

# CURRICULUM VITAE

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## **Parul Sharma**

Integrated B.Tech + M.Tech Biotechnology

School of Biosciences

Apeejay Stya University

Sohna-Gurgaon, Haryana

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## **OBJECTIVE**

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Seeking entry – level opportunity in Pharmaceutical and Biotechnology area.

## **INTERNSHIPS**

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- 2 weeks training in the Radicura Pharmaceuticals Pvt. Ltd. in their production and quality control department.
- 7 months dissertation training in virology department of Translational Health Science and Technology Institute (THSTI).

## **PROJECTS**

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- In silico approach for the identification of potential drugs against COVID19.  
10 drugs were selected and docked against three protein of SARSCoV-2: envelope protein, nucleoprotein and Replicase polyprotein. Results were analyzed with the help of discovery studio and drug for each protein with high docking score was considered as a potential drug candidate.
- Computational study of Glucocerebrosidase with its substrate and fascilator protein Saposin - C.  
Objective of this study was to understand the interaction between glucocerebrosidase and its fascilator protein Saposin – C. The interaction and structural changes in glucocerebrosidase when docked with glucocerebrosidase was determined and mutations in the amino acids of glucocerebrosidase was also studied which causes Gaucher,s disease.
- Analysis of structure of enzyme lipAMS58 isolated from psychrophilic Pseudomonas sp. Strain AMS8 through molecular dynamics simulation.  
Structure of lipase enzyme of psychrophilic bacteria Pseudomonas sp. Strain

AMS8 was analysed through molecular dynamics at different temperatures. Its main objective was to see which part of enzyme is flexible and stable at different temperature and at what temperature lipAMS58 is functional and stable.

- Generation and characterization of luciferase – reporter replicon of SARS-CoV-2. Engineering of a non – infectious replicon which doesn't have spike protein region in it that is responsible for the entry of viral genome into host cell. In place of spike protein region, gene of Gaussia luciferase (Gluc) is inserted. This replicon can be used to study events related to virus transcription, replication translation of viral proteins and synthesis of viral subgenomic RNAs. It can also be used to produce pseudo virus, which can be handled in biosafety level 2 (BSL2) laboratory and used for investigating the virus entry.

## ACADEMIC QUALIFICATION

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Year	Program	University /Board	Percentage
2015	Secondary Examination (10 <sup>th</sup> )	C.B.S.E	91.2%
2017	Higher Secondary Examination (12 <sup>th</sup> )	C.B.S.E	82%
2017 – 2022	Integrated course (Btech. +M.tech) in Biotechnology	Apeejay Stya University	80.23%

## COMPUTER INTELLECT

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- Operating Systems; WINDOWS 98/XP/7/8/9/10/10.1
- Proficiency in operation of personal computers and software packages like Microsoft Office, MS Excel & MS PowerPoint Presentations.
- Bioinformatics software for molecular docking, molecular dynamics, homology modeling, PyRx, discovery studio, MEGA and some online database servers too.
- Other software related to research such as Mendley, Snapgene.

## WORKSHOPS

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- Attended Hands-on Lecture Workshop on “Cloud based Bioinformatics Tools in Healthcare” at ASU, 2017

## **SEMINARS AND CONFERENCES**

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1. Participated in the exhibition and conference organized by exhibitions India pvt.ltd. at pragati maidan, New Delhi.
2. Participated in INDO-UK symposium on precision medicine: genes, environment and the data challenge on 8-9<sup>th</sup> march organized by school of biosciences, APEEJAY STYA UNIVERSITY DELHI-NCR, sponsored by ICMR, UCOST.
3. Attended national symposium on Development of technology for nation building and defense, Apeejay Styta University, Gurugram, Haryana, 2018 sponsored by DRDO-DELHI, Ministry of Health.
4. Attended national Seminar on Nanomedicine & Nanotechnology in Healthcare, School of Pharmaceutical Sciences, Apeejay Styta University, Gurugram, Haryana, 2018.
5. I had attended various seminars organized by Apeejay Styta University during lockdown, 2020.

## **STRENGTHS**

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- Punctuality
- Discipline
- Communication
- Strong Determination Power
- Leadership and good teamwork skills

## **PERSONAL INFORMATION**

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Date of birth: 28.03.2000  
Nationality: Indian  
Sex: Female  
Languages Known: English & Hindi  
Address: Faridabad, Haryana

### **Declaration:**

I hereby declare that all the information given above by me is true to the best of my knowledge and based on records

**Parul Sharma**