POORANSINGH SOLANKI

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Employment Status

June 2001 – Jul 2009 : Scientist, Birla Institute of Scientific Research Jaipur.

Aug 2009 – Continue : Assistant Professor, Department of Bioengineering and Biotechnology, Mesra, Jaipur Campus. AND Senior Scientist, BISR , Jaipur

Responsibilities:

- To perform in house research in the area of Bioinformatics
- Provide Bioinformatics support to the institute
- Serve as liaison between biologist & software application developers
- Conducting Training-Programs related to Bioinformatics
- Coordinating activities of Bioinformatics Centre (BTIS Sub-DIC Centre)
- As a Faculty: Teaching Courses at BIT Ranchi, Mesra, Jaipur Campus.

Academic Qualifications

- **PhD (Bioinformatics & Computational Biology)**
  University of Rajasthan, Jaipur
- **Advanced Diploma (Post PG) in Bioinformatics**
  Jawaharlal Nehru University, New Delhi, India.
- **Master of Science in Biotechnology**
  M.L.S University, Udaipur, Rajasthan, India.
- **Bachelor of Science in Biotechnology**
  M.D.S University, Ajmer, Rajasthan, India.
- **Schooling (Secondary and Higher Secondary)**
  Atomic Energy Central School (CBSE), Rawatbhata, Rajasthan,.

Total Experience: Research/Work

- **24 years** (Period: From June 2001 to 2025)

Research Area & Interest

- Structural Bioinformatics: Structure Based Adaptive Evolution
- Genome, Transcriptome and Metagenome Analysis
- Molecular based detection of pathogens
- Health informatics and DNA & Sensor based health monitoring
- Bioinformatics Database Development

Research Details - http://bioinfo.bisr.res.in

Research Projects

Ongoing Sponsored Projects as PI (Extramural funding)

1. Design & Innovation Centre (DIC), Spoke to Hub at University of Rajasthan, Jaipur, *Sponsoring Agency*: Department of Higher Education, Ministry of Education, Govt of India ,(Total Cost: 1 Crore). (Total Received: 68 Lacs) , (Period: 2021 to 2026)
2. Registry of Genetic Polymorphisms associated with Hormonal and Metabolic Disorders in Asian indian. *Sponsoring Agency*: Metabolism and Molecular Research Society, India (Period: July 2022 to June 2025) (Total Grant: 22 Lakhs).
3. Development of Database of Human Pathogens Related to Food and Waterborne Diseases. *Sponsoring Agency:* Department of Science & Technology, (Total Grant: 11.10 Lakhs)

Ongoing In-House Projects (as PI)

- Development of Database of Biochemical Tests of Pathogenic Microbes for their rapid detection and comparative analysis.
- NGS data analysis of Allele frequencies the genome of Drosophila melanogaster to study the thermal effect on the evolution of DNA and its adaptability.
- Immuno-informatics Approach for Designing the Multi-epitope Vaccine Against Dengue Viruses (Under DIC sponsorship)
- Virtual Screening and scaffold hopping of anti-inflammatory compounds
- Exploring the Potency of Existing Drugs against Dengue Virus Using Bioinformatics Approach

Completed Sponsored Research Projects (as PI)

- A Rapid Multiplex PCR based detection of waterborne human bacterial pathogens Agency: DST, Govt of Rajasthan, Cost: 12.12 Lakhs, Period 3 Years. (2017 - 2020)
- Biotechnology Information System, Sub-Distributed Informatics Centre (BTIS SubDIC) Project, Sponsored By Department of Biotechnology (DBT), Govt of India. (2002 - 2007, 2007 - 2012, 2012 - 2017, 2017 - Mar 2020).

Under BTIS SubDIC, Dept. of Biotechnology (DBT), Govt. of India

- DOMAP: Database of Aromatic and Medicinal Plants of Rajasthan
- BISR-Primer: An Interactive Primer Designing Tool
- DISPROLIC: Database of Interaction Specificity in Protein Ligand Complex.
- PIASP: Protein Interaction Analyzer & Structure Parser.
- CRAT: Codon Restriction Analytical Tool

Research Publications

(National/ International Peer reviewed only) SCI/Scopus

1. Priyanka Sinoliya, Pooran Singh Solanki, Ravi Ranjan Kumar Niraj, Vinay Sharma, In-silico Approach to Combat Methicillin-resistant Staphylococcus aureus: Targeting RelP Protein with Inhibitor Peptide to Mitigate Drug Resistance, Current Drug Discovery Technologies; Volume 22, Issue , Year 2025, e15701638337060. DOI: 10.2174/0115701638337060250121154347
2. Pawar, Krunal, Pramodkumar P. Gupta, Pooran Singh Solanki, Ravi Ranjan Kumar Niraj, and Shanker L. Kothari. 2025. "Targeting SLC4A4: A Novel Approach in Colorectal Cancer Drug Repurposing" Current Issues in Molecular Biology 47, no. 1: 67. https://doi.org/10.3390/cimb47010067
3. Sinoliya, Priyanka, Solanki, Pooran Singh, Niraj, Kumar Ravi Ranjan, Sharma , Vinay, De novo Designing of the Antimicrobial Peptide as a Curative Agent for Methicillin-Resistant Staphylococcus aureus through a Computational Approach,Recent Advances in Anti-Infective Drug Discovery, volume 19, issue , pages 1-24, May 2024. ISSN: 2772-4344/2772-4352. doi: https://dx.doi.org/10.2174/0127724344297458240415113008.

4. Sinoliya Priyanka, **Solanki Singh Pooran**, Niraj Kumar Ravi Ranjan and Sharma Vinay*, Computational Study of Antimicrobial Peptides for Promising Therapeutic Applications Against Methicillin-resistant Staphylococcus aureus, Current Computer-Aided Drug Design, volume 20, issue, pages 1-14, year 2024, issn 1573-4099/1875-6697. https://dx.doi.org/10.2174/0115734099285473240101111303 (**Published** - 12 Jan 2024).

5. Sinoliya Priyanka, **Solanki Singh Pooran**, Piplani Sakshi, Kumar Niraj Ravi Ranjan*, Sharma Vinay, Anti-microbial Peptides against Methicillin-resistant Staphylococcus aureus: Promising Therapeutics, Current Protein & Peptide Science 2023; 24(2) . DOI: https://dx.doi.org/10.2174/1389203724666221216115850 .

6. Rajpurohit, S., **Solanki, P. S.**, Mayekar, H., Arya, H., Aradhya, R., Suravajhala, P., & Loeschcke, V. (Oct 2023). Tropical high-altitude insects show limited capacity to handle high temperatures. BioRxiv. October 16, 2023. (Preprint)- https://doi.org/10.1101/2022.09.10.507406 .

7. Chaturvedi, P., Saxena, V. L., Raina, V., **Solanki, P. S.,** & Chaturvedi, A. (2022). Can Spices Cure Flu? A Multiple targets based Bioinformatics analysis. Research Journal of Pharmacy and Technology, 15(11), 4881-4886. DOI: https://doi.org/10.52711/0974-360X.2022.00820 .

8. Laha Anubhab, Prasad Anchita, Baj Kalash, Shukla Nidhi, **Solanki Singh Pooran**, Bandopadhyay Rajib, Nallapeta Sivaramaiah, Medicherla Mohan Krishna*, Suravajhala Prashanth*, Nigam Kumar Vinod*, Laccases as Gold Standard Enzymes for Biotechnology, Current Biotechnology 2022; 11(3). https://dx.doi.org/10.2174/2211550111666220826102014

9. Monisha Singhal; Pragya Chaturvedi; R.K. Gothwal; M.K. Mohan; **P.S. Solanki** (Mar 2021). Comparative study of synonymous codon usage in bacteria growing at extreme temperatures, International Journal of Bioinformatics Research and Applications, 2021 Vol.17 No.1, pp.53 - 68, DOI: https://doi.org/10.1504/IJBRA.2021.113966, ISSN:1744-5485, E-ISSN:1744-5493 .

10. Bharti Malhotra, Veenu Gupta, Pratibha Sharma, Ruchi Singh, Himanshu Sharma, Madhavi

Vyas, RP Mathur, VK Mathur, Deepa Meena, Hemant Malhotra, Pragya D. Yadav, Gajanan Sapkal, Ullas PT, Gururaj Rao Deshpande, Rashmi Gunjikar, Heena Shaman, Devendra T Mourya, Nivedita Gupta, Sujit Singh, P Ravindran, Jitender Tiwari, Dimpal A. Nyayanit, Neeraj Kumar, Sameer Phalke, Anup Chugani, Sudhir Bhandari, **Pooran Singh Solanki** , Prashanth Suravajhala, Manila Salaria (2020). "Clinico-epidemiological and genomic profile of first Zika Virus outbreak in India at Jaipur city of Rajasthan state", Journal of Infection and Public Health, 2020, Volume 13, Issue 12, Pages 1920-1926. ISSN 1876-0341, DOI - https://doi.org/10.1016/j.jiph.2020.10.006 .

11. Chaturvedi,P., Raina,V., **Solanki,P.S.,** Saxena,V.L.,(2019). In silico Prediction of Antiplasmodial Activity of Spices: Targeting Malarial Proteases, Journal of Clinical and Diagnostic Research, 13(8), KC01-KC06. ISSN: 0973-709X, DOI:https://doi.org/10.7860/JCDR/2019/34534.13035

12. Pradeep Tiwari, Renuka Suravajhala, Sonal Gupta, Pragya Chaturvedi, Sandeep Kumar Mathur, **Pooran Singh Solanki** and Babita Malik (2019), A Molecular Docking and Pharmacokinetic Prediction of Thiazolidine-2, 4-dione Derivatives: Toward Novel Therapeutic Targets for Type-2 Diabetes Mellitus, International Journal for Computational Biology, Vol.8, No.1, Oct 2019, pp. 02-08 ISSN: 2278-8115, DOI: https://doi.org/10.34040/IJCB.8.1.2019.01

13. Yadav, H, Gothwal, R K, **Solanki, PS,** Nehra, S, Sinha-roy, S, Ghosh, P (2014), Isolation and Characterization of Thermo-tolerant Phosphate-Solubilizing Bacteria From a Phosphate Mine and Their Rock Phosphate Solubilizing Abilities,Geomicrobiology Journal, vol.32 No. 6, 475-481 (2014). ISSN: 0149-0451 Online ISSN: 1521-0529.

14. S. Lalwani, M. Mohan, **P.S. Solanki,** S. Singhal, S. Mathur and E. Spedicato (2013), "An Application of the ABS Algorithm for Modeling Multiple Regression on Massive Data, Predicting the Most Influencing Factors," Applied Mathematics, Vol. 4 No. 6, 2013, pp. 907- 913. (2013), ISSN Print: 2152-7385, ISSN Online: 2152-7393

15. **P. S. Solanki,** M. Krishna Mohan, P. Ghosh and S. L. Kothari. (2012) , "Analysis of structurally conserved atomic interactions in structural homologs of nicotinamide adenine dinucleotide binding dehydrogenases." Journal of Computational Biology and Bioinformatics Research 4, no. 3 (2012): 28-33.ISSN: 2141-2227, doi - https://doi.org/10.5897/JCBBR11.030

16. Amit N, OP Jangir, **PS Solanki,** Vijay S, M Krishnamohan (2008), In Silico and In Vivo Study of Lens Regeneration Under the Influence of Retinoid. J Proteomics Bioinform 1: 104-108. ISSN: 0974-276X, doi - https://doi.org/10.4172/jpb.1000016.

Books and Chapters

17. Sampat Nehra, Raj Kumar Gothwal, Aruna N. C. Shekhar, Parul Sinha, Erica Zinnia Nehra, Alok Kumar Varshney, Pooran Singh Solanki, Purnendu Ghosh, Understanding Post-translational Protein Modification through Proteomics Tools, Chapter 17, PP: 265-290, Book:Plant Proteomics, 1st Ed., Edited By: Aryadeep Roychoudhury, eBook ISBN: 9781003350453, CRC Press, (3 June 2024), DOI: https://doi.org/10.1201/b23255

18. Sampat Nehra, Raj Kumar Gothwal, Alok Kumar Varshney, **Pooran Singh Solanki,** Poonam Meena, P. C. Trivedi & P. Ghosh, Alleviation of salinity stress by microbes, Chap 9, PP : 145 -162, (Dec 2023) Book:Industrial Applications of Soil Microbes, Vol-2, Edited by: Shampi Jain,

Ashutosh Gupta and Neeraj Verma, Publisher: Bentham Books, ISSN: 2811-0765, E-ISSN:2811-0773.

19. Sampat Nehra, Raj Kumar Gothwal, Siddhant Dhingra, Alok Kumar Varshney, **Pooran Singh Solanki**, Poonam Meena, P. C. Trivedi & P. Ghosh (2022). Mechanism of Antagonism: Hyperparasitism and Antibiosis. In: Kumar, A. (eds) Microbial Biocontrol: Sustainable Agriculture and Phytopathogen Management. Publisher:Springer, Cham. PP 257–277. Print ISBN - 978-3-030-87511-4. https://doi.org/10.1007/978-3-030-87512-1_11

20. Sampat Nehra, Raj Kumar Gothwal, Alok Kumar Varshney, **Pooran Singh Solanki,** Shivani Chandra, Poonam Meena, P.C. Trivedi, P. Ghosh (2021). "Biomanagement of Fusarium spp. associated with pulse crops, Editor(s): Ajay Kumar, Samir Droby, Food Security and Plant Disease Management, **Elsevier Publisher,** 2021, Chapter 21, Pages 423-452. ISSN 9780128218433, doi - https://doi.org/10.1016/B978-0-12-821843-3.00010-6

21. Sampat Nehra, Raj Kumar Gothwal, Alok Kumar Varshney, **Pooran Singh Solanki,** Shivani Chandra, Poonam Meena, P.C.Trivedi, P.Ghosh (2021). "Bio-management of Fusarium spp. associated with oil crops", Editor(s): Vijay Kumar Sharma, Maulin P.Shah, Shobhika Parmar and Ajay Kumar, Fungi Bio-Prospects in Sustainable Agriculture, Environment and Nano-Technology, **Elsevier Publisher**, Volume: 1: Chapter 19, Pages 475-505. ISSN: 978-0-12-821394-0, doi- https://doi.org/10.1016/B978-0-12-821394-0.00020-2

22. Sampat Nehra, Raj Kumar Gothwal, Alok Kumar Varshney, **Pooran Singh Solanki**, Shivani Chandra, Poonam Meena, P.C. Trivedi, P. Ghosh, Chapter 19 - Bio-management of Fusarium spp. associated with fruit crops, Editor(s): Vijay Kumar Sharma, Maulin P. Shah, Shobhika Parmar, Ajay Kumar,Fungi Bio-Prospects in Sustainable Agriculture, Environment and Nano-Technology, Academic Press,2021,Pages 475-505, ISBN 9780128213940, https://doi.org/10.1016/B978-0-12-821394-0.00019-6 .

23. Upadhyayula R.S., **Solanki P.S.,** Suravajhala P., Medicherla K.M. (2019) Bioinformatics Tools for Microbial Diversity Analysis. In: Satyanarayana T., Johri B., Das S. (eds) Microbial Diversity in Ecosystem Sustainability and Biotechnological Applications. **Springer Nature,** Singapore, Vol-I, 2019, pp 23-47, DOI: https://doi.org/10.1007/978-981-13-8315-1_2 , Print ISBN: 978-981-13-8314-4, Online ISBN: 978-981-13-8315-1

POSTER PUBLICATION

SN	Poster Detail - Conference - dates	Level	Year
1	"Design of multi-epitope vaccine lead against dreadful Dengue virus using computational approach" during 4th All India DIC Meet at IIT Hyderabad held on 2-3 May2024. (Manvi Katiyar , Manisha Pritam , RK Gothwal, Sampat Nehra , AK Varshney, MK Mohan, P. Ghosh and PS Solanki*).	National	2024
2	"Database of Biochemical Tests of Pathogenic Enterobacteriaceae	National	2022

	Family" during BESCON-22, organized by BESI at BOSE Institute during 4-6 Nov 2022		
3	"Development of a redox dye based novel and reliable method for detecting hydrocarbon utilizing bacteria directly from the soil samples" during BESCON-22, organized by BESI at BOSE Institute during 4-6 Nov 2022.	National	2022
4	"An efficient metagenomic DNA extraction method from Thar Desert soils for exploring petroleum hydrocarbon utilizing bacterial diversity " during BESCON-22, organized by BESI at BOSE Institute during 4-6 Nov 2022	National	2022
5	"Database of Specific Primers and probes of water pathogens" during 17th International Conference on Bioinformatics (InCoB 2018) organized by SCIS, Jawaharlal Nehru University, New Delhi, on 26-28 September 2018.	International	2018
6	"Activities and Progress in Bioinformatics at BTIS Sub-DIC, BISR" during XXIX BTISnet Annual Meet organized at Tirunelveli, Tamil Nadu, 3-4 February,2018	National	2018
7	"Utilization of Sea food waste for chitinase production by Brevibacillus Formusas BSIR-1 and Paenibacillus sp. Bisr-047" during National conference of Biological Engineering Society on biological engineering in 21st century, BESCON 2017, organized by NSIT, New Delhi, September 8-9, 2017.	National	2017
8	"Database of Human Fungal Pathogens related to food and waterborne diseases", during National Conference on Fungal Biotechnology (NCFB-2016) organized by Mycological Society of India (MSI), at BISR, Jaipur, held on 16-18 November 2016.	National	2016
9	"A hyper-thermostable chitinase from Paenibacillus sp. BISR-047: Its characterization and biocontrol potential" during 55th Annual Conference of AMI, held on 12-14 November 2014, at Tamil Nadu Agricultural University, Coimbatore.	National	2014
10	"Isolation and characterization of thermotolerant bacterial strains from Jhamarkotra phosphate mines producing alkaline phosphatase" during 55th Annual Conference of AMI, held on 12-14 November 2014, at Tamil Nadu Agricultural University, Coimbatore.	National	2014
11	"Chitinase production from Paenibacillus sp. BISR-047 utilizing seafood waste as substrate under solid-state fermentation" during National conference on "Bioprocess Technology" held on September 13th , 2014 at JNU, Jaipur , Rajasthan.	National	2014

12	"Chitinase Production and Biocontrol potential of a newly isolated chitinolytic bacterium *Brevibacillus Formosus* BISR-1" during 54th Annual Conference of AMI held on 17-20 November 2013 at Maharshi Dayanand University, Rohtak.	National	2013
13	"Genotyping of antifungal compounds producing plant growth promoting rhizobacteria, Pseudomonas flurorescence" during National conference on "Emerging Trend in Nanobiotechnology, held on 29-30 November 2013, at SLS, JNU, Jaipur, Rajasthan.	National	2013
14	"Antifungal activity of chitinolytic bacterial strain and their potential for biocontrol of important fungal phytopathogens of cumin" during 53rd Annual conference of AMI, held on 22-25 November 2012 at KIIT University, Bhubaneshwar Odisha	National	2013
15	"Optimization of culture conditions for chitinase production by Paenibacillus sp. BISR-047 '' during 53rd Annual conference of AMI-12, held on 22-25 November 2012 at KIIT University, Bhubaneshwar Odisha.	National	2012
16	"Comparative analysis of SSEs in extremophiles using CASSP", during National Symposium on "Bioinformatics: Challenges in the post genomics era", sponsored by DBT, GOI, organized by BIC, University of Jammu, 2 Feb 2012.	National	2012
17	"Codon Bias Analysis of Extremophilic Bacteria", during 51st Annual conference of AMI-2010, organized at BIT , Mesra, Jharkhand,	National	2010
18	An Identification of Structurally Conserved Hydrogen-Bonding Interactions in the active site of NAD binding proteins. AIBA 2001: Conference on Biotechnology-the Science & the Business, 28-30 September 2001, IIT, Delhi	International National	2001

Training Courses Completed (1 weeks or more)

1. **Completed two weeks** training course on "Protein Structure Prediction & Structure Determination" organized by Centre for Cellular and Molecular Biology (CCMB), Hyderabad, Feb 26 - Mar 8, 2007.
2. **Completed one week** course from Sun Educational Services in "Sun Java Programming Language"(SL 275), organized at BISR, Jaipur, 22-28 November 2010.
3. **Completed One week** national workshop on "LAMP (Linux,Apache,MySQL,PERL) Technology, at Bioinformatics Centre, BISR, Jaipur, 15-19 February 2010.
4. **Completed UGC Orientation Programme(one month):** 97th Orientation Programme from 18th May 2015 to 13th June 2015, organized at UGC, Human Resource Development

Centre(ASC), University of Rajasthan, Jaipur.

5. **Completed 21 Days** Summer training course on “Geospatial Technologies”, under Natural Resources Data Management System(NRDMS), DST, Ministry of S&T, GOI, conducted by Remote Sensing, BISR, Jaipur from 15 May - 5 June 2017.
6. **Completed One week** “First IAPR Summer School on Document Analysis: Document Informatics”, during 23-28 January 2017, Jointly organized by CSIR-CEERI and BISR.
7. **Completed 21 Days** NRDMS-DST Winter School Course on “Geospatial Technologies” (Level 2), Theme: Water Resource Management, organized by Remote Sensing BISR, sponsored by NRDMS, Department of S&T, Govt of India held on 4 - 25 Nov 2019.

Invited Speaker/ Talks

National / International conference symposium

1. Invited talk on “PERL in Bioinformatics” during a workshop onInvited talk on “Multiple Sequence Alignment ”, during Faculty Development Programme on “Artificial Intelligence and Machine Learning in Healthcare” jointly organized by the Department of Bioengineering and Electronics & Communication Engineering, Birla Institute of Technology Mesra, Ranchi during 27th - 31st July, **2020**, sponsored by TEQIP III.
2. Invited talk on “Bioinformatics: Protein-Ligand Interactions” during International Seminar on Bioinformatics in Healthcare, 25th Jan **2020**, School of life science, JNU, Jaipur
3. Invited talk on “Alignment and Modeling Strategies”, during National Conference on “Microbiology in services of Mankind” at Sankalchand Patel University, Visnagar, Gujarat; 6 Sep **2019**
4. Invited talk on “Protein-Ligand Interactions”, during Bioinfo-CADD-2019, BLal Institute of Biotechnology, Malviya Nagar, Jaipur, 28 Feb **2019**.
5. Invited talk on “PIASP: A tool to determine structurally conserved atomic interactions in protein-ligand Complexes”, Indian Conference on Bioinformatics 2019 (Inbix’19), February 22-23, **2019**, HMV College, Jalandhar, India,(Invited Talk).
6. Invited talk on “Biocomputing with PERL“ during a workshop on “Advancements in PERL Language”, sponsored by TEQIP-III, organized by RTU, Kota at Modi Institute of Technology, Kota on 6 Apr **2018**.
7. Invited talk on “Bioinformatics fundamentals” during National seminar on thrust area of Biotechnology and Bioengineering, organized by Maharaja Vinayak Global University, Jaipur Institute of Biotechnology held on 22-24 Feb **2016**.
8. Invited talk on “MSA and Phylogenetics” during Workshop on “Emerging Techniques in Bioinformatics and Its Application”, organized by Department of Bio-Engineering, BIT Mesra, Jharkhand, India held on Nov 30 - Dec 04, **2015**.
9. Invited talk “Bioinformatics” during National Workshop on Biomedical Instruments and Technologies (NWBIT-2015), organized by Department of Zoology, Centre for Advanced Studies, University of Rajasthan, Jaipur. 13-14 March **2015**.
10. Invited talk on “Bioinformatics Applications”, during National workshop on Applications of Computational Tools in Medicine & Biology (NWMB 2015), 24 January 2015, organized by Department of Zoology, CAS, University of Rajasthan, Jaipur on Nov 30 - Dec 04, **2015**.
11. Invited talk on “Bioinformatics Trends” during the symposium on “Trends in Bioinformatics and

Biotechnology" held on 2-3 August **2014** at Department of Biotechnology, ML Sukhadia University, Udaipur.

12. Invited talk on "Protein Ligand Interactions" during National Workshop on Bioinformatics entitled "In Silico Genome and Proteome Analysis" held from 8-10 March **2014** at Department of Bioscience, Banasthali University, .
13. Invited talk on "Bioinformatics Analysis for Core Biologist" during the "Teacher Training Programme on Bioinformatics" held on 24 Feb **2014**, organized at Modi Institute of Technology & Management, Kota and Conducted by The Society for Environment & Development, Delhi , sponsored by DBT, GOI.
14. Invited talk on "Introduction to Bioinformatics" during the seminar on "Current Trends in Bioinformatics" held on 17 October **2012** at Department of Biotechnology, ML Sukhadia University, Udaipur.
15. Invited talk on "Bioinformatics Applications" during seminar on "Bioinformatics", at Department of Bioscience College of Arts, Science & Humanities, Mody University of Science & Technology, Lakshmangarh, Sikar, Rajasthan, 27-28 Feb **2010**.
16. Invited talk on "Sequence Alignment Strategies", during Workshop on "Current Trends in Bioinformatics" , CTB06, jointly organized by BIT Mesra, Kolkata Extension Centre and Computer Society of India, Kolkata Chapter, June 30 - July 1, **2006**.

Participation in Conference/ Symposium/ Workshop

1. Participated in Workshop on "Parasite Bioinformatics" organized by Bioinformatics Centre, University of Pune, 28-31 January 2002, funded by DBT, GOI
2. Participated in the National workshop on "Analysis and Management of Microarray Data", organized by IMTECH, Chandigarh, 27-29 October 2003, funded by DBT, GOI.
3. Participated in National Symposium on "Science and Technology for Desert Development", organized by The National Academy of Sciences, India, 2-4 December 2004, BISR, Jaipur
4. Participated in National workshop on "Machine Learning Techniques in Functional Proteomics' ', organized by Bioinformatics Centre, IMTECH, Chandigarh, 18-21 Oct 2005.
5. Participated in National Symposium on Bioinformatics, organized by BIC, College of Fisheries, Mangalore, 1-2 February 2006, funded by DBT, GOI. (Paper present)
6. Participated in the Symposium on "Advances in Structural Biology & Structure Prediction" organized by CCMB Hyderabad, 11 ADNAT Convention, 23-25 February 2007.
7. Participated in the International Conference on Open Source for Computer Aided Drug Discovery (OSCADD), organized by IMTECH, Chandigarh, 22-26 March 2009.
8. Participated in 25th Annual BTISnet Meeting, sponsored by DBT, GOI, organized by National Institute of Oceanography, Goa, 27-28 Feb 2014.
9. Participated in XXVIth BTISnet Annual Conference held on 3-4 Feb 2015 at Sri Venkateshwara University, Tirupati, Andhra Pradesh, funded by DBT, GOI.
10. Participated in the workshop on "Ion Chromatography for Water & Environment" held on 15th June 2015, at BISR, Jaipur, Sponsored by Thermo Scientific.
11. Participated in the National Workshop on "PATINFORMATICS for Bioinformatics", organized by BIF, Kumaun University, Bhimtal, held on 5 March 2016.
12. Participated in XXVII BTISnet Annual Meet held on 3-4 March 2016 at BIF, Department of Biotechnology, Kumaun University, Bhimtal, funded by DBT, GOI.
13. Participated in one day workshop on "ISRO's Geo-portals for developmental planning and e-governance" organized by RRSC-W/NRSC(ISRO), CAZRI (ICAR), SRSAC(DST)-Jodhpur at BISR Jaipur on 12 April 2016.

14. Participated in 28th BTISnet Annual Meet at TATA Memorial Centre, Advanced Centre for Treatment, Research & Education in Cancer (ACTREC), Mumbai on 3-4 Feb 2017.
15. Participated in INAE Youth Conclave-2017, by Indian National Academy of Engineering (INAE), organized by BISR, Jaipur during 11-12 August 2017.
16. Participated in Symposium on "Emerging Trends in Computational Biology" organized by School of Computational and Integrative Sciences, JNU, New Delhi. 16-17 Dec 2017.
17. Participated in conference on "2018 NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT), organized by SciGenome Research Foundation (SGRF), during 30 Sep - 2nd Oct 2018 at Jaipur, Rajasthan.
18. Participated in a two days workshop on "Bioprinting Technology" during 17-18 Aug 2022, conducted by Next Big Lab Innovations, Bangalore at BISR, Jaipur.
19. Participated in a workshop on "Earth Observations for Climate Services", organized by National Information System for Climate and Environment Studies(NICES), conducted at BISR, Jaipur on 12 October 2023.
20. Participated in fourth All India DIC meet at IIT Hyderabad, 2-3 May 2024

Awards , Honors, Recognition

Research Recognition (Nov 14, 2023,)

1. Honored by Elsevier Publishing group: Appreciation certificate for my research contribution in solving the ZIKA outbreak in Rajasthan during 2021. (This work was linked to the United Nations Sustainable Development Goals, helping to tackle some of the world's greatest challenges.)

Session Chair

2. Chaired a Session during International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), 4-8 April 2021, Organized by MNIT, Jaipur and Biotech Research Society, India.
3. Chaired a Session during Indian Conference on Bioinformatics, Inbox-2017, organized by BISR, Jaipur, 7th to 9th November 2017.

National Advisory Committee Member (2018)

4. Member of National Advisory Committee in the National Seminar on "Bioscience: Developing the Next Generation", organized by Department of Microbiology, Sankalchand Patel University, Visngar, Gujarat, 11-12 January 2018.

Joint organizing Secretary in International Conference (2017)

5. **INBIX'17:** Organized an International Conference in Bioinformatics during 7th - 9th November 2017 as Joint organizing Secretary, entitled as "Indian Conference on Bioinformatics", (**Inbox-2017**). Organized by Bioinformatics Centre, BISR, Jaipur sponsored by DBT, GOI,(International Supported by: International Society for Computational Biology (**ISCB**) and Asia Pacific Bioinformatics Network (**APBioNet**). Invited a Noble Laureate Prof Temple Smith, USA.
6. **BTISnet Meet 2005**: Organized an Annual Biotechnology Information System Network(BTISnet) annual meet during 2-4 Feb 2005, sponsored by DBT, Govt of India.

Merit Scholarship (2000)

7. Awarded with a merit fellowship for being among the top selected candidates in the Advanced Bioinformatics Diploma Course at Jawaharlal Nehru University by Department of Biotechnology, Govt. of India.

Ph.D Supervision(Awarded/Submitted/Pursuing)

SN	Student Name	Status	Title of Thesis
1	Ms Priyanka Sinoliya	Awarded (May 2024) (Amity)	In-Silico identification and evaluation of anti-microbial peptide against MSRA”
2	Mr Krunal Power	Submitted (Amity)	Study & analysis of tumor suppressor gene(s) in colorectal cancer with Integrative Bioinformatics Pipeline,
3	Ms Pooja Sharma	Pursuing (BIT)	Registered at BIT Mesra (SP2024) (co-supervision of analysis of NGS & Metagenomics data)
4	Ms Tamanna Ajmera	Pursuing (MLSU Udaipur)	Whole genome sequencing based typing of Staphylococcus aureus strains with reference to emergence of antibiotic resistance
5	Ms Yuttasha	Pursuing (BIT)	Pursuing Course Work
6	Ms Manavi Katiyar	Pursuing (BIT)	Pursuing Course Work

Ph.D Thesis Evaluation

1. Evaluated Ph.D Thesis entitled “Statistical analysis of expression data generated through RNA-Sequencing” by Ms. Harsh Sharma, (Registration No. A525133919001), Amity Institute of Integrative Sciences & Health, Manesar, NCR, New Delhi (Nov 2022).

2. Evaluated Ph.D Thesis entitled “Functional relationship between genetic variations and alternative splicing in Yeast” by Kusum Yadav, (Registration No. A50217319001), Amity Institute of Integrative Sciences & Health, Manesar, NCR, New Delhi (Jun 2023).

Teaching Experience

Involved in teaching UG and PG Courses at BIT, Jaipur Campus and BISR.

***UG Courses* (Teaching since 2012)**

- BTech CSE/ IT/ EEE/ ECE at Jaipur Campus (Online : Patna and Deoghar Campus)
    - Paper - BE101 (Biological Science for Engineers)

PG Courses

- MSc Bioinformatics & Computational Biology (BIT Jaipur Campus) (Since 2023)
    - SEM 1: BI102, BI105 ,
    - SEM 2: BI201, BI202, BI205
    - SEM 3: BI302, BI303 BI304, BI305, BI310 BI311

PAST Teaching Experience

- MCA : BT417 Bioinformatics (Till 2021)
- M.SC Bioinformatics Courses (2006, 2007 at BIT, Jaipur) - Various courses
- PG Diploma Bioinformatics (at BISR, Jaipur - 2007, 2008) - Various courses

Current Teaching Assignments

1. **Teaching at BIT Jaipur Campus-**
    a. PG Course (Various Bioinfo courses)
        i. MSc Bioinformatics & Computational Biology, Jaipur Campus
    b. UG Course
        i. B.Tech Computer science (Jaipur and Patna Campus) , BE101

2. **Summer Training** - Coordinator of one week Bioinformatics Module offered during Summer Training at BISR. Also involved in teaching the modules in both the batches.

3. **Six-month CADD Course** - Regular teaching in CADD Course. The Design Innovation Centre, BISR & DIC, University of Rajasthan, jointly organizes the six-month course in Computer Assisted Drug Design sponsored by Department of HIgher Education (DoE), Ministry of Education,Govt of India. Currently, the fourth session- CADD-2024 is open for registration.
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Organizational Experience

- Organized more than 37 national workshops sponsored by the Department of Biotechnology (DBT) under the Ministry of Science & Technology, Govt of India.
- Organized Annual BTIS meet at BISR in Feb 2005.
- Organized Indian Conference on Bioinformatics(INBIX'17), International conference at BISR,
- Played key role in organizing the committee during the National Academy of Sciences at Jaipur (Nov 2004), MSI(2016), INAE(2014) etc.

Scientific and Professional Affiliations

- Founder member of Biological Engineering Society, India (Life Member)
- Member of International Society for Computational Biology, California, USA.
- Asia Pacific Bioinformatics Interaction & Networking Society (APbians) (Life Member)
- Bioclues – Bioinformatics Society (Life Member)
- Member of Bioinformatics forum, CCBB, JNU, New Delhi (Life Member)

Member of Board of Studies of Universities/Institution

- Member of Board of Studies in Bioinformatics, MDS University, Ajmer
- Member of Board of Studies in Bioinformatics, Jaipur National University, Jaipur
- Member of Board of Studies in Bioinformatics, Amity University, Rajasthan
- Member of Board of Studies in Bioinformatics & Computational Biology, BIT Mesra

TRAINING/ WORKSHOPS CONDUCTED

(DETAILS OF SEMINARS, CONFERENCES, WORKSHOPS, TRAINING COURSES ETC. CONDUCTED) Apr 2021 - Mar 2024

Six-Month Training Course (CADD)

Convener of six-months CADD Course funded by DoE,MoE, Govt of India.

- Conducted six-month training course on Computer Assisted Drug Design , Aug 2021-Feb 20222, sponsored by Department of Education, MHRD, Govt of India, at DIC, BISR, Jaipur jointly with University of Rajasthan.
- Conducted six-month training course on Computer Assisted Drug Design ,

September 2022-Feb 2023, sponsored by Department of Education, MHRD, Govt of India, at DIC, BISR, Jaipur jointly with University of Rajasthan.

- Conducted six-month training course on Computer Assisted Drug Design , September 2023-March 2024, sponsored by Department of Education, MHRD, Govt of India, at DIC, BISR, Jaipur jointly with University of Rajasthan.

Summer Training (2017 - 2024)

Incharge, Bioinformatics Module during Summer trainings

i. Batch-I : May - June, 2017 , Batch-II : June - July, 2017
ii. Batch-I : May - June, 2018 , Batch-II : June - July, 2018
iii. Batch-I : May - June, 2019 , Batch-II : June - July, 2019
iv. Batch-I : May - June, 2020 , Batch-II : June - July, 2020
v. Batch-I : May - June, 2021 , Batch-II : June - July, 2021
vi. Batch-I : May - June, 2022 , Batch-II : June - July, 2022
vii. Batch-I : May - June, 2023 , Batch-II : June - July, 2023
viii. Batch-I : May - June, 2024 , Batch-II : June - July, 2024

List of Workshops organized as Convener (2001 - 2019)

National Workshop funded by BTIS, DBT, New Delhi, Govt of India

SN	Year	Date	Topic
1	2001	20-21 July 2001	Computational Methods in Molecular Biology
2	2002	08-09 Mar 2002	Bioinformatics Application in Genomics and Drug Discovery
3	2002	27-29 Dec 2002	Sequence Analysis and Protein Structure Prediction
4	2003	18-20 Sep 2003	Genomics and Proteomics
5	2003	21-23 Nov 2003	Current Trends in Bioinformatics
6	2003	22-24 Dec 2003	Molecular Modeling of Proteins
7	2004	02-04 Sep 2004	Structural Bioinformatics
8	2004	04-10 Nov 2004	Current Trends in Bioinformatics

9	2005	14-16 Sep 2005	Biological Sequence Analysis
10	2006	11-13 Jan 2006	Genomics & Proteomics
11	2006	06-08 Sep 2006	Computational Genomics
12	2007	10-12 Jan 2007	Biological Sequence Analysis
13	2007	14-16 Nov 2007	Algorithms in Bioinformatics
14	2007	17-21 Dec 2007	Sequence Analysis using Exome Horizon
15	2008	07-13 Jan 2008	Clinical Research and Clinical Data Management
16	2008	16-18 Oct 2008	Molecular Modeling and Drug Designing
17	2009	20-22 Jan 2009	Computational Genomics
18	2009	09-13 Feb 2009	Java for Bioinformatics
19	2009	13-17 Apr 2009	Data Mining Techniques in Bioinformatics
20	2009	23-25 Sep 2009	Biological Sequence Analysis
21	2009	27-31 Oct 2009	Rational Drug Designing
22	2010	21-23 Jan 2010	Molecular Modeling of Proteins
23	2010	16-17 Feb 2010	Bioinformatics Fundamentals
24	2010	23-25 Sep 2010	Structural Bioinformatics
25	2011	14-16 Jan 2011	Computational Methods in Molecular Biology
26	2011	08-10 Dec 2011	Sequence and Genome Analysis
27	2012	21-23 Sep 2012	Biological Sequence Analysis
28	2012	14-16 Dec 2012	Molecular Modeling and Drug Designing
29	2013	31 Jul- 1 Aug 2013	Biological Networks: Insight from Interactions
30	2014	10-12 Jan 2014	Structural Bioinformatics
31	2015	21-23 Jan 2015	Open Source Tools in Bioinformatics
31	2016	08 - 10 Jan 2016	Current Approaches in Molecular Modeling of Proteins
32	2016	16 Jan 2016	NGS Data Analysis in Cancer Genomics
33	2017	20-22 Jan 2017	Current Trends in Bioinformatics and Genome Analysis
34	2017	22-28 Jun 2017	Big Data Analytics for Whole Exome Sequencing

35	2018	15-17 Feb 2018	Bioinformatics Applications in Modeling & Drug Design
36	2018	25-30 Nov 2018	Systems Genomics in the age of Next Generation Sequencing
37	2019	06 - 08 Mar 2019	Bioinformatics and Systems Biology
38	2020	04 - 08 Feb 2020	System Bioinformatics and Biopython Modules

List of Dissertation Supervised (4 - 6 Months)

Period : 2001 - 2024

Total Students : 80

Total UG Students : 33 (BE/BTech : 30 B.Sc : 3)

Total PG Students : 47 (M.Tech.: 14 M.Sc: 33)

	Name of Student	Year	Affiliation/Institute	UG/ PG	Title of Dissertation
1.	Sonal Kumar	2002	BTech, Jaypee university, Solan, HP	UG	Biological Sequence analysis of nitrogen fixation genes
2.	Jaspreet kaur	2002	M. Tech., NIT, Jalandhar	PG	Phylogenetic analysis of the endo-1,4 beta xylanase family
3.	Tushar kapoor	2002	M. Tech., NIT, Jalandhar	PG	primer designing and systematics study of the endo-1,4 beta xylanase family
4.	Apalak Ghosh	2003	BE, BIT Mesra	UG	Pairwise alignment of biological sequences using modified dynamic programming method
5.	Dinto Jose	2003	M. Tech., NIT, Jalandhar	PG	Identification of possible drug targets in alpha-6 beta-4 integrin for the application in anti-cancer drug development
6.	Yeshpal Singh	2003	M. Tech., NIT, Jalandhar	PG	Structural bioinformatics approach to design possible anti-cancer drugs by targeting integrin receptor
7.	Sriparna Mukherji	2003	BSc. St. Stephen's College, Delhi University, Delhi	UG	Developing A Tool to Analyze the frequency of Codon Usage in Genome.
8.	Aparna Mukherji	2003	BSc. St. Stephen's College, Delhi University, Delhi	UG	Comparative Analysis of Frequency Distribution of Codons in Enterobacteria Phage Genomes
9.	Sangeeta Sharma	2003	MSc, University of Rajasthan	PG	Binding site analysis of family Microbial Xylanases
10.	Roopa .L	2004	M.Sc. Bharathiar University,	PG	Binding site analysis of family of ATP binding

			Coimbatore		proteins.
11.	Neetu Bohra	2004	M.Sc, Biotech, Rajasthan Univ.	PG	Codon composition analysis of key Glycolytic Pathway Enzymes from extremophiles
12.	Sonal Kumar	2004	BTech, Jaypee university, Solan, Himachal Pradesh	UG	Interaction specificity of GTP Binding Proteins
13.	Mitesh Agrawal	2005	BE Biotech, IIT Madras,	UG	Development of Biological Sequence Format Conversion Tool
14.	Rohita Sinha	2005	M. Tech. IT(Bioinformatics), IIIT Allahabad	PG	Structural studies of Conserved Structural Region of thermophilic and mesophilic proteins using MOE
15.	Deepika Charan	2006	MSc Bioinformatics Banasthali vidyapith ,Rajasthan	PG	Analysis of mutational pressure in Frankia Nif operon
16.	Govind Sharma	2006	BE Biotech, BIT, Mesra	UG	Development of an algorithm for designing PCR primer
17.	Jatinder Bedi	2006	M. Tech., NIT, Jalandhar	PG	Studying protein folding in Brazzein using Genetic Algorithm
18.	Manas Ranjan Dikhit	2006	M.Sc (Bioinformatics), Orissa University of Agriculture and Technology, Bhubaneshwar	PG	Developing a method for designing In-Silico PCR primer
19.	Neelu Rani	2006	B. Tech (Biotech), Maharishi Arvind Institute of Engineering & Technology, Jaipur	UG	Correspondence Analysis of Synonymous codon usage in Bacteria growing at different temperature
20.	Smita Yadav	2006	B.E (Biotechnology), JECRC, Jaipur,	UG	Comparative Synonymous Codon Usage Analysis in Extremophiles
21.	Srijak Bhatnagar	2006	B.Tech (Bioinformatics), Sathyabama Institute of Science and Tech., Chennai	UG	Strategies of Proteins' Adaptation to Temperature: Salt bridges
22.	Ruchi Patni	2006	B.E (Biotechnology), Maharishi Arvind Institute of Engg and Tech, Jaipur	UG	Strategies of Proteins' Adaptation to Temperature: Aromatic interactions
23.	Aarti Bhargava	2006	M.Sc (Bioinformatics), Banasthali Vidyapith	PG	To study the interaction specificity in protein-ligand complexes
24.	Tripti Vijay	2006	M.Sc (Bioinformatics), Banasthali Vidyapith	PG	Development of web based tool to study the interaction specificity in protein-ligand complexes
25.	Ms. Neha Sharma	2007	B.E (Biotechnology), Maharishi Arvind Institute of Engineering and Technology	UG	Developing and Analysis of Virtual Proteomic Gel using PERL and Bioperl

26.	Aditi Sharma	2007	BE, Biotech, JECRC, Jaipur	UG	Interface developing Virtual Proteomic Gel Using PERL and Bioperl
27.	Arpit Mehta	2007	BE, Biotech, JECRC, Jaipur	UG	UBIPred: A Software Tool to Predict Ubiquitylation Sites in Given Protein Sequence
28.	Preeti Jain	2007	B.E (Biotech), Maharishi Arvind Institute of Engineering and Technology, Jaipur	UG	Application of Bioperl Programming in Online Proteomic Gel Creation & Analysis
29.	Tanu Soni	2007	BE, Biotech, JECRC, Jaipur	UG	Development of Online Information Retrieval System for Virtual Proteomic Gel Using PERL and BIOPERL
30.	G. Ranganath	2007	M.Tech (Bioinformatics), D.Y. Patil Institute of Biotechnology and Bioinformatics, Belapur, Navi Mumbai	PG	A Comparative Study to Analyze Structure based Interaction Specificity In Extremophiles
31.	Vidhi Mehta	2007	BE, Biotech, JECRC, Jaipur	UG	A Comparative Study To Analyze Structure Based Evolutionary Trends In Extremophiles
32.	Vipin Singh	2008	M.Tech BioTechnology, Madhav Institute of Tech. & Science, Gwalior	PG	Database preparation for Neural Network Analysis of Proteins undergoing Ubiquitylation
33.	Divya Kumari	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	Neural Network Analysis of Proteins undergoing Ubiquitylation
34.	Abhishek Tiwari	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	Development of Clinical Trial Database Management System
35.	Ankur Medatwal	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	Database development of Secondary Structure Elements in Extremophilic Proteins
36.	Anu Dhawan	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	Analysis of Retrotransposon in Macaca mullata: A Case Study with Alu
37.	Kanika Srivastava	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	Analysis of Secondary Structure Elements in Thermophilic Proteins
38.	Megha Vyas	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	In-Silico Analysis of Secondary Structure Elements in Extremophilic Proteins
39.	Garima Choudhary	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	Neural Network Analysis of Proteins undergo Post Translational Modifications
40.	Saravan Kumar	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	Analysis of Conserved Atomic Interactions in NAD binding Complexes of proteins
41.	Shradha Mishra	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	Analysis of Conserved Interactions in ATP binding Protein Complexes

42.	Manisha Gupta	2008	M.Sc Bioinformatics, BIT Mesra, Jaipur	PG	Analysis of Conserved Atomic Interactions in Protein-Ligand Complexes
43.	Nidhi Sharma	2009	M.Sc (Bioinformatics), Banasthali University	PG	To study the role of codons in molecular phylogeny of selected extremophiles
44.	Megha Saxena	2009	M.Sc Bioinformatics, Banasthali University	PG	To Develop A Web Interface For The Analysis Of Residual Composition In Selected Extremophiles
45.	Navjot Kumnari	2010	M.Sc Bioinformatics, Banasthali University	PG	Analysis of Secondary Structure Elements of Selected Extremophiles
46.	Neha Sanghi	2010	M.Sc Bioinformatics, Banasthali University	PG	Comparative Analysis of Electrostatic Energy Profiles Among Different Extremophiles
47.	Shivi Singhal	2010	M.Sc Bioinformatics, Banasthali University	PG	Analysis of Ligand-Receptor Atomic Interaction Profile of Selected Protein Complexes
48.	Navjot Kour Handa	2010	B.Tech (Biotech.), JECRC, Jaipur	UG	Internal Correspondence Analysis of Enzymes of Citric Acid Cycle Against the Genome of Selected Extreme Organisms
49.	Arish Quereshi	2011	B. Tech (Bioinformatics),VIT University, Vellore	UG	To develop Ligand Interaction Analyzer (PLIA)
50.	Bhaskar Gangwal	2011	B.Tech (Biotech.), JECRC, Jaipur	UG	Comparative Analysis of Helix Composition in Extremophiles
51.	Kalpana Dixit	2012	B.Tech (Biotech.), JECRC, Jaipur	UG	To Study The Effect Of Codon Restriction On Molecular Adaptability
52.	Deepti Varshney	2012	M.Sc.(Biotech.), Jayoti Vidyapeeth Women's University, Jaipur	PG	Comparative Analysis of Residual Composition in Extremophilic Proteins
53.	Kritika Gadi	2012	B.Tech.(Biotechnology), JNU, Jaipur,	UG	Comparative Study of Compositional aspects of Extremophilic Proteins: A Statistical Approach
54.	Amit Katoda	2012	M. Tech. Bioinformatics, CCT, Raj University	PG	Interaction Specificity of Protein Structure Complexes Containing Energetic Compounds
55.	Poonam Kumari	2013	M.Sc. (Bioinformatics), Banasthali University,	PG	Analysis of Hydrogen-Bonding Interactions in Protein Complexes containing Energetic Compounds
56.	Sonam Trimurti	2013	M.Sc. (Bioinformatics), Banasthali University,	PG	Analysis of Hydrogen-Bonding Interactions in Metal Binding Protein Complexes
57.	Rajesh Kumar Jangid	2013	M.Sc.(Bioinformatics), JNU, Jaipur	PG	To study Atom-Atom Contact Network In Extremophilic Microorganisms
58.	Himani Sharma	2013	B.Tech. Biotech, Banasthali University,	UG	Preparation of database of specific oligonucleotides for the detection of water pathogens

59.	Payal Shobnani	2013	B.Tech. Biotech, Banasthali University,	UG	To Study and Analyse the Evolution of Microorganism using Nucleotide Frequency through Glycolysis and TCA Cycle
60.	Bhanu Chowla	2014	M.Tech Bioinformatics, Delhi Technological University, Delhi, India	PG	Database Development of 'Species Specific Primers' for the Detection of Food Pathogens
61.	Mansi Gohil	2014	B.Tech. Biotechnology, JNU, Jaipur	UG	Designing real time polymerase chain reaction assay for detection of waterborne pathogens
62.	Sandeep Kumar	2014	M.Tech. Bioinformatics, CCT, University of Rajasthan	PG	Development of 5′ UTR analysis tool and study of utr's of various enzyme producing genes of TCA pathway in prokaryotic organisms
63.	Rajendra Kumar	2014	M.Tech. Bioinformatics, CCT, University of Rajasthan	PG	To develop UTR analyzer tool and study UTR of different TCA cycle's enzyme for eubacteria group
64.	Neetu Sharma	2015	B.Tech (Biotechnology), Banasthali University	UG	Development of Circular Map Visualizer for Multilevel Nucleotide Frequency of Prokaryotic Genomes
65.	Shaivee Agarwal	2015	B.Tech (Biotechnology), Banasthali University.	UG	Comparative Analysis of Repetitive Elements in Genomic DNA of Extremophilic Microorganisms
66.	Ayushi Kumari	2015	B.Tech (Biotechnology), Banasthali University	UG	To Develop A Web Based Tool To Study Repetitive DNA And Nucleotide Frequencies at Genome Level
67.	Abhinav Mehra	2016	M.Tech. Bioinformatics, CCT, University of Rajasthan	PG	Development of Database of Biochemical Tests of Selected Genus of Enterobacteriaceae Family
68.	Sameer Mathur	2016	M.Tech. Bioinformatics, CCT, University of Rajasthan	PG	Development of Database of Biochemical Tests of Enterobacteriaceae
69.	Monisha Singhal	2016	M.Sc (Biotechnology), The IIS University, Jaipur	PG	Development of Protocol for Molecular Detection of Food Borne Human Pathogens
70	Aditi Sharma	2017	B. Tech. (Biotech), JNU, Jaipur	UG	Development of Database of Proteobacteria: Alpha Proteobacteria
71	Harshit Shrivastava	2017	B. Tech. (Biotech), JNU, Jaipur	UG	Development of Database of Proteobacteria: Gamma Proteobacteria
72	Mamta Singh	2019	B. Tech. (Biotech), JNU, Jaipur	UG	Virtual Screening and scaffold hopping of anti-inflammatory compounds
73	Anand Mohan	2019	B.TEch. Thapar Institute of Engg & Technology, Patiala	UG	Development of Database of Biochemical Tests of Archaebacteria
74	Hitesh Khandelwal	2021	B.Sc. Biotechnology, B Lal Institute of Biotechnology	UG	Development Of Database Of Drug-Target Interaction In Tb & Dengue

75	Seema Sharma	2022	MSc Bioinfo, JNU, Jaipur	PG	Development of Database-Cum-Tool for Identification of Biochemical Tests of Eubacteria
76	Manavi Katiyar	2022	MSc Bioinfo,, JNU, Jaipur	PG	Immunoinformatics Approach for Design of Multi-epitope Vaccine Against Dengue Viruses
77	Aviral Kaushik	2022	MSc Bioinfo, JNU, Jaipur	PG	Exploring the Potency of Existing Drugs Against Dengue Virus using Bioinformatics Approach
78	Neha Generia	2025	MSc Bioinfo, BIT	PG	Multi-epitope vaccine design against H.Pylori
79	Sharmisttha Bharti	2025	MSc Bioinfo, BIT	PG	Analysis of different neurological disorders data using AIML
80	Vishistha Pandit	2025	MSc Bioinfo, BIT	PG	NGS data analysis of metagenomic data of dental disorder