate** | **Balochistan University of IT, Engineering and Management Sciences, Quetta, Pakistan** |
|  | * Teaching undergraduate students in faculty of Biotechnology & Informatics. | |
| **01-05-2005 – 31-12-2005** | **Lecturer** | **Quaid Science Academy Rawalpindi** |
|  | * Teaching F.Sc. and B.Sc. students | |
| **01-11-2002 – 31-12-2005** | **Lecturer** | **Army Public School and College, Qasim Aviation Base Dhamial Camp Rawalpindi** |
|  | * Teaching school and college level students | |

***Publication Highlights***

***Book Chapters***

Khan, S., Jahan, N., Javed, M. A., & Samad, A. A. (2018). Molecular Markers and their Applications in Crop Improvement. In M. A. Javed & C. Nakamura (Eds.), *Research Trends in Crop Plants* (1st ed., pp. 1-19). Johor Bahru, Johor: PENERBIT UTM PRESS.

Khan, S., Akram, Z., Derakhshandeh, B., & Manan, F.A. (2018). Strategies for Identification of QTLs for Tolerance to Saline-Alkaline Stress; at Germination in Rice (*Oryza sativa* L.) In M. A. Javed & N. A. N. N. Malek (Eds.), *Crop Plants and Abiotic Toxicities* (1st ed., pp. 19-53). Johor Bahru, Johor: PENERBIT UTM PRESS.

Khan, S., Jahan, N., Malek, N. A. N. N., & Manan, F. A. (2018). Mechanisms, Effects and Strategies to Live with Salinity. In M. A. Javed & N. A. N. N. Malek (Eds.), *Crop Plants and Abiotic Toxicities* (1st ed., pp. 73-83). Johor Bahru, Johor: PENERBIT UTM PRESS.

Akram, Z., & Khan, S. (2018). Role of Quality in Crop Improvement. In M. A. Javed & C. Nakamura (Eds.), *Research Trends in Crop Plants* (1st ed., pp. 37-53). Johor Bahru, Johor: PENERBIT UTM PRESS.

Jahan, N., M. A. Javed, Manan, F.A., & Khan, S. (2018) Heavy Metals Toxicity in Rice Crop Cultivation. In M. A. Javed & N. A. N. N. Malek (Eds.), Crop Plants and Abiotic Toxicities (1st ed., pp. 1-17). Johor Bahru, Johor: PENERBIT UTM PRESS.

***Journal Publications***

Baloch, A. A., Ahmad, A., Kakar, K. U., Naudhani, S.**, Khan**, **S.**, Raza, A. M., & Sultan, I. N. (2022). Detection of Two Missense Substitutions in Gene EPM2B in Patients of Myoclonic Epilepsy from Balochistan. *Pakistan Journal of Zoology*.

Baloch, A. A., Kakar, K. U., Nawaz, Z., Mushtaq, M., Abro, A., **Khan, S.**, & Latif, A. (2022). Comparative genomics and evolutionary analysis of plant CNGCs. *Biology Methods and Protocols*, 7(1), bpac018.

Baloch AA, Raza AM, Rana SS, Ullah S, **Khan, S**., Zahid H, Malghani GK, Kakar KU. (2021). BrCNGC gene family in field mustard: genome-wide identification, characterization, comparative synteny, evolution and expression profiling. *Scientific reports*. 17;11(1):1-6. **(IF: 5.06)**

Jahan, N., Javed, M. A., Manan, F. A., **Khan, S.**, Samad, A. A., & Zaidi, M. I. (2017). Comparative study of physiological and growth parameters for sodium and iron toxicities in upland and lowland cultivars of *Oryza sativa* L. *Pak. J. Bot, 49,* 249-254. **(IF: 0.56)**

Supari, N., Javed, M. A., Jahan, N., Khalili, E., & **Khan, S.** (2016). Screening of previously reported microsatellite markers, associated with panicle characteristics, for marker assisted selection in Malaysian rice (*Oryza sativa* L.). *J Animal Plant Sci, 26,* 1117-1123. **(IF: 0.53)**

Tahira, B., M. A., **Khan, S.**, Hussain, A., Shahwani, M. N., Malik, A., Inayatullah, S., ... & Rasool, M. (2015). Detection of BCR/ABL fusion gene by hematological and cytogenetical analysis in chronic myeloid leukemia patients in Quetta, Pakistan. *Asian Pacific Journal of Cancer Prevention, 16*(9), 3793-3797. **(IF: 2.51)**

Jahan, N., Fauzi, N., Javed, M. A., **Khan, S**., & Hanapi, S. Z. (2016). Effects of ferrous toxicity on seedling traits and Ion Distribution pattern in Upland and Low Land Rice under hydroponic conditions. *Jurnal Teknologi, 78*(1-2). **(ISI Recognised)**

Ahmad, I., **Khan, S.**, Javed, M. A., Huyop, F. Z., Tariq, M., & Nasir, I. A. (2013). RAPD and protein analyses revealed polymorphism in mutated potato cultivars. *Jurnal Teknologi*, 64(2). **(ISI Recognised)**

Ali, A., Hussain, R. M., Asghar, A., Hassan, Z., Malghani, G. K., **Khan, S.**, & Dom, N. C. (2021). The effect of noise on motor task functioning among young motorcyclist: A controlled experiment. *Journal of Applied and Emerging Sciences*, 11(1).pp95 **(HEC Y Category)**

Khan, N. T., & **Khan, S.** (2020). Nanotoxicology - An Emerging Discipline Evolving from Nanoparticle Risk Assessment. *ACTA Scientific Microbiology*, 3(12), 124-127.

**Khan, S.**, Javed, M. A., Jahan, N., & Manan, F. A. (2016). A short review on the development of salt tolerant cultivars in rice. *Int J Public Health, 5*(2), 201-212.

Habib, M., Muhammad, N., Mandokhail, S. J., Baloch, Z., Irfan, M., Khan, A., Akram, M., Khan, G., Anila, A., Asghar, A., & **Khan, S.** (2020). Dynamic Response Study of a Single Tower Cable Stayed Bridge using Finite Element Method. *Journal of Applied and Emerging Sciences*, 10(2). **(HEC Y Category)**

Shabana R., Alam, H., Umar, Z., Shoaib, M., Khan, S., Inayatullah, S. and Hussian, A. (2021). Prevalence of iron-deficiency anemia in pregnant women of rural and urban areas of Balochistan, Pakistan. Pak-Euro Journal of Medical and Life Sciences 4(4): 164-169. **(HEC Y Category)**

Muhammad, A., Khan, M. A., Iram, S., **Khan, S.**, Asif, M. (2021). Molecular evolution of Zika virus by phylogenetic analysis of individual structural capsid (C) gene and whole genome sequence worldwide. Pak-Euro Journal of Medical and Life Sciences 4(4): 170-177. **(HEC Y Category)**

Khan, N.T. and **Khan, S.** (2021). Mycofabrication of Silver Nanoparticles from *Aspergillus niger* and Determination of its Anti-Fungal Potency against Candida Species. *Glob J Pharmaceu Sci* 8(5), 146-158.

Khan, N.T. and **Khan, S.** (2021). Nano toxicology for Safety Assessment of Sophisticated Nanomaterials. *Nano Prog.* 3(6), 48-50.

***Conference Proceedings***

Khan, S., Alam, S. A. Z., & Javed, M. A.: *Response of Germination Attributes To Salinity Toxicity in Indica Rice (Oryza Sativa L.)*. 4th International Science Postgraduate Conference 2016, Universiti Teknologi Malaysia; 02/2016

Khan, S., Javed, M. A.: *Correlation Studies for Growth and Physiological Parameters in Upland and Lowland Rice Varieties*. International Science Postgraduate Conference (ISPC2016); 02/2016, DOI:10.13140/RG.2.1.4452.2640

***Poster Presentations***

Khan S., Javed, M. A., & Jahan, N. (2016, November). Correlation studies for germination and germination growth traits in rice. Poster session presented at the International Conference on Bioscience and Medical Engineering (ICBME), Universiti Teknologi Malaysia

Jahan, N., Javed, M. A., & Khan, S. (2016, November). Estimation of Cadmium (Cd) toxicological effects on two indica rice at germination stage. Poster presented at the International Conference on Bioscience and Medical Engineering (ICBME), Universiti Teknologi Malaysia

***Abstracts***

Khan, S., Redhuan, M., Javed, M. A., & Jahan, N. (2016) Rice seedling age is critical for DNA quality in marker assisted selection. Paper presented at the Regional Annual Fundamental Science Symposium (RAFSS), Kualalumpur, Malaysia

Atiqah Z. A. S., Javed, M. A., & Khan, S. (2016) Performance of Indica rice (*Oryza sativa* L.) at germination stage to Sodium toxicity. Paper presented at the Regional Annual Fundamental Science Symposium (RAFSS), Kualalumpur, Malaysia