

Smritee Singh

Female, 32

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SUMMARY

A highly competent, pro-active and result-oriented professional; Dynamic and self-starter demonstrating hands-on approach to analytical & critical thinking to arrive at a solution. Ethical, loyal and maintains a high degree of confidentiality towards the organization.

- Seeking a teaching position in an esteemed and progressive organization in the field of Biotechnology/Forensic Science
- **M.Sc, Biotech Grad** supplemented by **Post Graduate Diploma in Forensic Science** having a strong dissertation along with a research publication in the **BioImpact (Impact factor- 3.23)**
- Very strong academic background with credentials from India's reputed educational institutions (**Delhi University – S. G. T. B Khalsa College, Dr. D. Y. Patil University– D. Y. Patil Biotechnology and Bioinformatics Institute, Pune**)
- Possess a very strong communication and presentation skills with a Go-getter attitude.

ACADEMIC QUALIFICATION

MSc. Biotechnology	July, 2014	D.Y. Patil Biotechnology and Bioinformatics Institute,	69.06%
PG Diploma, Forensic	July, 2012	S. G. T. B Khalsa College, Delhi University	70.3%
BSc.(H) Zoology	July, 2011	S. G. T. B Khalsa College, Delhi University	60%
Class XII	May, 2008	Delhi Public School, Digboi (CBSE)	77 %
Class X	May, 2006	Delhi Public School, Digboi (CBSE)	85.6%

TOOLS & COMPETENCY MATRIX

Tools/Instruments & Techniques: UV-Vis Spectrophotometer, Dynamic Light Scattering (DLS), Electrophoresis (SDS-PAGE), Polymerase chain reaction (PCR), ELISA plate reader, Centrifuge, Sonicator, pH meter, autoclave; Microsoft Office Suite (Excel, Power-point, Word)

Core Competencies

- Immunological techniques- immunoassays, electrophoresis
- Immunodiagnosics
- Spectrophotometry
- Biochemical analysis techniques
- Molecular biology techniques

PROJECTS & RESEARCH PAPERS

- **Primary teacher, Shri Balaji International School, Kalamboli (Mumbai) June 2020- June 2021**
Role description: Handling science in grades 4th, 5th and 6th in Cambridge Assessment International Education Board and as Class teacher of grade 3.
- **Primary teacher, Indo-Scottish Global School (ISGS), Kamothe (Mumbai) June 2019- April 2020**
Role description: Handling science and mathematics subjects in grade 3-5, Class teacher of grade 4, author in newsletter committee and handling examination conduction.
- **Junior Research Fellow, Amity University, Noida Campus(Delhi NCR) September 2018- March 2019**
Biotechnology Industry Research Assistance Council (BIRAC) funded project
Techniques/ Instruments used: Voltametric techniques (Cyclic voltammetry, Dynamic Pulse voltammetry, Square wave etc.) and FTIR
- **Project Assistant, Amity University, Noida Campus December 2016- June 2018**

Immunodiagnostic project with title “ Effective targeting and imaging of functionalized Gold nanoparticle on uPAR for cancer diagnostics” (DST-SERB funded) Techniques/Instruments used: UV-Vis Spectroscopy, Dynamic Light Scattering (DLS), ELISA, Scanning electron microscopy and Fluorometer. Worked in collaboration with Dr Ashok Kumar (IGIB, New Delhi) and Dr. Bijoy Kumar Kuanr (SCNS, JNU New Delhi)	
➤ Research Assistant, BITS Pilani, Hyderabad Campus	January 2016 – June 2016
Quality control testing of the assay designed to test antibiotic sensitivity for pathogens found in human urine that leads to Urinary Tract infection (UTI) using a point-of-care (POC) device named Rightbiotic (xBITS project)	
➤ <u>Dissertation on “Analysis of cellulase produced by actinomycetes isolated from wastewater effluent [Project]</u> <i>(M.Sc degree programme at Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune)</i> January 2014 – July 2014	
Project Description: Preliminary test for cellulase activity, Total cellulase assay, Optimization of temperature and pH for cellulase activity, Partial purification, protein determination Role Description: Data collection, microbial culture maintenance, performing biochemical assay, statistical data analysis	
➤ <u>Dissertation on “Development of latent fingerprints on Semi-porous wet surfaces by using Phase Transfer Catalyst -Rose bengal dye [Project]</u> <i>(PGDM forensic science programme at S.G.T.B Khalsa College, Delhi University)</i> January 2012 – June 2012	
Project Description: Developing fresh and aged latent fingerprints using TBAI (tetrabutyl ammonium iodide) and Rose Bengal dye (stain) on semi-porous wet surfaces like adhesive tapes, glossy paper etc which cannot be developed by standard fingerprint analysis techniques. Role Description: Data collection, material collection, process execution and result analysis	
RESEARCH PUBLICATIONS	
<ul style="list-style-type: none"> ▪ Chemiluminescence-based immunoassay for the detection of heroin and its metabolites (BioImpacts, 2018, 8(1), 53-58 , doi: 10.15171/bi.2018.07; Impact factor- 3.23) ▪ Preliminary characterization of cellulases from actinomycetes Streptomyces cinnabarinus and Streptomyces globosus isolated from wastewater effluents of pulp industries (International Journal of Innovative Biological Research, 4:1 , 2015) 	

WORKSHOPS AND CERTIFICATIONS	
▪ Attended 5th Winter Institute in Global Health 2016 held at BITS Pilani, Hyderabad Campus	<i>Jan '16</i>
▪ Workshop on Fingerprint Technology held in S.G.T.B Khalsa College, University of Delhi	<i>Mar '12</i>
▪ Training Programme on “Low Carbon Future” through Non-Conventional Energy Sources by Mahatma Gandhi Institute Of Combating Climate Change	
INTERESTS & HOBBIES	
▪ Dancing (Visharad in classical dance Kathak) ▪ Sketching and acrylic painting ▪ Gardening ▪ Travelling	

D.O.B.	26 th July, 1989
Languages	English (Proficient), Hindi (Proficient), Bengali, Assamese
Permanent Address	J4/103, Sai Enclave, Sukapur, New Panvel, Navi /Mumbai, Maharashtra- 410206