

Dr. Muhammad Saad Ahmed
Assistant Professor
Biological Sciences



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Specialization:

Biochemical Engineering

Education:

Ph.D. Biochemical Engineering (2013 - 2018), Beijing Institute of Technology, Beijing, China.

MS Biotechnology (2011 - 2013), International Islamic University, Islamabad, Pakistan.

B.Sc. (Hons) Genetics (2006 - 2010), The University of Agriculture, Peshawar, Pakistan.

Experience:

Assistant Professor (July 2019 – To date), National University of Medical Sciences, Rawalpindi, Pakistan.

Research Interests:

Metabolic Engineering, Synthetic Biology, Pathway Engineering, Secondary Metabolites Production, Transporters Engineering, Biochemical Engineering, Industrial Biotechnology.

Publications:

- [1]. **Muhammad Saad Ahmed**, et al., (2019). Design and Construction of Short Synthetic Terminators for β -amylin Production in *Saccharomyces cerevisiae*. **Biochemical Engineering Journal**. 146; 105-116. <https://doi.org/10.1016/j.bej.2019.03.011>. **(Impact Factor: 3.371)**.
- [2]. **Muhammad Saad Ahmed**, et al., (2019). Identification of Effective Membrane Efflux Transporter against β -amylin through Molecular Docking Approach. **Journal of Chemical Technology and Biotechnology**. 94: 2869–2875. <https://doi.org/10.1002/jctb.6084>. **(Impact Factor: 2.659)**.
- [3]. R. A. Tahir...**Muhammad Saad Ahmed**, et al., (2018). Pharmacoinformatics and molecular docking reveal potential drug candidates against Schizophrenia to target TAAR6. **Journal of Cellular Physiology**. 1–14. <https://doi.org/10.1002/jcp.27999>. **(Impact Factor: 4.522)**.

- [4]. **Muhammad Saad Ahmed**, et al., (2018). Hutchinson-Gilford Progeria Syndrome: A Premature Aging Disease. **Molecular Neurobiology**. 55 (5); 4417-4427. <https://doi.org/10.1007/s12035-017-0610-7>. **(Impact Factor: 5.076)**.
- [5]. M.H. Saier... **Muhammad Saad Ahmed**, et al., (2016). The Transporter Classification Database (TCDB): recent advances. **Nucleic Acids Research**. 44; D372–379. DOI : 10.1093/nar/gkv1103. **(Impact Factor: 11.561)**.
- [6]. A.Rasool, **Muhammad Saad Ahmed**, et al., (2016). Overproduction of Squalene synergistically downregulates ethanol production in *Saccharomyces cerevisiae*. **Chemical Engineering Science**. 152; 370-380. DOI: 10.1016/j.ces.2016.06.014. **(Impact Factor: 3.372)**.
- [7]. H. Tang... **Muhammad Saad Ahmed**, et al., (2016). Effect of Glycosylation of β -Glucuronidase on its Catalytic Properties in Ionic Liquids. **Chemical and Biochemical Engineering Quarterly**. 29(4); 559-566. DOI: 10.15255/CABEQ.2014.2097. **(Impact Factor: 1.65)**.
- [8]. H. Jie... **Muhammad Saad Ahmed**, et al., (2015). Novel Helper Factors Influencing Recombinant Protein Production in *Pichia pastoris* based on Proteomic Analysis under Simulated Microgravity. **Applied Microbiology and Biotechnology**. 99(2); 653-665. DOI: 10.1007/s00253-014-6175-8. **(Impact Factor: 3.92)**.
- [9]. **Muhammad Saad Ahmed**, et al., (2013). Identification of Novel Mutation in the HR Gene Responsible for Atrichia with Popular Lesions in a Pakistani family. **Journal of Dermatology**. 40(11), 927-928. DOI: 10.1111/1346-8138.12266. **(Impact Factor: 3.377)**.
- [10]. A. Arshad... **Muhammad Saad Ahmed**, et al., (2013). Seropositivity and Active HCV Infection in Patients from Peshawar Division of Khyber Pakhtunkhwa Province, Pakistan. **Pakistan Journal of Zoology**. 45(6); 1579-1584. **(Impact Factor: 0.790)**.
- [11]. H. Hussain... **Muhammad Saad Ahmed**, et al., (2013). Evaluation of Genetic Diversity in Peafowl Color Mutants. **Science International**. 25(1); 107-110. **(Impact Factor: 1.365)**.
- [12]. F. Keshavarzi, P. Ashtari, **Muhammad Saad Ahmed**, et al., (2013). Evaluation of an I¹²³-Radiolabeled Peptide as a Targeting and Imaging Agent for Cell Membrane Receptors. **International Journal of Biological Chemistry**. 7(2); 69-78. DOI: 10.3923/ijbc.2013.69.78. **(Impact Factor: 0.00)**.
- [13]. A. Arshad... **Muhammad Saad Ahmed**, et al., (2013). Development of Duplex PCR Assay for the Detection of *Mycoplasma Gallisepticum* and *Mycoplasma Synoviae* Prevalence in Pakistan. **International Journal of Animal and Veterinary Advances**. 5(3); 114-119. **(Impact Factor: 0.00)**.

- [14]. M.S. Iqbal, **Muhammad Saad Ahmed*** (Corresponding Author), et al., (2012). Ethanol Production from Waste Materials. **Journal of Biochemical Technology**. 4(1); 485-488. **(Impact Factor: 0.00)**.
- [15]. M.S. Iqbal, **Muhammad Saad Ahmed*** (Corresponding Author), et al., (2012). Diagnosis and Management of Iron Deficiency Anaemia Via Parental Iron. **International Journal of Natural Sciences**. 22(3):88-90. **(Impact Factor: 0.00)**.
- [16]. G. Abbas... **Muhammad Saad Ahmed**, et al., (2012). Effect of Organic Manures with Recommended Dose of NPK on the Performance of Wheat (*Triticum aestivum L.*). **Journal of Animal and Plant Sciences**. 22(3); 683-687. **(Impact Factor: 0.529)**.
- [17]. **Muhammad Saad Ahmed**, et al., (2018). Cell Factory: Efflux Transporters for the Increased Metabolites Production. (Submitted).