

**CHANDER JYOTI**  
**Assistant Professor**  
Department of Bioinformatics  
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**DOB: 9<sup>th</sup> March 1987**



### **Educational Qualifications**

Qualified December 2013 CSIR NET-LS (*SUBJECT: LIFE SCIENCE*), All India Rank-50  
*M.Sc. Bioinformatics* from G.G.D.S.D College, Sector 32-C, Chandigarh affiliated by Panjab University, Chandigarh, (2008-2010)  
*Graduate in B.Sc. Life science* from GCG-42 affiliated by Panjab University, Chandigarh, (2005-2008)

### **Teaching Experience**

- 23 July 2014-Jan 2015  
**Assistant Professor** in Department of Bioinformatics, GGSDS College, Chandigarh  
Teaching Bioinformatics Fundamentals, Genomics, Proteomics, Protein Sequence and Structure Analysis of B.Sc. and M.Sc. Bioinformatics

### **Job/Research Experience**

- 2013 to July 2014  
**Pharmacovigilance Subject Matter Expert** in Academy of Clinical Intelligence, Sector 8c, Chandigarh, 1 September 2013-20 July 2014.  
**Role:** Working on Argus Safety and clinical trial, PV process. Drug Safety Case Processing on Oracle Argus Safety 7.0.2. Assessment of case reports for seriousness, causality and expectedness. MedDRA coding and WHO-Drug Dictionary coding. Case Triage, Case Narrative writing, and Causality determination. Work according GCP and ICH guidelines
- 1 July, 2010 to June 2011  
**Project Trainee** in *GVK Biosciences Pvt. Ltd., Balanagar, Hyderabad*  
**Role: Curation and review** of biological Databases like Medicinal Chemistry Journal database, Target database of GPCR, Hydrolase, Kinases, Transporters, NHR, Oxidoreductase, Protease etc.

### **Areas of Interest**

- NGS Data Analysis: Genome assembly, RNA Seq, Variant Calling
- Drug designing, Protein and regulatory RNA prediction.

### **Publications (Journal/Book Chapters)**

- Saini S, Khurana S, Saini D, Rajput S, Thakur CJ, Singh J, Jaswal A, Kapoor Y, Kumar V, Saini A. In silico analysis of genomic landscape of SARS-CoV-2 and its variant of concerns (Delta and Omicron) reveals changes in the coding potential of miRNAs and their target genes. *Gene*. 2023 Feb 15;853:147097. doi: 10.1016/j.gene.2022.147097. Epub 2022 Dec 5. PMID: 36470485; PMCID: PMC9721428.

- Goel P, Panchal T, Kaushik N, Chauhan R, Saini S, Ahuja V, Thakur CJ. In silico functional and structural characterization revealed virulent proteins of *Francisella tularensis* strain SCHU4. *Mol Biol Res Commun.* 2022 Jun;11(2):73-84. doi: 10.22099/mbrc.2022.43128.1719. PMID: 36059929; PMCID: PMC9336787.
- Saini S, Saini A, Thakur CJ, Kumar V, Gupta RD, Sharma JK. Genome-wide computational prediction of miRNAs in severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) revealed target genes involved in pulmonary vasculature and antiviral innate immunity. *Mol Biol Res Commun.* 2020;9(2):83-91. doi:10.22099/mbrc.2020.36507.1487
- Saini S, Thakur CJ, Kumar V, et al. Computational prediction of miRNAs in Nipah virus genome reveals possible interaction with human genes involved in encephalitis. *Mol Biol Res Commun.* 2018;7(3):107-118. doi:10.22099/mbrc.2018.29577.1322.
- Saini, S., Notra, A., Chauhan, B., Arya, S., Gupta, R., Thakur, J., & Kumar, V. (2020). Deciphering the functional role of hypothetical proteins from *Chloroflexus aurantiacs* J-10-f1 using bioinformatics approach. Thakur, C. J., *Molecular biology research communications*, 9(3), 129–139. <https://doi.org/10.22099/mbrc.2020.36894.1495>
- Saini S, Jyoti-Thakur C, Kumar V, Suhag A, Jakhar N. In silico mutational analysis and identification of stability centers in human interleukin-4. *Mol Biol Res Commun.* 2018;7(2):67-76. doi:10.22099/mbrc.2018.28855.1310
- Saini S, Jyoti-Thakur C, Kumar V. “Genome Wide Computational Prediction of miRNAs in Kyasanur Forest Disease Virus and their Targeted Genes in Human”. *Innovative Thoughts International Research Journal (ITIRJ)* (Dec 2017); 5(3);3-47. ISSN 2321-5453
- Jyoti-Thakur C, Kumar V, Abrol K, Pandey K, Sharma A "Comparative Analysis of Gene Prediction Tools: RAST, Genmark hmm and AMIgene", *International Journal of Engineering Trends and Technology (IJETT)* (Jan 2017);43(4);234-237. ISSN:2231-5381.
- Bava AK, Jyoti-Thakur C “Cyber Crime through Mobile Phone in India and Preventive Methods”. *International Journal of Research and Review (IJJR)* (Mar 2015);2(3);110-113. ISSN: 2349-9788.
- Attended on day symposium on “**New Horizon in Biomedical Sciences**” organized by GGDSD College, Sector-32 C, Chandigarh on **23 November, 2024**.
- Presented scientific poster on “**Differential RNA sequencing data analysis of anterior region of female Drosophila**”

**Seminars/  
Conferences/Symposiums  
(Poster Presented)**

**melanogaster**” at National Symposium on “**Biotechnology: Trends and Innovations**”, organized by Department of Biotechnology, GGSD College, Chandigarh from **February 7-8, 2020**.

- Presented scientific Poster and won second prize entitled “**Denovo Genome assembly and Analysis of Muridarum str. Nigg**” in International Symposium on Bioinformatics: An Annual Event of APBioNET (Asia Pacific BioInformatics Network) organized at HMV College, Jalandhar from **December 21-22, 2019**.
- Presented poster entitled “In Silico Prediction of ZIKA Virus genome Reveals Possible Association with human genes involved in Microcephaly” in UIET and society for Biological engineering on November 1-2, 2018.
- Presented poster entitled “Comparative Analysis of Gene Prediction Tools: RAST, Genmark hmm and AMIgene” in UGC Sponsored National Conference at Lyallpur Khalsa College, Jalandhar on Oct 27-28, 2016

#### **FDP/Training/Workshops/ Seminar/Symposium**

- Attended Twelve week FDP-cum-certification programme on course entitled “**Next Generation Sequencing Technologies : Data Analysis and Applications**” conducted by IIT-Kharagpur from **July, 2023 – October, 2023** under NPTEL programme of Ministry of HRD, India
- Attended five days national level online FDP on “**Perl Scripting**” organized by the Department of Computer Science and Engineering, Lords institute of engineering and technology, Hyderabad in association with Spoken Tutorial IIT-Bombay from **10-14 June, 2020**.
- Attended one week FDP programme on “**Biological Data Analysis & Data Science**” organized under RUSA by Department of Bioinformatics and Department of Biochemistry, GGSD College, Chandigarh from **February 27 - March 04, 2020**.
- Attended four-week FDP-cum-certification programme on course entitled “**Functional Genomics**” conducted by IIT-Kanpur from **August 26 – September 20, 2019** under NPTEL programme of Ministry of HRD, India.
- Attended eight-week FDP-cum-certification programme on course entitled “**Introduction to Proteomics**” conducted by IIT-Bombay from **August, 2019 – October, 2019** under NPTEL programme of Ministry of HRD, India.
- Completed 2 weeks online course on “**Bacterial Genomes: from DNA to Protein Function using Bioinformatics**” certified by Wellcome Genome Campus Advanced Courses and Scientific Conferences, UK. (June 2018)
- Attended an online workshop on “**Now Generation Sequencing**” From June -October 2022 organized by Bioclues.org. The course consumed total 46 hrs taught programme and courses

- Attended an online workshop on “**An NCBI Guide to Finding and Analysing Metagenomic Data**” organised by NCBI (National Centre for Biotechnology Information), National Institute of Health, USA on 28 October, 2021.
- Attended one day National Workshop on “**Biomedical Data Science & Drug Discovery**” organized by Pine Biotech, Department of Biotechnology, Chandigarh Group of Colleges & Atal Community Centre (ACIC) RISE Association, Punjab.
- Attended one day International Workshop on “**Introduction to RNA-Seq and Variant Analysis Workflows using GALAXY**” organized by Department of Bioinformatics, HMV College, Jalandhar on **December 22, 2019**.
- Attended one day Lecture-cum-Workshop on “**Indian Research Information Network System (IRNIS)**” organized by GGSDS College, Chandigarh under capacity building program of RUSA, U.T. administration, Chandigarh on **December 01, 2018**.
- Attended three days workshop on “**System Biology: An Understanding of Bacterial Genomics and Proteomics**” organized by Bioinformatics Centre, Himachal Pradesh University, Shimla from **November 26-28, 2015**.
- Attended one day workshop on “**Next Generation Sequencing, Data Analysis & Annotation**” organized by Centre for System Biology & Bioinformatics, Panjab University, Chandigarh on **April 3, 2015**.
- Attended one day Indo-Australian Workshop on “**Next Generation Sequencing Data Analysis**” organized by HMV College Jalandhar on **November 9, 2014**.
- Attended 5 days Workshop on “**Next Generation Sequencing and Data Analysis**” organized by GGSDS College, Chandigarh from **February 18-22, 2015**.
- Attended Seminar on “**Advancement in machine learning & Artificial Intelligence**” Organized by Bioinformatics club, Department of Bioinformatics under the aegis of Department of science & technology and Renewable energy, Chandigarh Administration on **March 29, 2022**.
- Attended one day seminar on “**Chemistry Sensitization**” organized by Department of Chemistry, GGSDS College, Chandigarh on **February 15, 2020**.
- Attended one day National seminar on “**Goods and Services Tax (GST)**” organized by GGSDS College sponsored by College Development Council, Panjab University, Chandigarh on **January 20, 2018**
- UGC-Sponsored National Conferences on “**Recent Advances of Insilico Analysis: Role in Plant Stress Biology**”, at Lyallpur Khalsa College, Jalandhar, Punjab from **October, 27-28, 2016**

- One day National Symposium on “**Perspectives in Genomics and Proteomics**” on **October 21, 2016**.
- 2<sup>nd</sup> National Seminar on “**Recent Advances in Material Sciences**” organized by Department of Physics, GGSDS College, Chandigarh on **September 17, 2016**.
- IPR Seminar on “**A Global Outlook on Biotech & Pharma Patents**” P.G. Department of Biotechnology, GGSDS College, Sector 32, Chandigarh on **February 24, 2015**

**Project Supervise**

**M.Sc. Bioinformatics Sem IV:**

Total Students: 26

**B.Sc. Bioinformatics Hons Sem VI (3<sup>rd</sup> Year)**

Total Students: 33

**B.Sc. Bioinformatics Hons Sem IV (2<sup>nd</sup> Year)**

Total Students: 32

**Administrative Experience**

- Different departmental activities.

**Membership of India's Bioinformatics society**

- Life Membership of BIOinformatics CLU**b** for Experimenting Scientists (BIOCLUES) Society India

**Chander Jyoti**