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## Pakhi Gupta

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Urmila Foods PVT. LTD. Ghuria bagh, Bombay wala petch, Udai Singh Jain Road, Aligarh, Uttar Pradesh - 202001  
9667955252 | guptapakhi25@gmail.com  
🌐 <https://pakhi31.github.io/cv/>  
**in** <https://www.linkedin.com/in/pakhi-gupta-3895a7185>

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### Objective

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Motivated and highly productive Biochemist seeking to leverage upcoming biochemistry degree as well as put my learning into practice to be a part of progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the field of research and development with sheer dedication and hardwork.

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### Education

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- **Jamia Hamdard**  
M.Sc. Biochemistry  
Awaited  
2023
- **Sharda University**  
B.Sc. (Hons) Biochemistry  
8.1  
2021
- **Gagan Bharti Public School**  
Senior Secondary  
69  
2018
- **A.M.U. Girl's High School**  
Matriculation  
9.4  
2016

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### Research Experience

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- **International Centre for Genetic Engineering and Biotechnology**  
Dissertation Trainee  
Supervisor: Dr. Asif Mohammed, Group leader, Parasite Cell Biology Group, ICGEB, New Delhi.  
February 2023 - July 2023
  - Thesis: ANTI-PARASITIC EFFICACY OF A BORON COMPOUND USING IN VIVO MICE MALARIA MODEL
  - The core purpose of this study was to assess the effect of borax on growth of parasite, in Plasmodium berghei infected mice.
- **Lido learning**  
Web Content writer (Biology, Chemistry and Physics)  
June 2022 - August 2022
  - Worked as Content Intern at Quality Tutorials Pvt. Ltd (LIDO).
  - Uploaded the content (QA and various video lectures) on their official website.
- **Sharda University**  
Supervisor: Dr. Vivek Shrivastava, Department of Chemistry and Biochemistry, Sharda University, Greater Noida, U.P.  
December 2021 - July 2022
  - Title: Telomerase and its inhibitor in cancer therapeutics: Current status and future perspective.
  - Literature research about Telomerase enzyme and its natural inhibitors in cancer therapeutics.
- **Sharda University**  
Dissertation Trainee  
Supervisor: Dr. Vivek Shrivastava, Department of Chemistry and Biochemistry, Sharda University, Greater Noida, U.P.  
October 2020 - April 2021
  - Thesis: Targeted therapies in Breast cancer.
  - The study explores about breast cancer, its causes, precautions, prevention and an elaborate discussion about targeted therapies to eliminate tumor cells such as carbon dots, liposomes and CRISPR-CAS9.
- **Sharda University**  
Supervisor: Mr. Paratpar Sarkar  
Title: Health and Hygiene: community connect survey.  
July 2019 - August 2019
  - This study included on-site visits in rural areas, taking surveys, create awareness about health and hygiene, different government schemes, analysing the result by standard data sources.

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### Publications/Book Chapters

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- Srivastava, V., Siddiqui, S., Dhondiyal, A., Gupta, P., Yadav, A. (2022). Telomerase and its Inhibitor in Cancer Therapeutics: Current Status and Future Prospective. In: Maheshwari, V.L., Patil, R.H. (eds) Natural Products as Enzyme Inhibitors. Springer, Singapore. [https://doi.org/10.1007/978-981-19-0932-0\\_10](https://doi.org/10.1007/978-981-19-0932-0_10)

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### Achievements & Awards

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- "2nd position" in Chemistry-in-house Symposium (CiHS -21) organized by the Department of Chemistry & Biochemistry, Sharda University on 26th April, 2021.

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## Skills

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- **Lab skills**

- **Biochemical techniques:** Electrophoresis - agarose & polyacrylamide gel (SDS and Native-PAGE), Western blotting, Protein purification, UV spectrophotometer, Nanodrop spectrophotometer, Chromatography - Gel filtration, paper, Different spectroscopy based protein specific assay, Quantitative and qualitative analysis of biomolecules
- **Microbiology techniques:** Growth curve studies, Staining methods such as Gram staining, Giemsa staining, Streaking, Preparation of LB agar plates and LB media
- **Molecular biology:** Isolation of miRNA from animal and human plasma and serum using miRNeasy serum/plasma kit, Polymerase chain reaction (PCR), qPCR, RT-PCR
- **Animal cell culture:** Cell thawing, Cell passaging, Cryopreservation, Cell counting
- **Immunology:** Ouchterlony (double immuno-diffusion), ABO blood group determination, Preparation of blood smear, Isolation of IgG antibody from egg white
- **Animal handling**

- **Excellent in equipment handling**

- **Computer skills**

Microsoft office (MS Word, MS PowerPoint, MS Excel)  
Basic knowledge of python programming

- **Basic knowledge in Bioinformatics**

BLAST, FASTA, NCBI

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## CONFERENCE/SEMINAR AND SYMPOSIUM

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- "Chemistry in-House Symposium 2021" (CiHS- 21) on "Research work of young researchers" organised by Department of Chemistry and Biochemistry, School of Basic Science and Research, Sharda University on 26.04.2021.
- "Saksham" workshop to "develop best performer" organised by Department of Chemistry and Biochemistry, School of Basic Science and Research, Sharda University on 01.06.2020.
- 4 days Workshop on "Research Methodology: Learning tools in Research" organised by Department of Chemistry and Biochemistry, School of Basic Science and Research, Sharda University August 7th -10th, 2020.
- Attended a workshop on "Basic Bioinformatics: Tools and Technique"

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## Certifications

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- Professional Diploma in Clinical Research (PDCR) from CATALYST Clinical Services PVT. LTD.; New Delhi
- "Human Physiology" from COURSERA.

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## Interests

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- Quality check and control.
- Research and development.
- Sketching

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## Languages

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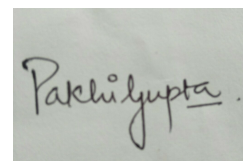
- English, Hindi, Urdu

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## Declaration

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- I do hereby declare that the above information is true to the best of my knowledge.



PAKHI GUPTA