

## CURRICULUM VITAE

**Dr. Priyanka Gupta, Ph.D.**

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### Profile:

A goal-oriented researcher with six years of bench-work experience (wet lab) with Biochemistry background. I am skilled in molecular diagnostics, molecular biology, biochemical and biophysics techniques, data interpretation, and scientific writing, looking for a challenging and rewarding position in an organization.

### Educational Qualification:

- **Ph.D. in Life Sciences:** All India Institute of Medical Sciences, New Delhi in 2021.
- **B.Ed. in Biological Sciences:** Bundelkhand University in 2013 with 72.3%
- **M.Sc. in Biochemistry:** Bundelkhand University in 2010 with 78.3%.
- **B.Sc. in Ind. Microbiology & Chemistry:** Bundelkhand University, 2008 with 68%.
- **Certificate Course on ISO 15189:2012 Medical Laboratories** – Requirements for quality & competence and internal audit course.
- **Certificate training program-** Fundamentals of Computers (July 2011-Dec 2011)

### National/State Level Exams:

- Qualify GATE Life Science 2012 with score 361 and AIR 965.
- Qualify Uttar Pradesh Common Eligibility Test-Ph.D.-2012.

### Work Experience and Employment details

Institute/Company	Designation and Department	Duration	Areas of work
Haffkine Institute, Mumbai	<b>Research Associate</b> <b>Dept of Biochemistry &amp; Cell Biology</b>	24 <sup>th</sup> Feb 2022 – till date	Genomics (WGS, NGS), Bioinformatics & ATC
Spice Health Pvt. Ltd., Mumbai	<b>Senior Scientific officer</b> <b>Department: Lab Operation</b> (ICMR & NABL Certified diagnostic Lab)	4 <sup>th</sup> Feb 2021-16 <sup>th</sup> Sep 2021 (7 Months, 12 days)	Virology (Covid-19 RT-PCR), Molecular Biology LIMS, Quality Control
AIIMS, New Delhi	<b>Laboratory Technician</b> <b>Clinical Biochemistry Division</b> Department of Laboratory Medicine	9 <sup>th</sup> April 2014 – 2 <sup>nd</sup> April 2015 (11 months, 24 days)	Clinical Biochemistry Data interpretation and Reporting

### Research Experience:

Institute	Designation and Department	Project Title and duration	Areas of work
Haffkine Institute, Mumbai	<b>Research Associate</b> <b>Dept of Biochemistry &amp; Cell Biology</b>	Genome Sequencing of SARS Cov-2 24 <sup>th</sup> Feb 2022 – till date	Genomics, Virology, Bioinformatics
AIIMS, New Delhi	<b>Ph.D. Research Scholar</b> <b>Dept. of Laboratory Medicine</b> (Principal Investigator: Prof. M. Irshad & Dr. Sudip K. Datta)	“Development of Multiplex real time PCR (qPCR) assay for simultaneous detection of hepatitis viruses (A-G) in serum” 3 <sup>rd</sup> Aug 2015 - 25 <sup>th</sup> March 2021 (5 Years, 7 Months)	Molecular Biology, Virology (Hepatitis), Biochemistry, Bioinformatics
IITR, Lucknow	<b>Trainee (M.Sc. Dissertation)</b> <b>Metal Analysis Laboratory</b> (Principal Investigator: Dr. Nasreen Gazi Ansari)	“Assessment of Chemical, Biochemical and Phytotoxic properties of Soil Influenced by Heavy Metals” 11 <sup>th</sup> Jan 2010 - 10 <sup>th</sup> June 2010 (6 months)	Analytical Chemistry, Metal Analysis, Biochemistry, Phytotoxicity, Enzymology
Biotech Park, Lucknow.	<b>Trainee</b> <b>HH Biotechnologies Pvt. Ltd.</b>	“Biotechnology & Bioinformatics” (Industrial training program) 1 <sup>st</sup> June 2009 –30 <sup>th</sup> June 2009 (1 months)	Biotechnology (PTC) Molecular Biology, Bioinformatics

### Technical Experience and Skills:

- Genome Sequencing of SARS Cov-2 using ONT platform, Cell culture and cloning (ATC; Vero cells & PTC; callus culture).
- Experiment design, laboratory instrument and assays validation, PCR, RT-qPCR, Multiplex RT-PCR (MX3005P), Isolation of DNA and RNA, Gel Electrophoresis (Agarose and SDS-PAGE), Protein Purification, Western Blot, Immunological assays; ELISA and CLIA, Primers and Probes designing for detection of different viruses (singleplex to multiplex), Bioinformatics tools; Multiple sequence alignment, BLAST, FASTA, Crustal Omega and Graph pad prism 6.
- Covid-19 RT-PCR testing (BioRad), analysis and final reporting, Laboratory Operational Management, Team lead, LIMS, ISO 15189: 2012, ISO 9001.
- Clinical biochemistry parameters using Automatic analyzers
- Enzymatic activity determination with UV-Vis, Analysis of Biochemicals, Heavy metal analysis using AAS and ICP, Nano-drop, Bioassay (Phytotoxicity) technique, Dry heat and Microwave digestion, Thin Layer, Size exclusion and Affinity Chromatography, pH meter, conductivity, melting point, Titrations.

**Qualified Awards/Grants/Scholarship:**

- Scholarship provided by organizer of ISSHID-2019 held on 12<sup>th</sup> - 14<sup>th</sup> Oct 2019 in Chennai, India.
- DBT-CTEP travel grant awarded to attend a conference on “5th International Viral Hepatitis Elimination Meeting” Amsterdam, Netherlands, 7<sup>th</sup> - 8<sup>th</sup> December 2018.
- Young investigator IVHEM registration grant: by the Virology Education, organizers of IVHEM-2018 held on December 2018 in Amsterdam, The Netherlands.

**Publications:**

- Irshad M, **Gupta P**, Mankotia DS, Ansari MA. Multiplex qPCR for serodetection and serotyping of hepatitis viruses: A brief review. World J Gastroenterol. 2016; 22: 4824-34. PMID: 27239109. DOI: 10.3748/wjg.v22.i20.4824. (IF: 5.742, Citation: 10)
- Irshad M, **Gupta P**, Irshad K. Molecular basis of hepatocellular carcinoma induced by hepatitis C virus infection. World J Hepatol. 2017; 9: 1305-1314. PMID: 29359013. DOI: 10.4254/wjh.v9.i36.1305. (IF: 0.858, Citation: 43)
- Irshad M, **Gupta P**, Irshad K. Molecular targeting of antiviral drugs used against hepatitis C virus infection. Hepatoma Res 2018; 4: 23. DOI:10.20517/2394-5079.2018.25 (Citation: 6)
- Irshad M, Mankotia DS, Irshad K, **Gupta P**. Viral hepatitis in India: Status. Gastroenterol Hepatol Endosc 2018; 3(1): 1-5. DOI: 10.15761/GHE.1000153 (Citation: 1)
- Irshad M, **Gupta P**, Irshad K. Immunopathogenesis of Liver Injury During Hepatitis C Virus Infection. Viral Immunol. 2019 Feb 28. DOI: 10.1089/vim.2018.0124. PMID: 30817236 (IF: 2.257, Citation: 15)

**Conference publication:**

- **Gupta P**, M Irshad, Datta SK. Standardization of TaqMan probe based Hexaplex qPCR Assay for Simultaneous Detection of Hepatitis A-G Viruses. Abstract published in BMC Infect Dis 20, 324 (2020). DOI: 10.1186/s12879-020-05038-y
- Shekhar S, **Gupta P**, M Irshad. Status of HCV genotypes in patients with different liver diseases using multiplex real time PCR. Abstract published in Ind J Clin Biochem 31, 1–129 (2016). DOI:10.1007/s12291-016-0628-z

**Declaration:** I hereby declare that all the information provided by me in this application is factual and correct to the best of my knowledge and belief.

***Dr. Priyanka Gupta***