

Murtaza Haider Syed, PhD

Doctorate

Biochemical Engineering

Education

PhD, Biochemical Engineering, Universiti Malaysia Pahang Al-Sultan Abdullah, 2021-2025

MS , Molecular and Cell Biology, Lahore University of Management Sciences, 2017-2019

BS, Biochemistry, University of the Punjab, 2013-2017

Experience

Research Assistant, Faculty of Chemical and Process Engineering, Universiti Malaysia Pahang, Malaysia, 2024 – 2025

Research Assistant, Faculty of Chemical and Process Engineering, Universiti Malaysia Pahang, Malaysia, 2021-2023

Research Assistant, Department of chemical engineering, Yeungnam University, South Korea, 2021 – 2021

Research Associate, Biology Department, Lahore University of Management Sciences (LUMS), Pakistan, 2020 – 2021

Research Interests

- Therapeutics
- Biopolymers
- Biomaterials
- Nanomaterials
- Biocomposites
- Drug Delivery

Last 5 Publications

1. **Syed M. H.**, Zahari M. A. K. M., Khan M. M. R., Beg M. D. H., Abdullah N.: An overview on recent biomedical applications of biopolymers: Their role in drug delivery systems and comparison of major systems. Journal of Drug Delivery Science and Technology, 80, 104121 (2023) <https://doi.org/10.1016/j.jddst.2022.104121>. Impact Factor:5.3; Area and position: Nanomaterials science and biomedical, Q1
2. **Syed M. H.**, Khan M. M. R., Zahari M. A. K. M., Beg M. D. H., Abdullah N.: A review on current trends and future prospectives of electrospun biopolymeric nanofibers for biomedical applications. European Polymer Journal, 197, 112352 (2023). <https://doi.org/10.1016/j.eurpolymj.2023.112352>. Impact Factor: 5.8; Area and position: Materials science and biomedical, Q1
3. **Syed M. H.**, Khan M. M. R., Zahari M. A. K. M., Beg M. D. H., Abdullah N.: Current issues and potential solutions for the electrospinning of major polysaccharides and proteins: A

review. International Journal of Biological Macromolecules, 253, 126735 (2023).
<https://doi.org/https://doi.org/10.1016/j.ijbiomac.2023.126735>. Impact Factor: 7.7;
Area and position: Materials science and biomedical, Q1

4. **Syed M. H.**, Khan M. M. R., Zahari M. A. K., Khodijah A. Q., Effect of drug loading on sustained release through needleless electrospun nanocellulose/chitosan/polylactic acid based drug delivery system. International Journal of Biological Macromolecules, (2025). <https://doi.org/10.1016/j.ijbiomac.2025.147843>, Impact Factor: 8.5; Area and position: Materials science and biomedical, Q1
5. **Syed M. H.**, Al Qubro K., Khan M. M. R., Zahari M. A. K. M., Abdullah N.: An insight into the drug release kinetics of polylactic acid/chitosan/nanocellulose nanofibers: Effect of preparation method on drug release kinetics. Journal of Polymer Science, n/a,(2025). <https://doi.org/https://doi.org/10.1002/pol.20250609>, Impact Factor: 3.6; Area and position: Materials science and biomedical, Q1

Awards

- Holistic scheme, Tuition fee waiver for 1 year due to excellent publication record, UMPSA, 2023
- Publication incentive, Prize money award (1800 MYR) for publishing Q1 level, UMPSA, 2023
- Doctoral research scheme, Monthly stipend (1200 MYR) from the department for excellent publication track record throughout PhD studies, 2022 – 2024
- POST-GRADUATE RESEARCH SCHEME (PGRS) a grant (3000 MYR) to cover all the expenses for conference for exceptional students, 2022 -2025
- Basic sciences support initiative, Tuition fees waive throughout the Master's degree, 2017 – 2019
- Prime Minister's Laptop scheme, An award of brand-new hp laptop from the head of my state due to position among top three students, 2014