



Soban Ahmad Faridi

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[\(Google Scholar\)](#) | [Orcid Id](#) | [Scopus](#) | [Web Of Science](#) | [Research gate](#) | [LinkedIn](#)

PROFILE

- Highly motivated biotechnologist with 10+ years of experience in both academic and research environments.
- Proven ability to teach, mentor, and supervise students at both undergraduate and postgraduate levels.
- Expertise in enzyme engineering, bioprocess technology, and fermentation technology.
- Strong track record of publications and conference presentations.
- Committed to advancing scientific knowledge and contributing to the development of innovative solutions in biotechnology.

RESEARCH INTEREST:

- Enzyme Engineering
- Bioprocess Optimization
- Bioproduct Development
- Nanoparticle Synthesis
- Bioinformatics and Computational Biology

SUMMARY OF RESEARCH ACCOMPLISHMENT:

- Conducted research on the intensification of enzymatic reactions using ultrasound, leading to a significant reduction in reaction time for biodiesel production.
- Published research findings in peer-reviewed journals, including the "Journal of Advanced Research in Applied Chemistry & Chemical Engineering."
- Supervised and mentored over 28 undergraduate and postgraduate student research projects, fostering the next generation of biotechnologists.
- Presented research findings at national and international conferences, contributing to the dissemination of scientific knowledge.

COURSE TAUGHT:

- Enzyme Engineering
- Analytical Techniques
- Process Calculations

- Bioreaction Engineering
- Bioenergetics and Metabolic Engineering

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- Course Coordinator for M.Tech (Evening) programs in the Department of Bioengineering
- Founding Member of Alumni Welfare Association of Integral University.

STUDENTS SUPERVISION

1. Shireen Naseer, "Computational study of the interaction between bitter taste receptors and agonists thereof", *M. Tech Dissertation*, Integral University, 2023.
2. Shruti Singh, "Linear regression analysis of molecular descriptors of sweet taste molecules and their sweetness: An *in silico* Approach", *M. Tech Dissertation*, Integral University, 2021.
3. Saima Farheen, "Isolation and screening of cellulase producing microorganism from soil", *B. Tech Dissertation*, Integral University, 2021.
4. Shek Rasid, "Effect of different carrier oils on Anti-microbial activity of essential oils", *B. Tech Dissertation*, Integral University, 2021.
5. Swati, "The development of aroma finish fabric and study of its antimicrobial activity", *B. Tech Dissertation*, Integral University, 2021.
6. Umme Aiman, "*In vitro* study of antimicrobial activity of essential oils and their blends", *B. Tech Dissertation*, Integral University, 2021.
7. Anamika Kaithwar, "Production of Amylase using soil microflora of different cities", *M. Tech Dissertation*, Integral University, 2019.
8. Rahul Singh, "In silico Study of Human Bitter Taste Receptor TAS2R10 with standard bitter compounds", *M. Tech Dissertation*, Integral University, 2019.
9. Atiya Hilal, "Study of Methanolic Extraction of Steviol Glycosides", *Dual Degree (B. Tech + M. Tech) Dissertation*, Integral University, 2019.
10. Noorain Fatima, "Study of the influence of nanoparticles on amylolytic reaction", *B. Tech Dissertation*, Integral University, 2019.
11. Sumaiya Safiq, "Study of influence of chlorpyrifos on amylolytic reaction", *B. Tech Dissertation*, Integral University, 2019.
12. Syed Mehdi Musa, "Fermentative production of Cellulolytic Enzymes", *B. Tech Dissertation*, Integral University, 2019.
13. Umme Jouveriya, "Nanoparticle as Growth Promoter of microorganisms: A Novel Paradigm in Fermentation Technology", *B. Tech Dissertation*, Integral University, 2019.
14. Bilal Khan, "Study of amylolytic activity of polymer coated *Zea mays* (HPQM-1) over different storage conditions & time period", *B. Tech Dissertation*, Integral University, 2018.
15. Pinki Pal, "Isolation, identification and production of chitinase from *Bacillus subtilis*", *B. Tech Dissertation*, Integral University, 2018.
16. Sana Irfan, "*In vitro* and *in silico* analysis of interaction between amylase and different pesticide molecules", *B. Tech Dissertation*, Integral University, 2018.
17. Sana Parveen, "*In silico* investigation of polyketides as potential inhibitors of intercellular adhesion molecules I", *B. Tech Dissertation*, Integral University, 2018.
18. Neeraj Maurya, "Computer aided screening and evaluation of potential xanthine oxidase inhibitors from biologically active phytochemicals against reactive oxygen species", *M. Tech Dissertation*, Integral University, 2017.

19. Osama Khan, "Optimization of medium components by response surface methodology for improved production of *Spirulina platensis*", *B. Tech Dissertation*, Integral University, 2017.
20. Sumbul, "In silico interaction studies of steviol glycosides with sweet taste receptors", *B. Tech Dissertation*, Integral University, 2017.
21. Ghousia Jamal, "Production of amylase by a microbial consortium from hostel kitchen waste", *B. Tech Dissertation*, Integral University, 2016.
22. Ishrat Jahan Badruddin, "Nanoparticle conjugated TiO₂: An approach towards enhancing dye sensitized solar cells' efficiency", *B. Tech Dissertation*, Integral University, 2016.
23. Mahima Jaiswal, "Study of amylase production by a mixed microbial population isolated from potato field", *B. Tech Dissertation*, Integral University, 2016.
24. Rifat Abbas, "Homology modelling and docking analysis of interaction between fungicides and stripe rust resistance protein Yr10: *in silico* approach for stripe rust disease of wheat", *B. Tech Dissertation*, Integral University, 2016.
25. Shafeeq Fatima, "Homology modelling and docking analysis of interaction between active metabolites and glypican-3: an *in silico* approach for liver cancer treatment" *B. Tech Dissertation*, Integral University, 2016.
26. Shahnaz Parveen, "A novel potent oral series of VEGFR2 inhibitors from *Apis mellifera* abrogate tumor growth by inhibiting angiogenesis in cervical cancer: a computational approach", *B. Tech Dissertation*, Integral University, 2016.
27. Harshit Krishna Srivastava, "*In vitro* production of amylase by *Bacillus sp.* Using different carbon sources through submerged fermentation", *M. Sc. Dissertation*, Integral University, 2015.
28. Monika Srivastava, "Optimization of fermentative production of streptomycin by *Streptomyces griseus*", *M. Sc. Dissertation*, Integral University, 2015.
29. Asif Khan, "Efficiency of neural networks for prediction of media compositions for optimum productivity of Glucose Isomerase", *B. Tech Dissertation*, Integral University, 2015.

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- Khalid, T., Hasan, A., Fatima, J. E., Faridi, S. A., Khan, A. F., & Mir, S. S. (2022). Therapeutic role of mTOR inhibitors in control of SARS-CoV-2 viral replication. *Molecular Biology Reports*, 49(12), 8823-8833. doi: 10.1007/s11033-022-08188-1
- Jouvairiya, U., Fatima Alvi, M., Faridi, S. A., Osama, K., & Vimal, A. (2022). Varying Effects Of Iron Oxide Nanoparticles (IONPs) On The Bacterial Cells. *Nanoscience & Nanotechnology-Asia*, 12(4), 1-9. doi: 10.2174/2210681212666220822123017
- Akhlaq, S., Singh, D., Mittal, N., Srivastava, G., Siddiqui, S., Faridi, S. A., & Siddiqui, M. H. (2022). Polyhydroxybutyrate biosynthesis from different waste materials, degradation, and analytic methods: A short review. *Polymer Bulletin*, 80(6), 5965-5997. doi: 10.1007/s00289-022-04406-9
- Shukla, P., Chaurasia, P., Younis, K., Qadri, O. S., Faridi, S. A., & Srivastava, G. (2019). Nanotechnology in sustainable agriculture: studies from seed priming to post-harvest management. *Nanotechnology for Environmental Engineering*, 4, 1-15. doi: 10.1007/s41204-019-0058-2
- Naseer, B., Srivastava, G., Qadri, O. S., Faridi, S. A., Islam, R. U., & Younis, K. (2018). Importance and health hazards of nanoparticles used in the food industry. *Nanotechnology Reviews*, 7(6), 623-641. doi: 10.1515/ntrev-2018-0076