

SAMIYA KHAN
R123, street number 6
Laxmi Nagar
New Delhi-110092
India
E-mail: samiyakhan28@gmail.com Contact
No: 7835924548

EDUCATIONAL QUALIFICATIONS:

- PhD** **Jaypee Institute of Information Technology**
Environmental biotechnology, Completed: July 2019
- M.Sc.** **IFTM University, Moradabad, India**
Biotechnology, Completed: June 2013
- B.Sc.** **IFTM, Moradabad, India**
Biotechnology, Completed: June 2011

RELEVANT COURSES UNDERTAKEN DURING MASTERS AND BACHELORS DEGREES:

Molecular Cell Biology, Biochemistry, Plant tissue culture, Principles of Genetics, Microbial Genetics, Advances in Plant Biotechnology, Animal tissue culture, Recombinant DNA Technology, Cancer Biology, Bioinformatics, Biostatistics, Immunology, Protein Engineering, Microbiology, Virology, Cell Biology, Applied Biophysics.

TECHNICAL EXPERTISE:

- Aseptic Techniques: Splenocyte culture, mice dissection, in-vivo study on mice
- Genomics Techniques: Genomic DNA and plasmid DNA isolation, Agarose gel electrophoresis, PCR.
- Genetic Engineering: Bacterial transformation, electroporation, Restriction Digestion and Ligation of DNA.
- Protein Techniques: SDS-PAGE, Western blot analysis, Protein Expression, purification of recombinant proteins.
- Other techniques: ELISA, Gas chromatography, Affinity chromatography.

RESEARCH EXPERIENCE:

(January 2013-May 2013)

M.Sc. Thesis (Molecular Biology):

Title: Cloning, Expression and Purification of recombinant osmotin protein from *Nicotiana tabacum* and its mutants

Allergy and Immunology Lab, CSIR- Institute of Genomics and Integrative Biology (IGIB), New Delhi, *Supervisor: Dr Naveen Arora*

(April 2014- May 2015)

Jaypee Institute of Information Technology (DBT-JRF), Noida, India

Title: Development of biocatalyst for dearomatization of diesel

Project Investigator: Dr Nidhi gupta

(August 2014 – July 2019)

Doctoral Study

Title: Development of biocatalyst for refining of diesel

Supervisor: **Prof. Sanjay Gupta and Prof. Pammi Gauba**

(May 2015- July 2017)

Teaching Assistantship

RESEARCH PUBLICATIONS:

- **Khan S.**, Adhikari D.K., Gupta S., Gupta N., "High-level expression, purification and characterization of carbazole dioxygenase, a three components dioxygenase, of *Pseudomonas* GBS.5", *Biotechnology Letters*, vol. 37, no. 10, pp. 1945–1952; 2015.
- **Khan S.**, Adhikari D.K., Gupta S., Gupta N., "Degradation of Carbazole, Dibenzothiophene and Polyaromatic hydrocarbons by recombinant *Rhodococcus* sp." *Biotechnology Letters*, vol. 39, no. 2, pp. 277-281, 2016.
- **Khan S.**, Gupta S, Gupta N, "Dearomatization of diesel oil using *Pseudomonas* sp.", *Biotechnology Letters*, vol. 40, no. 9-10, pp. 1329-1333, 2018.
- Kaur H., **Khan S.**, Gupta S., Gupta N., "Diesel oil degradation using biosurfactant produced by *Pseudomonas* sp." *Journal of Advances in Biology and Biotechnology*, vol. 8, pp. 1-9; 2016.
- Gupta N, Skinner K.A, **Khan S**, Edirisinghe J.N, Henry C.S., "Draft genome sequence of *Enterobacter* sp. strain A8, a carbazole degrading bacterium" *Microbiology resource announcement*, DOI: 10.1128/MRA.00301-19, 2019.

CONFERENCES:

- Khan S., Adhikari D.K., Gupta S., Gupta N., "Expression and Solubilization studies of Carbazole Dioxygenase in *E. coli*" in South Asian Biotechnology conference organized by South Asian University, New Delhi, India held from 12th - 14th February 2015. (*Poster presentation*)
- Khan S., Adhikari D.K., Gupta S., Gupta N., "Cloning and Expression of Oxygenase in *E. coli*" in 56th AMI Annual Conference of Association of Microbiologists of India (AMI-2015) organized by Jawaharlal Nehru University, New Delhi, India held from 7th - 10th December 2015. (*Poster presentation*)

- Khan S., Adhikari D.K., Gupta S., Gupta N., "Cloning and Expression of Ferredoxin reductase gene in *E. coli*" in National Conference on Recent Trends in BECBAB, organized by Jawaharlal Nehru University, New Delhi, India held from 28th November 2015. (*Poster presentation*)

LANGUAGE PROFICIENCIES:

Fluent in speaking and writing English and Hindi.

REFERENCE

Dr. Nidhi Gupta

Argonne national laboratory

Email: ngupta@anl.gov

Phone: +1224.334.0127

Prof. Pammi Gauba

Jaypee institute of information technology

Email: pammi.gauba@jiit.ac.in

Phone: +91-9810389717

Samiya Khan