

Name: Muhammad Shakeel Ahmed Khan  
Designation: Vice-Chancellor, Salim Habib University & Professor of Biosciences  
Qualification: Ph. D. (Biochemistry and Applied Molecular Biology/Biotechnology), UMIST, Manchester, UK.  
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#### Profile:

Prof. Shakeel Khan has more than 44 years of teaching, research and administrative experience. He has served the University of Karachi for more than 38 years. In addition to teaching and research, he worked in different capacities at the University of Karachi viz, Director, Student Guidance, Counselling, Placement Bureau & Overseas Examinations; Director, Admissions; Director, Biological Research Centre; In-charge, Students Financial Aid Office, University of Karachi. Supervised many Masters/M. Phil. & Ph. D. students. Published several research articles in well-reputed national and international journals. He was retired from the University of Karachi as a Tenured & Meritorious Professor.

Currently, Dr. Shakeel Khan is serving as Vice-Chancellor, Salim Habib University. In addition to his administrative responsibilities, he is also teaching courses in the Department of Biosciences, Salim Habib University.

#### Research Interest:

- Protein Engineering to create multi-enzyme complexes
- Gene-fusion studies
- Functional genomics of *Saccharomyces cerevisiae* (Baker's yeast)
- Bioinformatics (Conceptual modelling of genomic information)
- Biotechnological applications of enzymes of industrial importance
- Antifungal metabolites of bacterial origin
- Bacteriocin and bacteriocin-like inhibitory substances (BLIS)
- Antinematicidal metabolites from *Bacillus* sp.
- Bioactive compounds of plant origin

#### Selected publication:

- 1) Yahya, S., Sohail, M., **Khan, SA** (2021). Characterization, thermal stabilization and desizing potential of amylase from *A. tubengensis* SY1. *The Journal of the Textile Institute*, DOI: <https://doi.org/10.1080/00405000.2021.1914393>.
- 2) Sohail, M., Ahmad, A., **Khan, SA**. (2016). Production of cellulase from *Aspergillus terreus* MS105 on crude and commercially purified substrates. *3 Biotech*. **6(1)**: 103.
- 3) Khan, KM., Ahmad, A., Ambreen, N., Aryn, A., Perveen, S., **Khan, SA**., Choudhary, MI. (2009) Schiff bases of 3-formylchromones as antibacterial, antifungal, and phytotoxic agents. *Letts Drug Design & Discovery*, **6**: 363-373.
- 4) Sohail, M., Siddiqui, R., Ahmad, A., **Khan, SA**. (2009). Cellulase production from *Aspergillus niger* MS82: effect of temperature and pH. *New Biotechnol*. **25 (6)**: 437-441.

- 5) Lone, NA., Rehmani, SF., Kazmi, SU., Muzaffar, R., Khan,TA., **Khan, SA.**, Khan, A. (2009). Molecular Characterization of Pakistani Field Isolates of Infectious Bursal Disease Virus (IBDV). *Avian Dis.*, **53 (2)**: 306-309.
- 6) Saleem, R., Rani, R., Ahmed, M., Sadaf, F., Ahmed, S.I., Zafar, N., Khan, S.S., Siddiqui, B.S., Faizi, S., Ansari, F., **Khan, S.A.** (2008) Effect of cream containing *Melia azedarach* flowers on skin diseases in children. *Phytomed.*, **15**: 231-236.
- 7) Faizi, S., Khan, R.A., Azhar, S., **Khan, S.A.**, Tauseef, S., Ahmad, A (2003) New antimicrobial alkaloids from the roots of *Polyalthia longifolia* var. pendula. *Planta Med.*, **69**: 350-355.
- 8) Faizi, S., Mughal, N.R., Khan, R.A., **Khan S.A.**, Ahmad, A., Bibi, N., Ahmad, S.A. (2003) Evaluation of antimicrobial property of *Polyalthia longifolia* var. Pendula: Isolation of a lactone as the active antibacterial agent from the ethanol extract of the stem. *Phytother. Res.*, **17(10)**: 1177-1181.
- 9) Zhang, N., Merlotti, C., Wu, J., Ismail, T., El-Moghazy, A-N., **Khan, S.A.**, Butt, A., Gardner, D.C.J., Sims, P.F.G., Oliver, S.G. (2001) Functional analysis of six ORFs on the left arm of chromosome XII of *Saccharomyces cerevisiae* reveals three of them responding to S-starvation. *Yeast*, **18**: 325-334.
- 10) **Khan, S.A.**, Ismail, T., El-Moghazy, A-N., Zhang, N., Wu, J., Butt, A., Merlotti, C., Woodwark, K.C., Gardner, D.C.J., Oliver, S.G. (2000) Functional analysis of eight novel ORFs, six on the left arm and one on the right arm of chromosome XII, and one on the right arm of the chromosome XIV in *Saccharomyces cerevisiae*. *Yeast*, **16**:1457-1468.
- 11) Paton, N.W., **Khan, S.A.**, Hayes, A., Moussouni, F., Brass, A., Eilbeck, K., Goble, C.A., Hubbard, S.J., Oliver, S.G. (2000) Conceptual Modelling of genomic information. *Bioinformatics*, **16**: 548-557.
- 12) El-Moghazy, A-N., Zhang, N., Ismail, T., Wu, J., Butt, A., **Khan, S.A.**, Merlotti, C., Woodwark, K.C., Gardner, D.C.J., Gaskell, S.J., Oliver, S.G. (2000) Functional analysis of six novel ORFs on the left arm of chromosome XII in *Saccharomyces cerevisiae* reveal two essential genes, one of which is under cell-cycle control. *Yeast*, **16**: 277-288.