

PRAGYA SRIVASTAVA

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CAREER OBJECTIVE

Seeking a position to utilize my knowledge, skills, and abilities in the field of biotechnology, that offers competitive environment and gain exposure to upcoming technologies while being resourceful, innovative and flexible.

WORK EXPERIENCE

Feb 2017- present: Freelance Biology Content Developer at Evelyn Learning Systems Pvt. Ltd., Delhi.
Sep 2017- present: Freelance Academic Research Writer at Educrusade Pvt. Ltd., Pune.

ACADEMIC QUALIFICATION

2015-18: MBA Project Management, Sikkim Manipal University (Distance Education).

2011-14: M.Tech Biotechnology with Specialization in **Genetic Engineering**, Gautam Buddha University, Greater Noida.

2008-11: B.Sc Genetics & Genomics, University of Lucknow, Lucknow.

2008: **Intermediate**, CBSE Board, Rani Laxmi Bai Memorial Senior Sec. School, Lucknow.

2006: **High School**, CBSE Board, Rani Laxmi Bai Memorial Senior Sec. School, Lucknow.

PROJECT WORK

- **“Interplay of microRNAs and ELAV family protein HuR in Cancer Progression and Therapeutic Responses”**, under the guidance of Dr. Deepali Singh, Assistant Professor, School of Biotechnology, GBU. **(Review Article)**

Summary: HuR is the central regulator of post-transcriptional gene expression and plays a very important role in cancer. HuR is one of the most important proteins that affect the mRNA stability and translation. The exact mechanisms by which HuR stabilizes these mRNAs are not completely known. Subcellular localization of HuR and its ability to bind mRNAs strongly influence the target mRNA expression. 3'UTR commonly contain multiple conserved binding sites for both miRNA and RNA binding proteins, this shows that the interplay between RNA binding proteins and miRNAs is a key component of gene expression. HuR influence the treatment responses of anti-cancer drugs by stabilization of specific mRNAs. Expression of HuR could be a new mechanism of therapeutic responses in cancer.

- **“Cloning and Expression of C-terminal domain of a putative RNA Helicase”**, under the guidance of Dr. Deepali Singh, Assistant Professor, School of Biotechnology, GBU. **(Dissertation Work)**

During this project work, various Molecular Biology Techniques were used such as, **RNA and Plasmid Isolation, Restriction Digestion ,Ligation and Transformation ,Cloning and Gene Expression , SDS-PAGE & PCR .**

Summary: Helicases are enzymes that unwind duplex DNA and translocate along DNA in reactions that are coupled to the binding and hydrolysis of 5'-nucleoside triphosphatase (NTP). *NIH* (nuclear DEIH-box helicase), encodes a putative helicase with a DEIH sequence in motif II. During this project work, we amplified the carboxy terminal of NIH using cDNA as the template. The amplicon was cloned into bacterial cloning and expression vectors pET-28a and pET-29a. Positive clones were verified by digestion with specific enzymes. DNA from positive clone was mobilised into BL21 cells for protein expression. We tried few conditions to induce the protein in bacterial cells but were not succesful. Hence, further experiments are to be done for its expression in bacterial system. The purified protein will help us understand the biochemical and biophysical characteristics of the protien.

This study can be useful in structural and functional characterization of all the 3 regions of *Arabidopsis* DEIH-box Helicases.

INDUSTRIAL TRAINING

One- Month Hands on Industrial Training with State Of Art Lectures on “**Advanced Molecular Biology**” (5th June- 4th July 2012) at MRD Life Sciences Pvt. Ltd. Lucknow.

COMPUTER PROFICIENCY

Computer Languages	C++, C language
Basics	MS-Word, MS-Excel, MS-PowerPoint
Softwares	BLAST, FASTA, RASMOL

CONFERENCES AND SEMINARS

- Attended **India-France Technology Summit** on 23-24 October 2013, At The Lalit, New Delhi.
- Attended **TED^xGBU “Initiating Change”**, at Gautam Buddha University, Greater Noida.
- Attended A One Day **Symposium On New Horizon Of Basic And Clinical Research** On 16th April, 2012 At JLN Auditorium, AIIMS, New Delhi.
- Attended **Workshop on Entrepreneurship Development Programme** Organized by National Small Industries Corporation Ltd. On 4th February 2012.
- Oral **Presentation On ‘Fragile-X Syndrome’**, at Department Of Zoology, University of Lucknow (during Jan 10th -15th, 2011).

EXTRA CURRICULAR ACTIVITIES

- Co-Ordinated the Dance Event in University Cultural Fest (Abhivyanjana 2011).
- Co-Ordinated the Poster- Making Event on Environment in University Cultural Fest (Abhivyanjana 2013).
- Participated in University Annual Sports Meet “Shauryotsav”, 2013

STRENGTHS AND QUALITIES

- Self Motivated
- Honest
- Quick Learner
- Adaptive To Environment
- Punctual

PERSONAL DETAILS

Husband's Name	Dr. Abhishek Kumar
Date Of Birth	22-07-1991
Gender	Female
Language Known	English, Hindi
Residence	B-88 TRF, BHU Campus, Varanasi

DECLARATION

I do hereby declare that all the information furnished above are complete and correct to the best of my knowledge.

PRAGYA SRIVASTAVA