

SANGEETA SHARMA

e-mail: [sangeetasharma@davchd.ac.in](mailto:sangeetasharma@davchd.ac.in)

**Experience:** July 2005 till date D.A.V College, Sector 10, Chandigarh Assistant Professor, Department of Biotechnology. Teaching Undergraduate students and Postgraduate students  
Supervising Projects and Dissertations

**Skills:** Bioinformatics tools for sequence analysis and homology searching, Gene prediction, Protein Structure prediction, Phylogenetic Analysis, Comparative Genomics, Transcriptomics and NGS analysis, Basic cell biology techniques

**Academics:**

MPhil (2008)- A Comparative Genomics study of the Sulphur Assimilation Pathways

-Post Graduate Diploma in Bioinformatics from Institute of Genomics and Integrative Biology (CSIR), New Delhi (2003).  
Subjects: Web mining, Genome sequencing, Biostatistics, Regulatory circuits, Proteomics Genomics, Microarray analysis

-M.Sc. (Hons.) (2001), Panjab University, Chandigarh.

-B.Sc. (Hons.) (1999), Panjab University, Chandigarh .

Area of Specialization: Comparative Genomics, Phylogenetic Analysis

**Publications**

1. Samriti Dogra<sup>1</sup>, Rajesh Biswas<sup>2</sup>, Rupinderjeet Kaur<sup>1</sup>, Sangeeta Sharma<sup>1</sup>, Kakoli Biswas<sup>1\*</sup>. A novel trypsin inhibitor peptide MoCh I with antimicrobial activity derived from *Momordica charantia* Journal of Applied Biology & Biotechnology Vol. 11(5), pp. 213-220, Sep-Oct, 2023
2. Sangeeta Sharma. Understanding Evolution by Molecular Phylogenetic Analysis: A Review. Research Review Journal. 2019; Vol. 4(1).
3. Sangeeta Sharma. Comparative Genomics studies of Insect Genomes with Selected Model Organisms to analyze Sulphur Metabolism. 2018. RESEARCH REVIEW; 3(10), 1418-1429
4. Sangeeta Sharma. Sulphur Assimilation Pathways in Model Eukaryotes: A Review. Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical life sciences. 2018; 4(5), 850-856
5. Sangeeta Sharma. *Insilico* Functional Annotation of a Hypothetical Protein (Rv0123) from *Mycobacterium tuberculosis*. RESEARCH REVIEW. 2018; 3(9):1282-1289
6. Sangeeta Sharma. *Insilico* insights in the functional characterization of Calreticulin protein; 2018, Research Review: International journal of Multidisciplinary; 3(3): 365-372
7. *Insilico* Evolutionary studies of the Calreticulin protein in selected organisms; 2018, Research Review: International journal of Multidisciplinary; 3(6):746-751
8. 14-3-3 Protein: Phylogenetic and protein interaction, an *Insilico* analysis; 2016; Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical sciences; 1(6):343-349.
9. Neha Mago, Sangeeta Sharma (2016). Functional analysis of Cadherin Protein- an *insilico* approach. International J Neosciences; 3(2): 54-60.
10. *Insilico analysis* of the MRP1 Protein implicated in Neuroblastoma; 2015; Research Hub International Journal of Multidisciplinary Research; 2(4)
11. Anil Kumar, Sangeeta Sharma (2015). An *insilico* analysis on the evolutionary studies of Profilin protein in Apicomplexan species and selected model organisms. International J Neosciences; 2(2)

**Papers presented in National Symposia/ UGC Sponsored Conferences**

1. Presented a poster entitled "Role of Hidden Markov Model in Gene Prediction", in one Day National Workshop on "The

recent advances in Neo-Sciences” organized by Abdul Kalam Physics Society, DAVC, Sec-10, Chandigarh on February 8, 2019.

2. National Symposium on Microbial approaches organized by Dept of Microbiology, PU(March 5, 2018)
3. National Symposium and Workshop on Waste Management”- Present scenario and challenges on 3<sup>rd</sup> Oct, 2018 organized by AMI Chd Unit and Department of Biotechnology DAV College, Chandigarh.
4. UGC Sponsored National Conference on Recent Advances of *In Silico* Analysis: Role in Plant Stress Biology(27-28 Oct 2016)
5. National Symposium on Forensic Biotechnology (Sept 30, 2016)
6. National Symposium on “Current Trends and Future Prospects in Biotechnology”(Nov 11-12, 2016)

### Orientation Course/ Refresher/ FDP

Refresher Course in Biological Sciences	UGC Academic Staff College at Panjab University	21 days(13 <sup>th</sup> May to 2 <sup>nd</sup> June2011)
Refresher Course in Bioinformatics	USOL, Academic Staff College, Panjab University	21 days (10.6.2014 to 30.6.2014)
Faculty Development Programme on “Data Analytics and Big Data”	UIET, Panjab University, Chandigarh Sponsored by TEQIP-II.	7 days (May 2016)
Faculty Development Program under RUSA	DAV college, Sector10, Chd	22 <sup>nd</sup> Feb to 28 <sup>th</sup> Feb 2016
FDP on “E- content: Design, Development and Delivery”	DAV college, Sector-10, Chd	21-25 <sup>th</sup> July 2020.
Faculty Development Programme on “Integrated Approaches in Biological Science”.	DAV college, Sector-10, Chd	22-28 <sup>th</sup> Feb 2022

### Conferences/ Symposia/ Seminar/ Workshops

S.No	Year	Workshops/ Conferences/ Symposia	National/ International
1.	2015-2016	Attended a one day workshop cum Seminar on “Statistical Methods and Analysis” organized by D.A.V., Sec-10, Chandigarh Research Cell on 14 <sup>th</sup> Jan, 2016 Attended a National Workshop on “Hands on Training on Fermentative Technology for the production of value added products organized by Department of Food Science, MCM DAV College and AMI from 5 <sup>th</sup> to 7 <sup>th</sup> March, 2016.	

--	--	--	--



4	2018-2019	<p>Presented a poster entitled “Waste Management- Present scenario and challenges” on 3<sup>rd</sup> Oct, 2018 in National Symposium and Workshop on Waste Management”- Present scenario and challenges on 3<sup>rd</sup> Oct, 2018 organized by AMI Chd Unit and Department of Biotechnology DAV College, Chandigarh.</p> <p>One Day Workshop on “Learning Physics through Experiments” organized by Abdul Kalam Physics Society DAV College Chd on 15<sup>th</sup> October, 2018</p> <p>Attended a symposium on Translational Aspects of Biomedical research organized by PGIMER, Chandigarh on December 4, 2018.</p> <p>Participated and attended in one day Seminar &amp; National Science Day Celebrations organized by the department of Biotechnology and Bioinformatics from 26<sup>th</sup> to 28<sup>th</sup> February, 2018</p> <p>Presented a poster entitled “Role of Hidden Markov Model in Gene Prediction”, in one Day National Workshop on “The recent advances in Neo-Sciences” organized by Abdul Kalam Physics Society, DAVC, Sec-10, Chandigarh on February 8, 2019.</p> <p>Attended and presented a poster entitled “Role of Metal Nanoparticles against microbes”, in National Science day celebrations on 26<sup>th</sup>-28<sup>th</sup> February, 2019 organized by DAVC, Sec-10, Chandigarh.</p> <p>National Symposium on Biotechnology: Trends and Innovations organized by Department of Biotechnology (Star College Scheme, DBT), GGSDS college, Chandigarh on 12<sup>th</sup> March 2019.</p>	National
	2019-2020	<p>FDP on Data Analytics using R, organized by Jaipuria Institute of Management, Jaipur at Panjab University, Chandigarh on 12<sup>th</sup> Dec 2019.</p> <p>Capacity Building Workshop under the aegis of RUSA, UT, on Medicinal Plants organized at DAV College, Chandigarh on 7-8<sup>th</sup> Feb 2020.</p> <p>Effective Utilization of E-resources through J- Gate organized at DAV College, Chandigarh on 7<sup>th</sup> May 2020.</p>	

		<p>Webinar on Academic integrity role of online citation builders and paraphrasing tools organized at DAV College, Chandigarh on 22<sup>nd</sup> May 2020.</p> <p>National Webinar on “COVID-19: Insights from the Mysterious Novel Virus SARS-Cov2 organized at Department of Biotechnology DAV College, Chandigarh on 5<sup>th</sup> June 2020.</p> <p>Women and the UN Sustainability Development and goals (Agenda 2030) on 17<sup>th</sup> June 2020.</p> <p>Covid 19: Facts and myths organized at Department of Biotechnology DAV College, Chandigarh on 10<sup>th</sup> June 2020.</p> <p>N- LIST Facilitating E- Resources, Promoting Knowledge and Research through college Libraries on 23<sup>rd</sup> June 2020.</p> <p>Webinar on National Education Policy 2020 on 22<sup>nd</sup> Sept 2020.</p>	
	2022-2023	<p>Attended Hands on Workshop on Molecular Docking organized by Department of Biotechnology and Chemistry on 18th May 2022.</p> <p>Attended a lecture session on the “Conservation of Microbial Diversity and Antimicrobial Resistance” on 23rd Nov 2022 by ASM, USA and Microbiologists Society, India.</p> <p>As a Member Board of Studies in the Department of Systems Biology and Bioinformatics, Panjab University, Chandigarh.</p> <p>Judged the events of Science Rangoli and Poster presentation on the occasion of National Science Day organized by DAV College, Sector 10, Chandigarh on 28<sup>th</sup> Feb, 2023</p> <p>In charge, Heritage Club. In all, 13 Students were awarded 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> positions in Zonal Youth Festival 2022-23 in various Heritage events organized by Panjab University.</p>	