

## MIMANSA GOYAL, MS

PhD. Candidate, Pharmaceutical Sciences College of Pharmacy and Health Sciences, St. John's University  
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[LinkedIn Profile](#); [Google Scholar Profile](#); [PubMed Bibliography](#)

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### EDUCATION

**Ph.D., Pharmaceutical Sciences (Industrial Pharmacy)** **September 2020- May 2025**  
St. John's University, Queens, New York

**M.S. in Biotechnology** **September 2018-May 2020**  
St. John's University, Queens, New York

**B.S. in Biotechnology** **August 2014- May 2018**  
Jaypee Institute of Information Technology, New Delhi

### RESEARCH TECHNIQUES

- Peptide synthesis
- Design of experiments (DoE)
- Fabrication of drug delivery systems
- Cell culture studies
- Ultra-performance liquid chromatography
- Gel electrophoresis and SDS PAGE
- Nuclear magnetic resonance (NMR)
- Molecular Modeling
- 3D Printing
- Western Blotting

### RESEARCH EXPERIENCE

**St. John's University, Queens, New York** **September 2018 – Present**  
Preceptor/Mentor: Dr. Vivek Gupta

- DoE based nanoparticle optimization of Fasudil to treat non-small cell lung cancer
- Nanotechnology based repositioning of an anti-viral drug to treat non-small cell lung cancer
- Eudragit L-100 based nanoparticles for oral delivery of Insulin

**Jaypee Institute of Information Technology, New Delhi** **August 2017-April 2018**  
Preceptor: Dr. Priyadarshini Pathak, PhD.

- Worked on herbal cure for the urolithiasis by utilizing *Ocimum sanctum*, *Boerhavia diffusa*, *Bryophyllum pinnatum*, *Macrotyloma uniflorum* plants possessing high therapeutic efficacy than the allopathy

**Freie University of Berlin, Berlin** **December 2016- June 2017**  
Preceptor: Dr. Roland Bodmeier

- Evaluated human brain activities which are under the influence of human gut microbiota and analyzed how consumes food influences several transmitters/chemicals by crossing the blood-brain barrier

**Jawaharlal Nehru University, New Delhi** **March 2016-October 2016**  
Preceptor: Dr. Kamal Rawat

- Analyzed interaction between drug and receptor using repositioned drug Harmful/side effects caused and evaluated the metabolism and efficacy of the new drug and comparing properties with the old drug

**Ural Federal University, Ekaterinburg, Russia**

**September 2015-December 2015**

Preceptor: Dr. Dmitrii Valer'evich

- Worked on an Anti-Cancerous drug Mechlorethamine showing that it is effective only towards treating the symptoms of cancer but not the cancer as a whole.

### **PROFESSIONAL EXPERIENCE**

**St. John's University, Queens, New York**

**January 2020- May 2020**

**Graduate Intern**

Preceptor Dr. Vivek Gupta

- Worked as an intern on the project Eudragit L-100 based nanoparticles for oral delivery of Insulin using DoE based approach

**SRL Diagnostics (Ranbaxy lab), India**

**September 2014- July 2018**

**Research Associate**

- Studied and researched on new and conventional drugs based upon their structure and functions
- Remodeled and repurposed anticancer drugs using proprietary software

**Keck Graduate Institute, Claremont, California**

**June 2017- August 2017**

**Internship**

- Worked as an intern in the field of Bioprocessing and microbiology involving intensive training
- Utilized CHO cells for research work carried out on genetics, gene expression and toxicity screening

### **PATENT APPLICATION**

Gupta V, **Goyal M.** Formulations for Oral Delivery of Polypeptides. (*Provisional Patent filed April 15, 2020 by ProdigY Biotech*). Application # 63/010,224

### **POSTERS**

**Goyal M.**, Parvathaneni V (Grad)., Gupta V\*. *Nanotechnology-based Repositioning of an anti-viral drug for Non-small cell lung cancer (NSCLC)*. 11th annual Dr. Charles I. Jarowski symposium, St. John's University, May 2019, Queens, NY.

### **PUBLICATIONS**

1. Parvathaneni V, **Goyal M.**, Kulkarni NS, Shukla SK, Gupta V (2020). Nanotechnology Based Repositioning of an Anti-Viral Drug for Non-Small Cell Lung Cancer (NSCLC). *Pharmaceutical Research* 37(7):123
2. Elbatanony R., **Goyal M.**, Gupta V. *Nanocarriers as delivery cargoes for food bioactive and nutraceuticals*. (In Revision)
3. **Goyal M.**, Parvathaneni V., Gupta V. *Regulatory Aspects and Utility of Quality by Design [QbD] in Drug Delivery Systems Fabrication*. (In Revision)