

Curriculum -Vitae

Dr. Mohd Faisal Asar

Assistant Professor (Guest)

Specialization: Enzyme Biochemistry, Nanobiotechnology and Nanobiochemistry

Qualification: M.Sc. in Biotechnology, Ph.D in Biochemistry
GATE, UGC-BSR JRF & SRF

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Current Position:

Assistant Professor (Guest)

Department of Integrative Science, Maharaja Suhel Dev University, Azamgarh, India (from August 2025 – Present).

Research Interests:

Nanobiotechnology, Enzyme Immobilization, Biophysical Characterization, Protein Biochemistry, Immunomodulation, Drug Delivery Systems, Structural Biology and Bioinformatics.

Professional Summary:

A passionate and research oriented Biochemist with a Ph.D. and over 10 years of extensive experience in enzyme immobilization, nanobiotechnology, immunology, and protein biochemistry, along with teaching experience in Integrative Science and Bioinformatics. Adept at applying advanced structural and biophysical techniques to explore enzyme stability and molecular interactions. With a strong research background and publication record, brings an interdisciplinary approach to solving complex biological problems, driven by a commitment to innovation, scientific rigor, and meaningful contributions to academia and biomedical research.

Education:

Ph.D in Biochemistry from the Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, India (2022)

Thesis: Immobilization and stabilization of carbohydrases using nanocomposite materials

Advisor: Prof. Qayyum Husain (Retired)

M.Sc. in Biotechnology: Jamia Hamdard, New Delhi (2009–2011) – 68.08%

B.Sc. in Biosciences: Jamia Millia Islamia, New Delhi (2006–2009) – 71.92%

Awards & Fellowships:

UGC-BSR Junior & Senior Research Fellowship (2015–2019)

GATE Qualified (XL, 2014) – **All India Rank 258**

Past Experience:

Research Fellow in the Hepatitis B Virus Research Lab, CIRBSc. Jamia Millia Islamia (**Jan 2014-Nov 2014**) worked under Prof. Syed Naqui Kazim participated in the experiments pertaining to the PCR, Cloning, Cell culture and Immunological techniques like ELISA etc.

Technical Expertise:

Cell Culture: Cancer cell lines, WST assay, ELISA, confocal microscopy, and transfection.

Animal Handling: Various injection methods, perfusion, antigen preparation, blood sampling.

Molecular Biology: Cloning, protein expression & purification, SDS-PAGE, Western blot, PCR.

Biophysical Techniques: UV-Vis, FTIR, CD, Fluorescence, SEM, TEM, ITC, DSC.

Nanobiotechnology: Nanostructures synthesis, nano-enzyme conjugation.

Lipid Biochemistry: Isolation of LDL, VLDL, HDL.

Fungal Microbiology: Candida isolation,azole sensitivity assays.

Selected Publications:

1. **Asar, M.F.**, Ahmad, N., & Husain, Q. (2020). Chitosan modified Fe₃O₄/graphene oxide nanocomposite as a support for high yield and stable immobilization of cellulase. *Preparative Biochemistry & Biotechnology*, 50(5), 460–467.

2. **Asar, M. F.**, Shoeb, M., & Husain, Q. (2025). High yield immobilization of cellulase on the polypyrrole Fe₂O₄SiO₂ nanocomposite: its stabilization and applicability in the hydrolysis of microcrystalline cellulose in a batch process. *Preparative Biochemistry & Biotechnology*, 56 (5), 758-768.

3. **Asar, M. F.**, Shoeb, M., & Husain, Q. Immobilization and stabilization of cellulase on L-arginine modified magnetic graphene nanocomposite and its application in the hydrolysis of microcrystalline cellulose. **(Under communication)**

4. **Asar, M. F.**, Shoeb, M., & Husain, Q. Bioaffinity based immobilization of cellulase on concanavalin A bound polyaniline grafted platinum coated multiwalled carbon nanotubes and its applications. **(Under communication)**

Conference Presentations:

Poster: Nanobiocatalyst using chitosan-modified Fe₃O₄/GO @ International Conference on Genomics & Proteomics, AMU, 2019.

Oral: Cellulase immobilization on polypyrrole Fe₂O₄SiO₂ @BIOTECHSPECTRUM 2022, CUSAT.

References:

Dr. Fahim Halim Khan

Associate Professor

Dept. of Biochemistry, Aligarh Muslim University, India

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Dr. Syed Naqui Kazim

Professor

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Professor & Group Leader

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Declaration:

I hereby declare that the information provided above is true and correct to the best of my knowledge.

(Mohd Faisal Asar, Ph.D)