Shreya Saha

Research Scholar

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**PROFESSIONAL SUMMARY**

I am a conscientious, devoted and compelling individual with an avid eye as well as an undying thirst for investigation and research. I have hand in hand experience in handling instruments used for DNA Isolation, Quantification, Amplification and Sequencing. I have opened cases , analysed exhibits and inferred results under the guidance of respective scientific officers in our department and I am well versed in different legal sections from the IPC, IEA,CRPC,POCSO and several other acts which are required for the proceedings of such cases. Apart from this I have part time classroom teaching experience as a teacher of physics in the secondary section of a reputed school of Kolkata. I am currently working as a research scholar in the biology division of the Central Forensic Science Laboratory, Kolkata which is affiliated to the Jadavpur University for the award of the doctorate degree, my title of research being, "Genetic diversity of some endogamous populations of West Bengal using forensically important STR markers"

**TECHNICAL SKILLS**

Instrument Handled :- HERAEUS Biofuge Centrifuge, Sigma Centrifuge , Spinix Vortex , Shel Lab Hybridization Oven , Shaking Water Bath , Veriti 96 Well Thermal Cycler , Applied Biosystems Gene Amp PCR System 9700 , Applied Biosystems 3500 Generic Analyzer , ABI Prism 3100 Genetic Analyzer , Ballet Shaker , Automated DNA Extractor , Comparison Microscope , Compound Microscope. • Techniques Performed :- Organic Extraction of DNA From Whole Blood , Body Fluid Stains And Tissues, Skeletal Material Or Teeth, Automated DNA Extraction from Different Biological Samples, Organic Extraction Of DNA From Sperm And Vaginal Cells, Preparation of DNA on FTA paper , Yielding Gel for Assessing Quality and Quantity of Isolated DNA, DNA Quantification by RT-PCR Amplification , Examining The Internal Positive Control , Automated STR Typing by Automated Sequencing , Y STR Typing By Automated Sequencer , STR Typing By Automated Sequencer, Preparation of sample sheets and Plate for Gene Sequencing, Statistical Interpretation by Calculating Paternity Index , Frequency of the Allele in the given population , Likelihood of Paternity Matching of DNA profiles, Random Matching Probability , Preparation of Chemicals Used for the Above mentioned process.

**WORK HISTORY**

* **RESEARCH SCHOLAR, CENTRAL FORENSIC SCIENCE LABORATORY, KOLKATA( Nov 2020- current)**

I am currently working as a research scholar in the biology division of Central Forensic Science Laboratory, Kolkata in Population Genetics. I have also assisted officers in analysing case related exhibits.

* **TEACHER AT BALLYGUNGE SHIKSHA SADAN SCHOOL (August 2019- March 2020)**
* I have worked as a teacher in Ballygunge Shiksha Sadan School and I have taught children Physics in both 9th and 10th standard.
* Graded and evaluated student assignments, papers, and course work.
* Incorporated exciting and engaging activities to achieve student participation and hands-on learning.
* Kept students on-task with proactive behaviour modification and positive reinforcement strategies.
* Communicated frequently with parents, students, and faculty to provide feedback and discuss instructional strategies.
* Supported student physical, mental, and social development using classroom games and activities.

**EDUCATION SUMMARY**

* Qualified Madhyamik Examination from West Bengal Board of Secondary Education securing 91.12% marks (2011)
* Qualified Higher Secondary Education from West Bengal Council of Higher Secondary Education securing 78% marks (2013)
* Qualified Under graduation from University of Calcutta securing first class (68.75% marks) with Zoology honours as major and Botany and Chemistry as Minor (2016)
* Qualified Post Graduation in forensic science securing 8.95 CGPA (first class, distinction) from Banaras Hindu University, Department of Chemistry, 2018
* Qualified UGC NET LS, November, 2017, Forensic Science
* Qualified UGC NET LS, June 2018, Forensic Science
* Qualified UGC NET JRF and LS, December 2018, Forensic Science
* Qualified P.H.D. Course work examination from the department of Life Science and Biotechnology securing 80% marks, Jadavpur University, August, 2021