

# SYEED GHULAM RAZI



M. Sc., M. Tech Biotechnology

E8-C Street 22, C-1 Janakpuri, New Delhi, India | +91 8449234493 | [syeed.1331@gmail.com](mailto:syeed.1331@gmail.com)

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## EDUCATION

**Guru Gobind Singh Indraprastha University**, Dwarka, Delhi, India

August 2021 – May 2023

**Degree:** M. Tech Biotechnology

**CGPA:** 8.04/10

**Jamia Millia Islamia (Central University)**, New Delhi, India

July 2019 – May 2021

**Degree:** M. Sc. Biophysics

**CGPA:** 7.67/10

## RESEARCH EXPERIENCE

**ICGEB, New Delhi Campus** | Microbial Engineering Group

August 2023 – Present

Junior Research Fellow, Group Leader: Dr. Syed Shams Yazdani

**Project:** “A novel fungal host platform for high-level expression of heterologous proteins”.

**Funding:** Industrially funded by “The Live Green Company”, with International Centre for Genetic Engineering and Biotechnology, Intergovernmental Organisation, New Delhi Campus.

**Other projects:** CRISPR, Molecular cloning of genes, Expression of proteins (heterologous), Isolation and culture of fungus, SDS-PAGE, Electrophoresis, Western blotting, ELISA, and more.

**THSTI, Faridabad, India** | Functional Genomics Laboratory

May 2023 – August 2023

Laboratory Technician, Group Leader: Dr. Bhabatosh Das

**Project:** “Genomic Surveillance for SARS-COV2 in India: Indian SARS-COV2 Genomic Construction (INSACOG) Phase II”.

**Funding:** Through Translational Health Science and Technology Institute, An autonomous institute of the Department of Biotechnology, Ministry of Science & Technology, Government of India – 2023

**Other projects:** SARS-COV2 analysis and sample preparation with PEG (Polyethylene Glycol) and RNA extraction from samples for analysis the RNA load by using qPCR.

**GGSIIP University, Delhi, India**, Functional Genomics Laboratory, USBT

April 2022 – May 2023

Research Scholar, Supervisor: Prof. N. Raghuram

**Thesis title:** “Standardization of regeneration condition for rice (*Oryza sativa* L.) cultivars, and knock-out of the predicted N-responsive genes by using CRISPR-Cas9”.

**Summary of project:** Worked on genome editing of N-responsive genes by CRISPR-Cas9 technology. Transformation and cloning of sgRNA by using vector pRGEB31 by using top10 competent cells. Also, standardize the regeneration conditions for rice cultivars.

**Jamia Millia Islamia (Central University), New Delhi, India**, CIRBSc

January 2020 – July 2021

Research Intern, Supervisor: Dr. Romana Ishrat

**Thesis title:** “Mutational analysis and MD Simulation studies of FOS and CXCL8 genes to examine the structural role in Cardio-renal Syndrome (CRS)”.

**Summary of project:** In-silico analysis of four genes and SNPs have been examined and selected for sequence analysis by using (SIFT, PolyPhen2, PROVEN, and I-Mutant2.O). We discovered 13 highly deleterious mutations and further studied due to its highly deleterious effect by using MD simulation studies.

## **PUBLICATIONS**

Chitrakshi Consul, **Syed Ghulam Razi**, Virendra Singh, Sonu Chand Thakur. "Pathophysiological Implications of Vitamin A in the Human Biological System". Advances in Medicine and Biology (Volume –186), Nova Science Publishers, September 9, 2021.

<https://novapublishers.com/shop/advances-in-medicine-and-biology-volume-186/>

Mohd Murshad Ahmad, Rafat Ali, **Syed Ghulam Razi**, Zoya Shafat, Safia Tazyeen, Aftab Alam, Romana Ishrat. "Mutational and Dynamic studies of FOS and CXCL8 genes to investigate the structural and functional role in the Cardio-renal Syndrome". Manuscript in preparation; submission to Journal X, planned for October 2023.

**Syed Ghulam Razi**, Sonu Chand Thakur, Virendra Singh. "The causes and prevention of cancer and analysis of the global incidence of eight major cancers in the world". Manuscript in preparation; submission to Journal X, planned for December 2023.

Nandula Raghuram, Narendra Sharma, **Syed Ghulam Razi**, Dinesh Kumar Jaiswal. "Genes, Transporter, Transcription factors and the role of post translational modifications in Nitrogen Use Efficiency (NUE) in rice plant: A review". Manuscript in preparation; submission to Journal X, planned for January 2024.

## **LABORATORY AND COMPUTER SKILLS**

- Extraction and purification of plasmid, DNA, RNA, and protein.
- Molecular cloning, Gel Electrophoresis, and PCR.
- Isolation and culture of bacteria and fungi, plant tissue culture.
- Western blotting, SDS-PAGE, ELISA (Enzyme-linked immunosorbent assay).
- Compound microscopy, UV-vis, and Fluorescence spectroscopy.
- CHOPCHOP (CRISPR sgRNA designing).
- MISA (Junk DNA analysis), BLAST, SnapGene, and Py-MOL (Molecular graphic system).
- Autodock Vina, SWISS-MODEL (Homology modelling and structure prediction of proteins).
- Data management and analysis using MATLAB, ImageJ, R.
- Microsoft Office suites (Word, Excel, One Note, and Power point).
- Leadership skills, research presentation and technical writing.
- Languages spoken – Hindi (native), English (conversational).

## **AWARDS AND CERTIFICATES**

- Third prize winner in debate held-on topic "Water Conservation and Rain Water Harvesting" (2019).
- Best student award in interpersonal skills and team spirit award for my overall performance as a postgraduate (2019).
- Participation and hosting National seminar on Biophysics (BIOPHYSIKA 2019).
- Appreciation for successfully participating as a Delegate in RAXTER.IO online workshop (2019).
- Bronze medal for third position in post-graduate degree (2021).

## **PERSONAL INTERESTS**

- Researching (NUE, Sustainable environmental research, CRISPR and more), Experimenting, Computing and more.
- Subjects based – Molecular Biology, Biotechnology, RDT, and more.

- Collecting ball pens and coins (different countries) because it gives a certain satisfaction and sense of ownership – like owning a small museum of your own, no matter the size and prize.
- Reading and writing poetry, Cycling, Board gaming and more.

## **REFERENCES**

### **Prof. N. Raghuram**

Professor and former Dean,  
University School of Biotechnology,  
GGSIU Sector 16C, Dwarka, Delhi, India.  
**Email:** [raghuram@ipu.ac.in](mailto:raghuram@ipu.ac.in)

### **Dr. Ranjith Kumar C.T**

Professor,  
University School of Biotechnology,  
GGSIU Sector 16C, Dwarka, Delhi, India.  
**Email:** [ctrkumar@ipu.ac.in](mailto:ctrkumar@ipu.ac.in)

### **Dr. Syed Shams Yazdani**

Group Leader,  
Microbial Engineering Group,  
International Centre for Genetic Engineering and Biotechnology (ICGEB),  
New Delhi, India.  
**Email:** [shams@icgeb.res.in](mailto:shams@icgeb.res.in)