Dr. Manish Kumar Gupta *M.Tech., Ph.D.*
Associate Professor
Department of Biotechnology &
Veer Bahadur Singh Purvanchal University, Jaunpur -222003, UP, India
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Education:

- **Ph.D. (Bioinformatics)** 2015
  Dr. APJ Abdul Kalam Technical University, Lucknow, India.
- **Master of Technology (Bioinformatics)** 2005
  Indian Institute of Information Technology-Allahabad, India
- **Master of Science (Biotechnology)** 2003
  University of Hyderabad, Telangana, India, (University with 'Institution of Eminence')
- **Bachelor of Science (Chemistry, Zoology, Botany)** 1999
  DDU Gorakhpur University, Gorakhpur, Uttar Pradesh, India

Research Interest:

our main concern is the understanding of underlying molecular complexity for Bcl-2 family proteins involvement in several non-apoptotic pathways along with apoptotic for identification of topological, functional and disease modules and the molecular interactions among various discrete phenotypes which regulate the cell death mechanism via non-apoptotic ways. Unravel the new disease genes, biomarkers and novel drugs targets would be further advances in this direction. To investigate those, we combine computational analysis with biological tools & databases with large scale data sets generated using state-of-the-art high-throughput sequencing and investigation protocols. Our focus in this regard is non-communicable diseases such as cancer, thyroid disorder, diabetes etc.

Research Areas:

Bioinformatics, Network Biology, Systems Biology, Computer Aided Drug Design, QSAR, Molecular Dynamics Simulation, In Silico Vaccine Designing

Research Project

1. **Title:** ceRNET: ceRNA Network and Non-Coding RNA Interaction Mapping in Medicinal & Aromatic Plants
   Capacity: PI (Dr. Manish Kumar Gupta) at VBSPU
   Collaboration: Dr Prabodh Kumar Trivedi (PI), Dr Aman Chandra Kaushik (Co-PI), Dr Ashish Sharma (Co-PI) at CSIR-CIMAP
   File No: ANRF/ARG/2025/004506/LS **Year:** 2026
   Funding Agency: ANRF (ARG), DST Total Cost: 8045160(Rs Eighty Lakh Forty five thousand one hundred sixty only) **Duration:** 2026-2029
   Status: Ongoing

2. **Title:** Development of lead like molecules targeting ESKAPE pathogen essential proteins.
   Funding Agency: Department of Higher Education, Govt of Uttar Pradesh under Establishment of **"Centre of Excellence"** Scheme on Research Subject: Rational Drug Designing (Health – Genomics and Pharmaceuticals

Total cost: 20 Lakh **Year:** 2024 **Duration:** 2024-2027 **Status:** Ongoing **Capacity:** PI

3. **Title:** Bacteria-based aerobic biodegradation and toxicity assessments of carpet industry azo dyes for sustainable agriculture (Project ID: 4059) **Year of Sanction:2024**
   Funding Agency: Council of Science and Technology, Govt of Uttar Pradesh
   Total cost: 14.36 Lakh **Duration:** 2024-2027 **Status:** Ongoing **Capacity:** Co-PI

4. **Title:** Insilico identification and molecular interaction study of repurposed drugs against concurrent infection of SARS-CoV-2 and Tuberculosis
   Funding Agency: Department of Higher Education, Govt of Uttar Pradesh under **"Research and Development"** Scheme **Year of Sanction:** March 2023
   Total cost: 5 Lakh **Duration:** 2024-2027 **Status:** Ongoing **Capacity:** PI

5. **Title:** Identification of pathways involving Bcl-2 family of proteins: A network biology approach
   Funding Agency: SERB, DST Govt of India under TARE Scheme
   Total cost: 18.3 Lakh (11.75) **Duration:** 2019-2022 **Status:** Completed **Capacity:** PI

6. **Title:** INSPIRE INTERNSHIP Science Camp
   Funding Agency: DST, Govt of India
   Total Cost: 13 Lakh **Duration:** 27-31 January 2020 **Status:** Completed **Capacity:** PI
   Outcome: The objective of the Objective of the INSPIRE to build the required critical human resource pool for strengthening and expanding the Science & Technology system and R & D base. Thus 201 Students of Intermediate Level were benefitted with 5 days residential INSPIRE Internship science camp and learned Science experiment and were interacted with well renown academician/scientist.

IPR Publication Patent /Design Registration:

1. **Title of the Invention:** DESIGN AND RECOMBINANT EXPRESSION OF MULTI-EPITOPE VACCINE CONSTRUCTS TARGETING MONKEYPOX VIRUS
   Inventors Name: Manjusa Singh, Dr. Manish Kumar Gupta, Prof. Rajeev Kumar Kapoor, Prof. Rajesh Sharma
   Application No. 202611062309 A **Date of filing of Application :**16/05/2026
   The Patent Office Journal No. 35/2026 (107772) **Publication Date:** 28/08/2026, India
2. **Title of the Invention:** AI-POWERED MEDICAL DEVICE FOR EARLY DETECTION OF ORAL CANCER
   Inventors Name: Dr. Manish Kumar Gupta, Dr. Chirantan Maity, Dr. Amit Kumar , Prof. Aneesh Sreevallabh Chivukula, Dr. Deepika Pahuja, Dr. Sushma Sushma, Ms. Abira Bhattacharya, Tathagata Roy Chowdhury, Ms. Madhurima Paul, Ms. Kajal Yadav
   Design number: 6544078 **Grant date:** 17 August 2026
   Publication date: 18 August 2026 **Registration date:** 04 August 2026
   Register Country: UK **Status:** Registered
   https://www.registered-design.service.gov.uk/find/6544078
   https://www.registered-design.service.gov.uk/document/design/bc5b44e3-57c8-452f-ac7e-cec00dd0e6cc
3. **Title of the Invention:** MODULAR NANO-BIOSENSOR CARTRIDGE WITH TARGETED DRUG RELEASE ARCHITECTURE FOR CANCERTHERAPY

Inventors Name: Dr. Manish Kumar Gupta, Atifa Hafeez, Dr. Harsimran Kaur, Dr. Wajid Mohammad Sheikh, Dr. Ovais Aarif, Dr. Preeti Rajesh, Dr. Mohammad Rayees Dar, Dr. Majid Shafi Kawoosa, Dr. Sweety Ahalawat, Dr. Ranjit Barua, Dr. Biswaranjan Paital
Design number: 6505296 **Grant date:** 25 February 2026
Publication date: 26 February 2026 **Registration date:** 09 February 2026
Register Country: UK **Status:** Registered
https://www.registered-design.service.gov.uk/find/6505296

4. **Title of the Invention:** SMART DIAGNOSTIC AND DETECTION DEVICE FOR CROP PATHOGENS
Inventors Name:-Dr. Paramita Biswas, Dr. Paramita Bhowmik, Dr. Manish Kumar Gupta, Dr. Sushma Sushma, Dr. Fareha Bano, Dr. Hariharan Perumal, Paramita Dhara, Dr. Chiranjib Chakravartty, Dr. Deepshikha Datta, Dr. Bankim Chandra
Rudra, Dr. Biswaranjan Paital, Dr. Santanu Koley
Design number: 6504198
Grant date: 25 February 2026 **Registration date:** 04 February 2026
Register Country: UK **Status :** Registered
https://www.registered-design.service.gov.uk/find/6504198
5. **Title of the invention:** A SYSTEM AND METHOD FOR BLOCKCHAIN-INTEGRATED BIOSENSING WITH INTELLIGENT SIGNAL PROCESSING AND SECURE DATA VERIFICATION
Inventors Name: Dr. Manish Kumar Gupta, Dr. Pramod Katara, Dr. Praveen Katiyar, Prof. Rajesh Sharma
Application No.202511099426 A **Date of filing of Application :**15/10/2025
The Patent Office Journal No. 49/2025 Dated 05/12/2025 (120372) India
6. **Title of the Invention:** IOT-ENABLED CRISPR FOOD SAFETY SCANNER WITH MOBILE SYNC
Inventors Name: Dr. Manish Kumar Gupta, Dr. Raj Kumar Joshi, Dr. Biswaranjan Paital, Dr. Sayoni Nag, Dr. Anton Satria Prabuwono, Jhanhabi Ray, Oinam Manganleiba Meetei, Dr. Shamba Chatterjee, Dr.Prakash Pandurangan, Raghul Rajah Santha Moorthi Rajah, Dr. Santanu Koley
Design number: 6477960 **Grant date:** 16 October 2025 **Registration date:** 06 October 2025
Register Country: UK
https://www.registered-design.service.gov.uk/find/6477960
7. **Title of the Invention:** COMPACT CRISPR FOOD PATHOGEN DETECTION CARTRIDGE
Inventors Name: Dr. Bidisha Mondal, **Dr. Manish Kumar Gupta,** Dr. Raj Kumar Joshi, Atif Khurshid Wani, Dr. P. Kiran Kumari, Dr. Swati Ray, Dr. Gaurav Sureshchandra Shah, Dr. Fareha Bano, Dr. Razique Anwer, Dr. Sandeep Kaur
Design No.: 473419-001 **Date of Registration:** 13/09/2025 (Class 24 -02)
The Patent Office Journal No. 03/2026 Dated 16/01/2026 (10372) India **Status:** Granted

8. **Title of the Invention:** CRISPR-BASED RAPID TESTING STRIP FOR FOODBORNE VIRUS
Inventors Name: Dr. Amardeep Singh Virdi, Dr. Pawan Kumar Sharma, Dr. Deshmukh Narendra Manikrao, Dr. Sourav Ghosh, **Dr. Manish Kumar Gupta,** Dr. Uday Kiran Avasthi, Dr. Deepshikha Datta, Ashok Kumar Sarangi, Dr. Anusuya Debnath, Dr. Santanu Koley

Design No.: 469541-001 **Date of Registration:** 12/08/2025
The Patent Office Journal No. 52/2025 Dated 26/12/2025 (135400) India

9. **Title of the Invention:** Table-Top Ultrasonic Sanitizer
Inventors Name: Ipsit Dubey, Dr. Kirti Kumari Dubey, Dr. Ramendra Pati Pandey, **Dr. Manish Kumar Gupta,** Dr. Chirantan Maity, Dr. Amrendra Singh Virdi, Oinam Manganleiba Meetei, Dr. Chiranjib Chakravartty, Ashok Kumar Sarangi, Dr. Santanu Koley
Design No: 464475-001 **Filing Date:** 15/03/2024 **Issued date:** 02/09/2025
Application Status: Granted
The Patent Office Journal No. 36/2025 Dated 05/09/2025 (89847)
10. **Title of the Invention:** Aptamer for *Pasteurella multocida* detection
Inventors Name: Subodh Soni, Dr. Hari Mohan, Dr. Krishna Kant Sharma, **Dr. Manish Kumar Gupta,** Sanjay Kumar, Dr. Rajesh Kumar, and Dr. Sachin Kumar
Publication No: 19/2024 **Publication Date:** 10/05/2024 **Application No:** 202411018924
Application Filing Date: 15/03/2024 **Field of Invention:** Biotechnology
The Patent Office Journal No. 19/2024 Dated 10/05/2024 (44308) India

Publications: Research (http://scholar.google.co.in/citations?user=d4__y4AAAAAJ)

1. Kumari, P.; Sharma, G.; **Gupta, M. K**.; Keshari, V.; Saxena, R. Bioinformatics Pipelines for Metagenomics: A Review of Data Processing and Functional Annotation Approaches. Chem Biol Lett 2026, 13 (3), 1775. https://doi.org/10.62110/sciencein.cbl.2026.v13.1775 (**IF 5.6**).
2. Manjusa Singh, Atifa Hafeez, Sanjay Kumar, **Manish Kumar Gupta**, "Reverse Vaccinology and Immunoinformatics Based Design of an mRNA Multi-Epitope Vaccine against MPXV", In Silico Research in Biomedicine, Vol 2, **2026**, 100279, ISSN 3050-7871, Available online 10 March 2026, Published on 16 March 2026 https://doi.org/10.1016/j.insi.2026.100279
3. Subodh Soni, Priyanka, Pooja Chugh, Nisha Ghanghas, Manjeet Chahar, Sanjay Kumar, **Manish Kumar Gupta**, Hari Mohan. Unravelling *Pasteurella multocida* Toxin (PMT): Structural insights, antibiotic assessment, and identification of potential inhibitors. Computational Biology and Chemistry, Volume 119, **2025,** 108567, ISSN 1476-9271, https://doi.org/10.1016/j.compbiolchem.2025.108567 (**IF 3.1**)
4. Singh P., Kasaudhan J., Tripathi M., **Gupta Manish Kumar.**, Mondal S. Pharmacological applications of fish components and products in oxidative stress-induced diseases. Agriculture and Food Bioactive Compounds **2025;** 2(4): 62-75. **ISSN: 3068-8051**. **DOI:** https://doi.org/10.31989/afbc.v2i4.1597
5. Singh P., Kasaudhan J., Tripathi M., **Gupta Manish Kumar.**, Mondal S. Technological approaches for commercial production of functional food through fish farming: Opportunities and challenges. Functional Food Science **2025**; 5(2): 46-56. ISSN: 2767-3146 DOI:https://www.doi.org/10.31989/ffs.v5i2.1551
6. Rohit Sahu, **Manish Kumar Gupta,** Satendra Singh, Budhayash Gautam, Pramod Kumar Yadav **(2024)**. In silico structural, functional, and virtual screening study against proteasome subunit alpha of *Mycobacterium abscessus* subsp. *bolletii* as a drug target. African Journal of Biomedical Research, 27 (3S) (September2024); 755-769. (ISSN 1119-5096). DOI https://doi.org/10.53555/AJBR.v27i3S.2113

7. Divya Malviya, **Manish Kumar Gupta**, Rajesh Sharma **(2024)**. Extraction, Characterization and Optimization of Alginate Biopolymer Produced by *Azotobacter Bryophylli* PU-RSD03 Isolated from Wheat Rhizospheric Soil. African Journal of Biomedical Research, 27 (3S), 1689-1703 (ISSN 1119-5096) **DOI:** https://doi.org/10.53555/AJBR.v27i3S.2395
8. **Manish Kumar Gupta**, Anurag Mishra, Praveen Katiyar, Sanjay Kumar, Pramod Kumar Singh, Rakesh Kumar Dixit, Ajay Kumar Gupta, Indrajeet Singh **(2023).** The Role of Polyherbal Drugs as Neuroprotective Agents. European Chemical Bulletin, 2023, 12(10), 8092-8181. ISSN:2063-5346. https://www.eurchembull.com/archives/volume-12/issue-10/11576
9. Sanjay Kumar, **Manish Kumar Gupta**, Sunil Kumar Gupta & Pramod Katara (**2022**) Investigation of molecular interaction and conformational stability of disease concomitant to HLA-DRβ3. Journal of Biomolecular Structure and Dynamics, 41(17), 8417–8431. **(IF 2.7)** Print ISSN: 0739-1102 Online ISSN: 1538-0254. Accepted 03 Oct 2022, Published online: 17 Oct 2022 https://doi.org/10.1080/07391102.2022.2134211
10. **Gupta MK**, Misra K, (2016) A holistic approach for integration of biological systems and usage in drug discovery. Journal of Network Modeling Analysis in Health Informatics and Bioinformatics 5(1): Article 4 (ISSN: 2192-6662; Online ISSN: 2192-6670) (**IF 2.0**) https://doi.org/10.1007/s13721-015-0111-4
11. Singh DB, **Gupta MK**, Kesharwani A, Kumar R, Sagar M, Dwivedi S, Misra K (2014) Molecular drug targets and therapies for Alzheimer's disease. Translational Neuroscience 5(3): 203-217 (Print ISSN:2081-3856 Online ISSN:2081-6936) **(IF 2.2**). https://doi.org/10.2478/s13380-014-0222-x
12. Sagar M, Pathak RK, Pandey RK, Singh DB, Pandey N, **Gupta MK** (2014) Binding affinity analysis and ADMET prediction of epigallocatechine gallate (EGCG) derivatives for AP-1 protein: a drug target for liver cancer. Network Modeling Analysis in Health Informatics and Bioinformatics 3:66 (ISSN: 2192-6662; Online ISSN: 2192-6670) (**IF 2.0**). https://doi.org/10.1007/s13721-014-0066-x
13. **Gupta MK**, Misra K (2014) Atom based 3D-QSAR, molecular docking and molecular dynamics simulation assessment of inhibitors for thyroid hormone receptor α and β. Journal of Molecular Modeling 20:2286 (Print ISSN:1610-2940; Online ISSN:0948-5023) **(IF 2.1)** https://doi.org/10.1007/s00894-014-2286-5
14. **Gupta MK,** Singh DB, Shukla R, Misra K (2013) Comprehensive metabolic modeling of thyroid pathway.in relation to thyroid pathophysiology and therapeutics. OMICS: A Journal of Integrative Biology. 17(11):584-593 (Print ISSN: 1536-2310 Online ISSN: 1557-8100) (**IF 2.2)** https://doi.org/10.1089/omi.2013.0007
15. Singh DB, **Gupta MK**, Singh DV, Singh SK, Misra K (2013) Docking and In silico ADMET studies of noraristeromycin**,** curcumin and their derivatives with *Plasmodium falciparum* SAH hydrolase*:* A molecular drug target against malaria**.** Interdisciplinary Sciences: Computational Life Sciences. 5:1-12 (ISSN: 1913-2751; Online ISSN 1867-1462) (**IF 3.9**). https://doi.org/10.1007/s12539-013-0147-z
16. Singh DB, **Gupta MK**, Misra K (2013) Comparative Docking and ADMET Study of Some Curcumin Derivatives and Herbal Congeners Targeting beta-Amyloid. Journal of Network Modeling Analysis in Health Informatics and Bioinformatics. 2(1):13-27 (ISSN: 2192-6662; Online ISSN: 2192-6670) (**IF 2.0**). https://doi.org/10.1007/s13721-012-0021-7

17. **Gupta MK**, Misra K, (2013**)** Modeling and Simulation Analysis of Propylthiouracil (PTU), an Anti-thyroid drug on Thyroid Peroxidase (TPO), Thyroid Stimulating Hormone Receptor (TSHR) and Sodium Iodide Symporter (NIS) based on Systems Biology Approach. Journal of Network Modeling Analysis in Health Informatics and Bioinformatics. 2(1): 45-27 (ISSN: 2192-6662; Online ISSN: 2192-6670) (**IF 2.0**). https://doi.org/10.1007/s13721-013-0023-0
18. **Gupta MK**, Agarwal K, Prakash N, Singh DV, Misra K (2012) Prediction of miRNA in HIV-1 genome and its targets through artificial neural network: a bioinformatics approach. Journal of Network Modeling Analysis in Health Informatics and Bioinformatics. 1(4):141-151 (ISSN: 2192-6662; Online ISSN: 2192-6670). https://doi.org/10.1007/s13721-012-0017-3
19. **Gupta MK**, Singh DB, Misra K (2012) Metabolic Modeling and Simulation Analysis of Thyroid Disorder Pathways. J Comput Sci Syst Biol. 5(2):52-61 (ISSN: 0974 -7230). 10.4172/jcsb.1000090
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21. Singh S, Gupta SK, Sabir G, **Gupta MK**, Seth PK (2009) A database for anti-diabetic plants with clinical / experimental trials. Bioinformation. 31;4(6):263-268 (Online ISSN 0973-2063; Print ISSN 0973-8894) **(IF 0.50).** https://doi.org/10.6026/97320630004263

Books / Book Chapters

Edited Book

1. **Manish Kumar Gupta**, Sanjay Kumar, Krishna Misra (1st Edition – October 1, 2026). The AI Frontier in Molecular Modelling and Drug Designing. Elsevier ISBN 9780443403385 (Under Press). **ISBN-10 :** 0443403384, **ISBN-13 :** 978-0443403385 Publisher Academic Press https://shop.elsevier.com/books/the-ai-frontier-in-molecular-modelling-and-drug-designing/gupta/978-0-443-40338-5
2. **Manish Kumar Gupta**, Pramod Katara, Sukanta Mondal, Ram Lakhan Singh (1st Edition - May, **2024**) Integrative Omics: Concept, Methodology and Application, Elsevier Paperback ISBN: 9780443160929 eBook ISBN: 9780443160936 (375 page) **DOI:** 10.1016/C2022-0-02403-X https://www.sciencedirect.com/book/9780443160929/integrative-omics
3. Mishra Giridhar, Dhawan Punit Kumar, **Gupta Manish Kumar**, Singh Devraj (Novem **2019**) "Ultrasonics and Materials Science for Advanced Technology" Narosa Publishing House Pvt. Ltd. (ISBN 978-81-8487-703-8)
   Ultrasonics and Materials Science for Advanced Technology (2021)
   Giridhar Mishra, Punit K. Dhawan, Manish Kumar Gupta, Devraj Singh
   Print length : 424 pages ISBN-10 : 1783325461 ISBN-13: 978-1783325467
   Publisher : Alpha Science International Ltd Publication date: 30 March 2021
   http://www.narosa.com/books_display.asp?catgcode=978-81-8487-703-8

Book Chapters

1. Sanjay Kumar Singh, Atifa Hafeez, **Manish Kumar Gupta**, Chapter 12 - Single nucleotide polymorphism analysis and related genetic disorders. Editor(s): Dev Bukhsh Singh, Timir Tripathi. Genome Analysis: Methods and Application. Academic Press, 2025, Page No 369-390, ISBN: 9780443219801, online 14 November 2025. https://doi.org/10.1016/B978-0-443-21980-1.00003-6
2. Atifa Hafeez, Upasna Srivastava, **Manish Kumar Gupta**, Chapter - 3 Databases for genome and genomic information. Editor(s): Dev Bukhsh Singh, Timir Tripathi. Genome Analysis:

Methods and Application. Academic Press, 2025, Page No 73-108, ISBN: 9780443219801, Online 14 November 2025 https://doi.org/10.1016/B978-0-443-21980-1.00018-8

3. Swarna Kanchan, Minu Kesheri, Upasna Srivastava, Pranjal Jayaswal, **Manish Kumar Gupta**, Chapter 8 - Advances in transcriptomics data analysis. Editor(s): Dev Bukhsh Singh, Timir Tripathi. Genome Analysis: Methods and Application. Academic Press, 2025, Page No 227-252, ISBN: 9780443219801, online 14 November 2025 https://doi.org/10.1016/B978-0-443-21980-1.00020-6
4. Srivastava, U., Sukreet, S., Kanchan, S., Kesheri, M., **Gupta, M.K. (2025)**. Multiresolution Insights into Single-Cell Landscapes: Integrating Genomics, Epigenomics, and Proteomics for Brain Studies. In: Kesheri, M., Kanchan, S., Häder, DP., Sinha, R.P. (eds) Multi-Omics in Biomedical Sciences and Environmental Sustainability. Springer, Singapore. Online: 26 June 2025 Print ISBN978-981-96-7066-6 Online ISBN978-981-96-7067-3 https://doi.org/10.1007/978-981-96-7067-3_4
5. Jain, P., Pundir, R.K., Yogi, R., **Gupta, M.K. (2025**). New Insights into Lignocellulosic Feedstock Conversion Into Bioethanol: Biotechnological Perspectives. In: Kapoor, R.K., Rajan, K. (eds) Lignocellulosic Biomass and Enzymes. Springer, Singapore. Online: 25 April 2025, Print ISBN978-981-96-3036-3 Online ISBN978-981-96-3037-0 https://doi.org/10.1007/978-981-96-3037-0_15
6. Rajeev Kumar Kapoor, Atifa Hafeez, Sanjay Kumar, Dhirender Mishra, **Manish Kumar Gupta**, Chapter 15 - Intellectual property rights of medicinal products. Editor(s): Dev Bukhsh Singh and Santosh Kumar Upadhyay. Medicinal Biotechnology: Methods and Application. Academic Press, **2024**, Page No 327-341, ISBN: 978-0-443-22264-1 Available online 22 November 2024, Version of Record 22 November 2024. https://doi.org/10.1016/B978-0-443-22264-1.00015-3
7. Upasna Srivastava, Swarna Kanchan, Minu Kesheri, **Manish Kumar Gupta**, Satendra Singh, Chapter 2 - Types of omics data: Genomics, metagenomics, epigenomics, transcriptomics, proteomics, metabolomics, and phenomics. Editor(s): Manish Kumar Gupta, Pramod Katara, Sukanta Mondal, Ram Lakhan Singh. Integrative Omics: Concept, Methodology and Application, Academic Press, 2024, Pages 13-34, ISBN 9780443160929, online 10 May 2024 https://doi.org/10.1016/B978-0-443-16092-9.00002-3.
8. Atifa Hafeez, Archana Gupta, **Manish Kumar Gupta**, Chapter 3 - Biological omics databases and tools, Editor(s): Manish Kumar Gupta, Pramod Katara, Sukanta Mondal, Ram Lakhan Singh, Integrative Omics: Concept, Methodology and Application, Academic Press, 2024, Pages 35-53, ISBN 9780443160929, online 10 May 2024 https://doi.org/10.1016/B978-0-443-16092-9.00003-5
9. Sanjay Kumar, Manjusa Singh, Rajesh Sharma, **Manish Kumar Gupta**, Chapter 4 - Systematic benchmarking of omics computational tools, Editor(s): Manish Kumar Gupta, Pramod Katara, Sukanta Mondal, Ram Lakhan Singh, Integrative Omics: Concept, Methodology and Application, Academic Press, 2024, Pages 55-83, ISBN 9780443160929, online 10 May 2024 https://doi.org/10.1016/B978-0-443-16092-9.00004-7
10. Upasna Srivastava, Swarna Kanchan, Minu Kesheri, **Manish Kumar Gupta**, Satendra Singh, Chapter 10 - Integrative omics approaches for identification of biomarkers, Editor(s): Manish Kumar Gupta, Pramod Katara, Sukanta Mondal, Ram Lakhan Singh, Integrative Omics: Concept, Methodology and Application, Academic Press,2024, Pages 157-173,ISBN 9780443160929, online 10 May 2024 https://doi.org/10.1016/B978-0-443-16092-9.00010-2
11. Sanjay Kumar, **Manish Kumar Gupta**, Chapter 13 - Data management in cross-omics, Editor(s): Manish Kumar Gupta, Pramod Katara, Sukanta Mondal, Ram Lakhan Singh, Integrative Omics: Concept, Methodology and Application, Academic Press, 2024, Pages 201-223, ISBN 9780443160929, online 10 May 2024 https://doi.org/10.1016/B978-0-443-16092-9.00013-8

12. Sanjay Kumar, **Manish Kumar Gupta**, Chapter 16 - Data science and analytics, modeling, simulation, and issues of omics dataset, Editor(s): Manish Kumar Gupta, Pramod Katara, Sukanta Mondal, Ram Lakhan Singh, Integrative Omics: Concept, Methodology and Application, Academic Press, **2024**, Pages 257-278, ISBN 9780443160929, online 10 May 2024 https://doi.org/10.1016/B978-0-443-16092-9.00016-3
13. Shiv Kumar Yadav, Atifa Hafeez, Raj Kumar, **Manish Kumar Gupta**, Ravi Kumar Gutti, Chapter 21 - Biomolecular networks, Editor(s): Manish Kumar Gupta, Pramod Katara, Sukanta Mondal, Ram Lakhan Singh, Integrative Omics: Concept, Methodology and Application, Academic Press, **2024**, Pages 351-367, ISBN 9780443160929, online 10 May 2024 https://doi.org/10.1016/B978-0-443-16092-9.00021-7
14. Manjusa Singh, Athaven Sukunathan, Swati Jain, Sunil Kumar Gupta, Ram Lakhan Singh, **Manish Kumar Gupta,** Chapter 23 - Omics technology policy and society research, Editor(s): Manish Kumar Gupta, Pramod Katara, Sukanta Mondal, Ram Lakhan Singh, Integrative Omics: Concept, Methodology and Application, Academic Press, **2024**, Pages 379-400, ISBN 9780443160929, online 10 May 2024 https://doi.org/10.1016/B978-0-443-16092-9.00023-0
15. Pramod Kumar Singh, **Manish Kumar Gupta,** Rajendra Nath **(2023)** Chapter 16 - Omega-3 fatty acid as a protectant in lead-induced neurotoxicity. Treatments, Nutraceuticals, Supplements, and Herbal Medicine in Neurological Disorders. Colin R. Martin, Vinood B. Patel and Victor R. Preedy (Eds.). Page No 285-301, Academic Press (ISBN 978-0-323-90052-20) online 16 June 2023 https://doi.org/10.1016/B978-0-323-90052-2.00002-0
16. Pramod Katara, Shivani Tyagi, and **Manish Kumar Gupta (2023)** Chapter 1- Integrative Omics Trends and Scope for Agriculture. A Mani, A., & Kushwaha, S. (Eds.) (2023). Genomics of Plant–Pathogen Interaction and the Stress Response (1st ed.) Page 1-16. CRC Press. (eBook ISBN 9781003153481) Publish On 25 September 2023 https://doi.org/10.1201/9781003153481
17. Singh P.K., Nath R., Naraian R., **Gupta M.K. (2020)** Structural and Functional Aspects of Muscarinic Receptors in Correlation with Anticholinergic Drugs. In: Singh D., Tripathi T. (eds) Frontiers in Protein Structure, Function, and Dynamics. Page No 317-338. Springer, Singapore. (Online ISBN 978-981-15-5530-5, print 978-981-15-5529-9) Online: 03 July 2020 https://doi.org/10.1007/978-981-15-5530-5_13
18. Singh Dev Bukhsh, **Gupta Manish Kumar**, Pathak Rajesh Kumar **(2020)** Natural Products in Cancer Chemoprevention and Chemotherapy. Frontiers in Natural Product Chemistry. Vol 6 Pp. 3-34 (32) Benthom Science **Publication Date:** August 2020 (ISBN: 978-981-14-4846-1 (Online) ISBN: 978-981-14-4844-7 (Print) 10.2174/9789811448461120060007 https://www.eurekaselect.com/chapter/13609
19. Roshan Lal Gautam, Shweta Singh, **Manish Kumar Gupta** and Ram Naraian (**2020**) Effect of Four Different Oil Seed Cakes on Yield and Lignocellulolytic Enzymes During Cultivation of Oyster Mushroom *Pleurotus florida*. Page No 195-200. Ultrasonics and Materials Science for Advanced Technology, Narosa Publishing House New Delhi (ISBN 978-81-8487-703-8) http://www.narosa.com/books_display.asp?catgcode=978-81-8487-703-8
20. Abhishek K. Bhardwaj, K. N. Uttam, **Manish Kumar Gupta**, Ram Naraian, and Ram Gopal (**2020**) Synthesis of Copper Nanostructure Using Sonochemical Assisted Co-Precipitation Method and Their Antibacterial Study. Page N0 201-206. Ultrasonics and Materials Science for Advanced Technology, Narosa Publishing House New Delhi (ISBN 978-81-8487-703-8) http://www.narosa.com/books_display.asp?catgcode=978-81-8487-703-8
21. Abhishek K. Bhardwaj, **Manish Kumar Gupta**, and R. Naraian (**2019**) Chapter 12 - Myco-Nanotechnological Approach for Improved Degradation of Lignocellulosic Waste: Its Future Aspect. Page 227-245. *Mycodegradation of Lignocelluloses*, Fungal Biology, Springer Cham (ISBN 978-3-030-23833-9) ISBN 978-3-030-23834-6 (eBook) https://doi.org/10.1007/978-3-030-23834-6_12

22. Ram Naraian, Roshan Lal Gautam, Siya Ram, and **Manish Kumar Gupta** (**2019**) Chapter 8 Rhizoremediation of Polyaromatic Hydrocarbons (PAHs): A Task Force of Plants and Microbes. Pages 193-211. Phyto and Rhizo Remediation, Microorganisms for Sustainability Volume 9, Springer Nature Singapore, ISBN : 978-981-32-9663-3 https://doi.org/10.1007/978-981-32-9664-0_8

Conference Proceeding /Abstract/Poster/Oral Presentation:

1. Hafeez A, Singh M, **Gupta MK** (2025) "Uncovering BCL2 as a potential Biomarker for Pan-Cancer Based on Omics Integrative Biology Approach". Proceedings of Conference on Drug Discovery and Translational Healthcare (DDTH 2025), School of Biochemical Engineering, Indian Institute of Technology (IIT), BHU, Varanasi, India. 2-3 December 2025 (Page no. 88)
2. Singh M, Hafeez A, **Gupta MK** (2025) "AI-Assisted Pan-Genome Guided Multi-Epitotpe Vaccine Design against MPXV Targeting Extracellular Membrane Proteins" Proceedings of Conference on Drug Discovery and Translational Healthcare (DDTH 2025), School of Biochemical Engineering, Indian Institute of Technology (IIT), BHU, Varanasi, India. 2-3 December 2025 (Page no. 101)
3. Hafeez A, Singh M, **Gupta MK** (2025) "Mining Bioactive molecules: high throughput virtual screening driven identification of Drug against the target of SARS-COV-2 and Tuberculosis" 2nd International Conference on wellness (10-12th October 2025) organized by Hind Institute of Medical Sciences, Safedabad, Barabanki, UP, India.
4. Singh M, Hafeez A, **Gupta MK** (2025) "Targeting Enterococcus faecium pathogenesis: Identification of lead molecules against essential proteins" on 10 October, oral presentation, 2nd International Conference on wellness(10-12th October 2025) organized by Hind Institute of Medical Sciences, Safedabad, Barabanki, UP, India.
5. Singh S, Hafeez A, **Gupta MK** (2025) "Deciphering BCL-2 family protein-mediated necroptosis through integrated systems biology and multi-omics analysis approach" on 10 October, won second prize in the scientific poster presentation, 2nd International Conference on wellness (10-12th October 2025) organized by Hind Institute of Medical Sciences, Safedabad, Barabanki, UP, India.
6. Singh V, Singh M, **Gupta MK** (2025) "Multivalent Protein based Vaccine Design Against Lumpy Skin Disease Virus Targeting Antigenic Protein based on Immunoinformatics Approach" on 10 October, scientific poster presentation, 2nd International Conference on wellness (10-12th October 2025) organized by Hind Institute of Medical Sciences, Safedabad, Barabanki, UP, India.
7. Maurya A, Yadav S, Yadav Y, Hafeez A, **Gupta MK** (2025) "Differential gene Expression Analysis for Identification of Molecular Bridge between pyroptosis and Lung Cancer" on 10 October, scientific poster presentation, 2nd International Conference on wellness (10-12th October 2025) organized by Hind Institute of Medical Sciences, Safedabad, Barabanki, UP, India.
8. Hafeez A, Singh M, **Gupta MK** (2024) "Identification of Pathways and Molecular Biomarkers in NSCLC for Cell Death via Non-Apoptotic Pathways". Proceedings of International Conference on Advancements in Diagnostics Technologies (ADT-2024), Motilal Nehru National Institute of Technology, Allahabad, UP, India. 15-17 November 2024 (Page no. 57) ISBN: 978-93-89947-40-3
9. Singh M, Hafeez A, **Gupta MK** (2024) "Multiple-Epitope mRNA-Based Vaccine Design for Monkeypox Virus Targeting Extracellular Membrane Proteins using Immunoinformatics and Reverse Vaccinology Approach". Proceedings of International Conference on Advancements in Diagnostics Technologies (ADT-2024), Motilal Nehru National Institute of Technology, Allahabad, UP, India. 15-17 November 2024 (Page no. 62) ISBN: 978-93-89947-40-3
10. Singh M, Hafeez A, **Gupta MK** (2024) "Multi-epitope protein-based vaccine design for Monkeypox virus (MPXV) targeting membrane-bound proteins using a bioinformatics approach". International Conference on Innovations in Biotechnology for Sustainability (IBS-2024), Jawaharlal Nehru University, New Delhi, India. 23-25 November 2024 (Page no. 141)

11. Kumar S, Kumar R, Singh M, Hafeez A, **Gupta MK** (2024) "Mathematical Modeling for the study of Transmission Dynamics of SARS-CoV-2: A Comparative study". International Conference on Innovations in Biotechnology for Sustainability (IBS-2024), Jawaharlal Nehru University, New Delhi, India. 23-25 November 2024 (Page no. 146)
12. Hafeez A, Singh M, **Gupta MK** (2024) "Identification of pathways and molecular biomarkers in renal cell cancer for cell death via non-apoptotic pathways based on network analysis". International Conference on Innovations in Biotechnology for Sustainability (IBS-2024), Jawaharlal Nehru University, New Delhi, India. 23-25 November 2024 (Page no. 174)
13. **Manish Kumar Gupta** (2023) Oral Presentation on "Multi-omics network-based approach for investigation of key regulators and complexity involved in the deviant pathway" 63rd Annual International Conference of AMI on theme "Microbial Technologies for Sustainable Biosphere" during 2- 4 February, 2023.
14. Agnihotri S, Parihar SS, **Gupta MK**, Lalwani M (2012) "Metabolic Modeling of Autoimmune Skin Disorder Targeting Psoriasis Through Systems Biology Approach" poster presentation, 2nd **International Conference on** Open Source for Computer – Aided Translational medicine from **22nd to 25th February 2012** Organized by Institute of Microbial Technology (CSIR), Chandigarh, India.
15. Naraian R, Goshwami S, Yadav KL, **Gupta MK** (2010) "Color removal of Textiles dyes By Crude Enzyme Extract, From Spent Substrate of Oyster Mushroom *Pleurotus florida* PF05" at 51st annual conference association of microbiologists of India (AMI) **December 14-17, 2010**, "International Symposium on Recent Advances in Cross-Disciplinary Microbiology: Avenue & Challenges & International Workshop on rRNA Sequencing , Phylogeny & Next Generation Genome Sequencing**"** Birla Institute of Technology, Mesra, Ranchi, India, Central University of Jharkhand, Ranchi , India, Birsa Agricultural University, Ranchi India.
16. Singh S, Gupta SK, **Gupta MK**, Seth PK. (2007) "Insilico: Protein Structure Prediction of Mannose binding lectin protein in Convolvulus arvensis Through Homology modeling" in International conference on Bioinformatics 2007(INCOB2007) presented by Asia Pacific Bioinformatics Network. New Delhi, India.
17. Singh S, Gupta SK , **Gupta MK** , Seth PK, (2007) "Phylogenetic analysis of HIV-1 envelope glycoprotein (gp160) in Asian countries". Proceedings of International Conference on Applied Bioengineering (iCAB 07), Satyabhama University, Jeppiaar Nagar, Chennai, India. 5-7 December, 2007 (Page no. 200 -204)

Editor member and Reviewer of Journal:

1. Associate Editor: International Journal of Wellness (http://www.ijw.co.in/editorial_board.php)
2. Reviewer Network Modeling Analysis in Health Informatics and Bioinformatics (Springer)
3. Reviewer Journal of Computational Life Science (Springer)
4. Reviewer Journal of Biomedical informatics (Elsevier)
5. Reviewer Scientific Report (Nature)
6. Reviewer PLOS
7. Reviewer Biomedical Informatics
8. Reviewer International Journal of Biological Macromolecules

Membership of Professional Bodies:

- Life Member: Bioinformatics and Drug Discovery Society, India (BIDDS17-579)
- Life Member: Federation of Asian Biotech Association (FABA) India (No.: 034)
- Life Member: Indian Science Congress Association (Membership No. L16550)
- Life Member: Society for Environmental Sustainability (Membership No. 006)
- Life Member: Association of Microbiologist of India (Membership No. 4778-2018)

Collaboration

University of Allahabad, Prayagraj UP
Maharshi Dayanand University, Rohtak, Haryana
Chhatrapati Shahu Ji Maharaj University, Kanpur
Atmiya University, Rajkot Gujrat
HBTU Kanpur

Supervisor/Mentoring experience:

1. Under Supervision Ph.D. Scholar: 03 (Ongoing)
2. Post-Doctoral Fellow: 01
3. PG students M.Sc.-Bioinformatics Project dissertation work: 60
4. PG Students M.Sc.- Biotechnology Project dissertation work: 34
5. PG Students M.Sc.- Biochemistry Project dissertation work: 03

Workshops / Symposium/Seminar/Conferences participated:

1. National webinar on **"COVID 19: Health Aspects and Lifestyle"** on **27th July, 2020** jointly organized by UIHS, CSJM University, Kanpur and Field Outreach Bureau Ministry of Information & Broadcasting Govt. of India, Banda.
2. National Webinar on **"Self-Reliant Bharat: Problems & Challenges" during 14-15 July 2020** organized by the Innovation Club, IGNTU, Amarkantak in Collaboration of National Institute of Women, Child & Youth Development (NIWCYD) Nagpur
3. Indo-Iranian international webinar **"Evolving Perspectives of COVID-19: Health and Global Landscape"** on **30th May 2020** organized by UIHS, CSJM University Kanpur, India in Association with Swami Vivekanand Cultural Centre, Embassy of India, Tehran Iran.
4. **Session Chair in International Conference** on Bioinformatics and Systems Biology -2018, during October 26th – 28th, 2018 at Indian Institute of Information Technology -Allahabad, UP
5. 16th Annual Conference of Uttar Pradesh Diabetes Association UPDACON 2017 during 14-15 October 2017, Faizabad UP.
6. **"National Seminar on e-Learning and MOOCs in Higher Education"** organised by the Guru Angad Dev Teaching Learning Centre of MHRD under PMMMNMTT and Centre for e-Learning, SGTB Khalsa College, University of Delhi on **29th March 2017.**
7. National Workshop on **"Basic ICT Skills, e-Learning and MOOCs for Educators"** Guru Angad Dev, Teaching Learning Centre, Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, MHRD, Govt. Of India, Sri Guru Tegh Bahadur Khalsa College, University of Delhi, on **25-26 February 2017.**
8. Seminar on "Abhiyaan AIDS Se Bachaw" Organized by University Institute of Paramedical Sciences, CSJM University Kanpur and Swasth Kanpur Pariyojana on **29th November 2011.**
9. Workshop On "Computational Methods in Physical, Geological Modelling and Drug Designing" **29th September to 1st October 2011** Organized by National Cen**tre of Experimental M**ineralogy and Petrology, University of Allahabad & The National Academy of Sciences India**, (Allahabad Chapter), Allahabad.**
10. A national conference on "Scope and Application of Microbes in Agriculture & Environment" **held on 19-21 February 2007 at Institut**e of Biosciences and Biotechnology, CSJM University, Kanpur, India.
11. Workshop on "Medicinal Plants and Environment "Organized by Environmental Protection Society, Gorakhpur, U.P India, held in March 1997.

FDP/Short Term Training/ Refresher Courses

1. Five Days "Continuous Professional Development (CPD) of Faculty for Evidenced-Based Teaching Strategies in STEM" **10th to 14th October 2023** organised by Inter University Centre for Teacher Education, BHU, Varanasi UP India.
2. One week Training programme on **Academic Leadership** during **23-29 April 2019** at VBS Purvanchal University, Jaunpur Under the scheme of PMMMNMTT, MHRD, Govt. of India, by Centre of Academic Leadership and Education Management, AMU Aligarh.
3. Four days Training programme on **Academic Leadership** during **26-29 March 2019** at VBS Purvanchal University, Jaunpur Under the scheme of PMMMNMTT, MHRD, Govt. of India, by Centre of Academic Leadership and Education Management, AMU Aligarh.
4. One-week short term In-house training programme on **"Pedagogy for 21st Century Learners"** organised by National Institute of Technical Teachers' Training and Research, Kolkata, during **04 December 2017 to 08 December 2017** at CSJM University Kanpur.
5. AICTE sponsored One-week QIP - Faculty Development Program on **"Biomedical Data Analytics (BioMeDics - 2017)"** organised by **Indian Institute of Technology, Kharagpur**, Bengal, India during 11 September to **17 September 2017.**
6. One Week Short Term Training Program on **"Wireless Network through ICT"** organised by NITTTR Chandigarh, through Information communication technology at remote centre Department of Computer Application, University Institute of Engineering and Technology, CSJM University, Kanpur during **22 May to 26 May 2017.**
7. **Two-week Faculty Development program** sponsored by Dept. of Science & Technology, Govt of I**n**dia, New Delhi on "**Entrepreneurship Development**" organized by Centre for Industrial and Management Consultants, Kanpur at Institute of Hotel and Tourism Management, CSJM University Kanpur during **28th March 2015 to 10th April 2015.**
8. UGC Sponsored four-week **16th Refresher course** in **Biotechnology** organised during **28 July to 22 August 2014 (**26 Days) at academic college staff, **Jawaharlal Nehru University, New Delhi**.
9. One-week short term courses titled Faculty Development Program on "**Intellectual Property Rights"** organized by Department of Management Studies, **IIT-Delhi**, during **6-10 July 2009** under the sponsorship of Quality Improvement Programme, AICTE, Govt of India.
10. One-week short term courses on **"IPRs for Pharmaceutical Sector and Patent System in India"** conducted by Applied Science, National Institute of Technical Teachers' Training and Research, Chandigarh 26-30 July 2010.
11. Eight Week (2 month) Certificate course in "Office Automation" from Swami Vivekanand Institute of Information Technology, Gorakhpur during 6th May to 6th July, 2002.

Seminar/Conferences /Science Camp/ organized

1. Session Chaired in 2nd International Conference in Wellness, at Hind Institute of Medical Science Lucknow, 10-12 October 2025
2. Organised Two days, 27-28, February 2025, **National Science Day** Celebration as Organizing Secretary funded by VBS Purvanchal University Jaunpur,
3. Organized one day programme on world cancer Day, on 4th February 2025, as organizing secretary funded by VBS Purvanchal University, Jaunpur

4. Organized one day programme of Culture, language, attire, and Food exhibition of India on 26 September 2022 on theme of "Unity in Diversity" as Nodal Officer on the instruction of UP Govt funded by VBS Purvanchal University.
5. Organized one day **IPR Awareness workshop** on **27th May 2022** in collaboration with the Office of the Controller General of Patents, Designs & Trademarks (CGPDTM), Govt. of India under the initiative of the Government's "Azadi ka Amrit Mahotsav" and National Intellectual Property Awareness Mission (NIPAM) as Program Coordinator at Veer Bahadur Singh Purvanchal University, Jaunpur, UP
6. Organized Two Days National Workshop on title "Innovation and Intellectual Property Management in India" during **8-9 October 2021 as Convener** at Veer Bahadur Singh Purvanchal University, Jaunpur, UP
7. Organized a webinar lecture series in Biological Sciences during **15th – 30th June 2020** as Coordinator of Ashok Singhal Institute of Traditional Science and Technology (ASITST**),** Veer Bahadur Singh Purvanchal University, Jaunpur, UP India
8. Organized Two Days National Workshop on title "Innovation and Intellectual Property Management in India" during **22-23 May 2020 as Convener** at Veer Bahadur Singh Purvanchal University, Jaunpur, UP
9. Worked as **Program Coordinator, INSPIRE Science Camp-2020** at Veer Bahadur Singh Purvanchal University Jaunpur, UP during 27-31 January 2020 sponsored by DST, Govt. of India.
10. Worked as **Convener** of Souvenir & Abstract Book Committee in **"FAC – 2017" International Conference on Fight against cancer,** held at Chhatrapati Shahu Ji Maharaj University, Kanpur, UP on **5-7 October 2017**.
11. Worked as member of the organizing committee of the Symposium "Trends in Biosciences: Recent Developments and Future Prospects' (TRENDSBIO -2017) held on **19th August 2017** at Institute of Biosciences and Biotechnology, CSJM University, Kanpur.
12. Organised a seminar as **Convener** entitled **"Many Dimensions of Indian Atomic Energy Programme"** and Exhibition on **"BARC Technologies"** in association with **Bhabha Atomic Research Centre, Mumbai** on **25th February 2015**, at University Institute of Engineering and Technology, Chhatrapati Shahu Ji Maharaj University, Kanpur, UP.
13. Worked as **Convener** of Souvenir & Abstract Book Committee in **"Wellness Con – 2014" National Conference on Wellness,** held at Chhatrapati Shahu Ji Maharaj University, Kanpur, UP on 14th & 15th November 2014.
14. Organised a Seminar entitled **"Sustainable Science and Technology for Society"** as **Convener** on National Education Day, **11th November 2014**, at University Institute of Engineering and Technology, Chhatrapati Shahu Ji Maharaj University, Kanpur, UP.
15. Worked as Executive committee member **2nd National conference** of Society for promotion of Libraries on "Libraries Towards Digital Paradigm" **19-20 April 2014** organised by Department of Library and Information Science, Chhatrapati Shahu Ji Maharaj University Kanpur
16. Worked as active of member "**Youth Conclave (Success Mantra) and Job fair"** organised by University Placement Cell on 17-18 Mar 2012, at Chhatrapati Shahu Ji Maharaj University Kanpur.
17. Organised Seminar on **"Recent Trends in Biosciences and Biotechnology"** on National Education Day, 11th November 2011, University Institute of Engineering and Technology, CSJM University, Kanpur as an **Organizing Secretary**.

18. Worked as **Executive member** in the National Workshop on **"Current Trends in Computing and Bioinformatics"** Held on 23 and 24th Feb 2007 jointly organised by Department of Bioinformatics and Computer Science and Engineering at University Institute of Engineering and Technology, CSJM University Kanpur.
19. Organised Seminar on "**Education System in India: Introspection**" to celebrate National Education Day, 11th November 2009 at University Institute of Engineering and Technology, CSJM University Kanpur.

Fellowship/Scholarship/Awards/Recognition:

1. Honoured by Veer Bahadur Singh Purvanchal University, Jaunpur for Research and Development activity by Vice-Chancellor on 12th November 2024.
2. Honoured by Veer Bahadur Singh Purvanchal University, Jaunpur for commendable duties and responsibilities on 15th August 2022.
3. Honoured by Veer Bahadur Singh Purvanchal University, Jaunpur on 26th March 2022 for "TB free Jaunpur" by adopting a TB patient.
4. Honoured by Veer Bahadur Singh Purvanchal University, Jaunpur on Teacher's Day i.e. 5th September 2021 for contribution in Higher Education.
5. Fellowship under scheme Teacher Associateship Research Excellence-SERB, DST (2019-2022)
6. Qualified joint **CSIR-UGC** Junior Research fellowship (**JRF**) in Life Sciences and eligibility for lectureship – National Eligibility Test (**NET**) held on June 2003.
7. Qualified Graduate Aptitude Test in Engineering **(GATE)** in Life Sciences**,** MHRD with 97.42 percentile in 2003.
8. **Fellowship** by Department of Biotechnology, Govt. of India (2001-2003) to support M.Sc.-Biotechnology programme and master thesis project at University of Hyderabad.
9. **Scholarship** by Ministry of Human Resource and Development (2003-2005), Govt. of India to support M.Tech. –Bioinformatics and thesis work.

Invited speakers/Chairperson in Workshop/Seminars/Conferences:

S.No.	Name of the programme Workshop/Seminar/Conference/Session Chaired	Title of Talk/Session	Date	Place
1.	Chairperson Wellness Con-2025, 2nd International Conference on Wellness	Chairperson for Poster Presentation session	10th October 2025	organized by Hind Institute of Medical Sciences, Safedabad, Barabanki, UP, India.
2.	Chaired the Scientific Session at 2nd International Conference on wellness	Cancer! A preventable epidemic? The role of life	11th October 2025	organized by Hind Institute of Medical Sciences, Safedabad, Barabanki, UP, India.
3.	Chairperson of the Scientific Session in Wellness Con-2025, 2nd International Conference on Wellness	(Targeting Citrate transport in bone: A novel approach to enhance skeletal wellness)	12th October, 2025	Hind Institute of Medical Sciences, Safedabad, Barabanki, UP
4.	As a Resource person One Week Short Term Programme on "Bioinformatics and Biological Research" under	Multi-omics data integration and analysis in drug discovery	March, 24-29, 2025 (26 March 2025)	Department of Bioinformatics, UGC Malaviya Mission Teacher Training, Central

	the aegis of UGC-Malaviya Mission Teacher Training Programme (UGC MMTTP) Ministry of Education, Govt of India			University of South Bihar (CUSB), Gaya, Bihar
5.	International Conference on Advancements in Diagnostic Technologies: Global Healthcare Monitoring – 2024 (ADT-2024) (November 15-17, 2024)	Omics and Integrative Biology Based Approach for Investigation of Key Regulators, Drug Targets and Complexity Involved in The Disease Pathway	17 November 2024	Department of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, Prayagraj, UP, India
6.	National Conference on Advanced Biotechnology & Biosystem (NC-ABB 2024)	Integrative Network Biology Approach for Identification of Potential Drug Targets: Thyroid Pathways a Case Study	11 November 2024	Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, UP
7.	Invited talk at Central University of South Bihar, Gaya	Bioinformatics Approach for Multi-omics Data Integration and Analysis	22 December 2023	Department of Bioinformatics, Central University of South Bihar, Gaya, Bihar
8.	63rd Annual *International Conference* of Association of Microbiologist of India (AMI) "Microbial Technologies for Sustainable BIOSPHERE" Microbio Tech-2023,	Multi-omics network-based approach for investigation of key regulators and complexity involved in the deviant pathway	4 February 2023 (February 2-4, 2023)	AMI and Department of Microbiology, Maharshi Dayanand University, Rohtak, Haryana, India
9.	National Conference on Emerging Trends in Biological Sciences (ETBS 2023) January 27-28, 2023	Multi-omics data integration and analysis: An emerging trend in Bioinformatics	28th January 2023	Department of Biochemistry Dr. Rammanohar Lohia Avadh University Ayodhya – 224001
10.	Faculty Development Program "Workshop on Molecular Docking, Virtual Screening and Computational Biology" 28th March to 8th April – 2022	Integrated network-based approach to identify potential drug targets	8th April – 2022	NIPER-Hyderabad, Telangana
11.	International Webinar on "Intellectual Property"	Intellectual Property Rights Policy: Promoting Technological Innovation in India	23rd December, 2020	organized by CSJM University Kanpur, UP
12.	TEQIP-III Sponsored ONE WEEK Faculty Development Program on "Bioinformatics, Big Data and Drug Discovery – Prospects & Challenges"	Role is Systems Biology in Drug Discovery	September 14 -18, 2020, (14 September 2020)	Department of Computer Sc. & Engineering and Biotechnology, G. B. Pant Institute of Engineering and Technology, Pauri-Garhwal, Uttarakhand.
13.	Integrated Workshop on "Publication Ethics and Patenting" and *International* Conference on "Environmental Sustainability: Innovations, Translational Dimensions and Way Forward"	Intellectual Property Right Policy: Roadmap for the future of Innovation in India	10 February 2020	Department of Energy and Environment, School of Environmental Sciences, Babasaheb Bhimrao Ambedkar University (A Central University) Vidya Vihar, Raebareli Road Lucknow-226025, UP, India

14.	*International* Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019)	"Integrative biology approach for investigation of key regulatory molecules involved in metabolic pathways"	18 November 2019	Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur, UP-222003
15.	*International* Conference on "Bioinformatics and Systems Biology" WBSB2018	Chaired a Scientific session	(26 October 2028) 26th -28th October 2018	Indian Institute of Information Technology, Allahabad, UP, India
16.	*International* Conference on Fight Against Cancer, FAC-Con 2017	Chairperson of the scientific session,	5-7 October 2017	University Institute of Health Sciences, Chhatrapati Shahu Ji Maharaj University, Kanpur
17.	*International* Conference on "Nanoscience and Nanotechnology ICNN - 2017"	"Holistic approach from pathways modeling to molecular docking, QSAR and molecular dynamics simulation studies of biological molecules"	23 September 2017 (22-24 Sep 2017)	Department of Physics, Babasaheb Bhimrao Ambedkar University, Lucknow, UP, India
18.	National workshop on "Protein Structure Prediction and Function Analysis"	Structure Prediction Pharmacophore modeling and Molecular Dynamics Simulation Analysis of Biological Molecules: Thyroid Receptor a case Study	04 March17 (March 02 – 04, 2017)	Department of Bioscience and Biotechnology at Banasthali University, under the aegis of Department of Biotechnology, Government of India
19.	National Symposium cum Workshop on "Bioinformatics for Medical Research"	A holistic Approach for Integration of Biological Systems Pathways	20 Jan 2017 (January 20 - 21, 2017)	Biomedical Informatics Centre, PGIMER, Chandigarh
20.	National workshop on "Advances in Bioinformatics and Computer Aided Drug Designing"	Integration of Biological Systems Network for Drug Discovery	February, 21st, 2017	Institute of Advanced Science & Technology, NIMS University Rajasthan, Jaipur
21.	Workshop on "Emerging Trends in Bioinformatics: Big Data Analysis and Drug Discovery"	Systems Biology in perspective of Big Data	23 Dec 2016) December 21-23, 2016	Biotech Park Lucknow, U.P India
22.	National Workshop on "In-Silico Strategies for Disease Pathway Analysis & Biomarker Discovery"	Systems Biology: A holistic Approach for Integration of Biological Systems	30 March 2016 (March 29 – 31, 2016)	Biotech Park Lucknow, U.P India
23.	National Seminar on University Industry Partnership: A March Towards Sustainable Growth"	Invited speaker University Industry Partnership: A March Towards Sustainable Growth"	12 March 2015 (12-13 March 2015)	Centre for Industry Institute Partnership Program, BBA(Central) University, Lucknow - 226025
24.	National Training Programme on "Bioinformatics and System Biology Approaches for Agriculture and Veterinary Applications"	Pathway modeling and simulation analysis through systems biology approach" Thyroid Pathways modeling a case study	14 Sep 2014 (September 13-15, 2014)	Bioinformatics Sub DIC, Department of Molecular Biology & Genetic Engineering, College of Basic Sciences & Humanities, G. B. Pant University of Agriculture & Technology, Pantnagar-263145, Uttarakhand

25.	National Conference on "Biomedical Science and Technology"	दवाओं की खोज के लिए जीव विज्ञानं तंत्र और जैव रासायनिक प्रतिरूपण की भूमिका **(**Role of systems biology and biochemical modelling for drug discovery**)**	(21 Nov 2013) November 21-22 , 2013	CSIR-National Physical Laboratory, New Delhi
26.	National Workshop on "Basic Concepts of Bioinformatics and Bioinformatics Softwares"	Rational designing of non-coding miRNA and siRNA	Feb 9, 2013	National Bioinformatics Infrastructure Facility Centre of DBT, D.G.(P.G.) College, Kanpur, Affiliated to CSJM University Kanpur
27.	National Seminar on "Science for shaping the future of India"	Bioinformatics Opportunity and Challenges	1st Oct 2012 (30 Sep to October 1, 2012)	Dr. Harisingh Gour University (Central University), Sagar, M.P., India organised by Indian Science Congress Association Sagar chapter, Sagar
28.	National Workshop "Drug Discovery, Design Methods & Applications"	"Drug Discovery, Design Methods & Applications"	September 11-13, 2012	Biotech Park, Lucknow, U.P. India
29.	National Workshop on "Chemoinformatics and Computational Drug Design"	Structural Analysis of Non coding RNA for gene silencing	28 Feb 2012 (February 27 – 29, 2012)	Biotech Park Lucknow, U.P India
30.	National Workshop on "Recent Advances in Structure-based Rational Drug Designing"	Role of Systems Biology for Drug Discovery	October 12 – 14, 2011	Biotech Park, Lucknow, U.P. India
31.	National Workshop on "Bioinformatics: Tools in Sequencing & Drug Targeting"	Omics to Drug Discovery through Systems Biology	5 Oct 2011 (October 3-5, 2011)	National Bioinformatics Infrastructure Facility Centre of DBT, D.G.(P.G.) College, Kanpur, Affiliated to CSJM University Kanpur
32.	National Workshop on "Bioinformatics: In-Silico aspects of Drug Designing	Systems Biology for Drug Discovery	24 June 2011 (June 23-25, 2011)	Biotech Park, Lucknow, U.P. India
33.	National Workshop on "Structural Biology and Bioinformatics in Drug Design"	Structural Analysis of Secondary Structure Prediction of RNA involved in Gene Silencing	8 October 2010 (October 6 – 8, 2010)	Biotech Park Lucknow, U.P India
34.	National Workshop on "Bioinformatics and Molecular Modeling in Drug Design"	In silico Secondary Structure Prediction and Analysis of miRNA in Virus for RNA interference	23 June 2010 (June 23 – 25, 2010)	Biotech Park Lucknow, U.P India
35.	National Workshop on "Drug Design Approaches: Molecular Modeling, Computational Chemistry and RNAi applications"	Rnomics: Rational Designing of non-coding RNA	24 Feb 2010 (February 23-25, 2010)	Biotech Park Lucknow, U.P India
36.	National Workshop on "Role of Chemoinformatics, Pharmacoinformatics & Bioinformatics in Rational Drug Designing"	Role of Bioinformatics for Rational Designing of siRNA	8 Oct 2009 (October 8-10, 2009)	Biotech Park, Lucknow, U.P India
37.	National Workshop on "Bioinformatics: Application and Current Approaches"	Role of Systems Biology in Drug Discovery	11 June 2009 (June 10-12, 2009)	Biotech Park, Lucknow, U.P India
38.	National Workshop on "Bioinformatics and its Application in RNAi"	Study of miRNA gene network through systems biology	17 Feb 2009 (February 17-19,2009)	Biotech Park, Lucknow, U.P India

39.	Training program on "Introduction to bioinformatics with hands on internet browsing and data searching"	Structural database and molecular visualization of Protein through biological tools.	January 9-10, 2009	N.D University of Agriculture & Technology, Kumarganj, Faizabad, U.P., India
40.	National Workshop on "Bioinformatics in Molecular Modeling, Data Analysis and System Biology"	Systems Biology: From "omics" to Drug Discovery	9 Aug 2008 (August 8-9, 2008)	Biotech Park, Lucknow, U.P India
41.	National Workshop on "Computational Tools and Databases for Genomics & Proteomics"	Phylogenetic Analysis: Method and Application in Bioinformatics	May 27-29,2008	Biotech Park, Lucknow, U.P India
42.	National Workshop on "Principle and Applications of Bioinformatics in Biotechnology"	"Principle and Applications of Bioinformatics in Biotechnology"	December 10-11, 2007	Biotech Park, Lucknow, U.P India
43.	National Workshop on "Bioinformatics Applications in Genomics and Proteomics"	System Biology- A Bioinformatics Approach for biological system Network	September 13 -15, 2007	Biotech Park, Lucknow, U.P India
44.	National Workshop on "Structural Bioinformatics"	RNA Structure Prediction and Visualization	9 June 2007 (June 8-9, 2007)0	Biotech Park, Lucknow, U.P India

Teaching and Research Experience: 20+ Years

1. 23rd December 2019 to till date: Associate Professor, Department of Biotechnology, Veer Bahadur Singh Purvanchal University, Jaunpur, UP
2. 30th May 2018 to 22nd December 2019: Assistant Professor, Department of Biotechnology, Veer Bahadur Singh Purvanchal University, Jaunpur, UP
3. 6th August 2005 to 29th May 2018: Assistant Professor, Department of Bioinformatics, UIET, CSJM University, Kanpur

Research Experience: 20 Years

Supervisor: 04 Ph.D. (Ongoing), 01 PDF (Completed), 97 (PG dissertation Awarded)

Teaching Experience: UG: 10 Years **PG:** 20 Years

Pre-Ph.D. Course work, M.Sc. – Biotechnology, M.Sc. - Bioinformatics & Advanced P.G. Diploma in Bioinformatics, M.Sc. - Life Sciences, M.Sc. - Microbiology & M.Sc.- Nutrition Science, B.Tech. - Computer Science and Engineering, Mechanical Engineering, Chemical Engineering, Bachelor in Computer Application, B.Sc. (Hon). Biotechnology/ZBC

Administrative/Other Experiences:

1. Head, Department of Biochemistry, Veer Bahadur Singh Purvanchal University, Jaunpur Since July 2024.
2. Convener, Board of Studies – M.Sc. Food Science and Technology, Veer Bahadur Singh Purvanchal University, Jaunpur (2025-27)
3. Convener, Board of Studies - Department of Biotechnology, Veer Bahadur Singh Purvanchal University, Jaunpur (2024-26)
4. Member, Sport Council of Veer Bahadur Singh Purvanchal University, Jaunpur (2024-2025)
5. Member Academic Council, Veer Bahadur Singh Purvanchal University, Jaunpur (2024-2025)
6. Member, Executive Council, Veer Bahadur Singh Purvanchal University, Jaunpur (2024-2025)

7. Coordinator – Ashok Singhal Institute of Traditional Science and Technology, VBSPU, Jaunpur Since June 2020
8. Convener – Data Processing/Vigilance and Result Declaration Committee 2021
9. Nodal Officer – Intellectual Property Rights Cell, Veer Bahadur Singh Purvanchal University, Jaunpur, UP since 2019
10. Member Secretary – Institutional Ethics Committee, Veer Bahadur Singh Purvanchal University, Jaunpur, UP (2020-2021)
11. Member: Academic Council, Veer Bahadur Singh Purvanchal University, Jaunpur (2019-2022)
12. Worked as Head Incharge – Department of Bioinformatics, UIET, Chhatrapati Shahu Ji Maharaj University Kanpur, UP
13. Worked as Program Officer of National Service Scheme (NSS) Unit - 4th of CSJM University, Kanpur, UP
14. Member Secretary of Institutional Ethics Committee, Chhatrapati Shahu Ji Maharaj University, Kanpur, UP
15. Worked as Centre Observer in JEE- B.Ed.-2017 conducted by Lucknow University, Lucknow
16. Worked as Member of Proctorial Board, Chhatrapati Shahu Ji Maharaj University, Kanpur.
17. In charge - Placement Cell, University Institute of Engineering and Technology, CSJM University, Kanpur during July 2014 – June 2016
18. Worked as Counselling Centre Representative of Joint Entrance Examination - B.Ed.-2012 conducted by DRMLA University, Faizabad, U.P
19. Worked as Centre Observer in JEE- B.Ed.-2012 conducted by DRMLA University, Faizabad
20. Worked as Member of University Placement Cell, CSJM University, Kanpur February- 2012
21. Member of Board of Studies, Department of Bioinformatics, C.S.J.M. University, Kanpur.
22. Worked as Assistant Centre Superintendent in University Entrance Examination conducted by CSJM University, Kanpur in 2011
23. Worked as Centre Observer in JEE- B.Ed.-2011 conducted by MJPR University Bareilly, U.P
24. Worked as Counselling Centre Representative in JEE-B.Ed.-, 2007, 2008, 2010, 2014 conducted by CSJMU University Kanpur, Bheem Rao Ambedkar University, Agra and Lucknow University, Bundelkhand University, U.P., Respectively
25. Worked as Centre Representative in Entrance Examination of JEE-B.Ed.-2010 conducted by Lucknow University, U.P
26. Worked as Internal Centre observer in Combined Pre Medical Test 2010 conducted by CSJM University Kanpur, U.P
27. Worked as CSJM University Representative for exploration of University courses in "Hindustan Education Fair", 16-17 May 2009 in Kanpur.
28. Worked as centre in charge for Conducting MBA/BBA Entrance Examination 2008
29. Worked as Member of Advisory Committee of "TECHMART 2008" a technical event organised by UIET, CSJM University Kanpur
30. Worked as Member of Placement committee, cultural committee, and anti-ragging committee at UIET, CSJM University, Kanpur, India (2008-09, 09-10).
31. Establishment of Bioinformatics Laboratory in 2006 at Department of Bioinformatics, University Institute of Engineering and Technology, CSJM University Kanpur

Supervision of Students

1. Ph.D. Supervision 2023 (Ongoing)

(i). Pragya Patel (Enrollment No

(ii). Atifa Hafeez (Enrollment No PU16/322766)

(iii). Manjusa Singh (Enrollment No PU22/286003)

(iv). Shiv Kumar Enrollment No (PU20/4108)

2. **Purvanchal University Post Doctoral Fellow (Completed) PUPDF**
   Dr. Pramod Kumar Singh (Placed In Hetero Biopharma Laboratory, Telangana India as Execute in Quality Control)

3. **PG Students (M.Sc.- Biotechnology)**

2024 (Awarded)

1. Molecular docking study of VanA of *Enterococcus faecium* (Sharmistha Chaurasiya)
2. Differential gene expression analysis (Zainab Fatima)
3. Differential gene expression analysis (Suraj Mishra)

2023 (Awarded)

4. Differential gene expression of cell death by non-apoptotic pathways via necrosis (Ishwari Sahu)
5. Lumpy skin disease virus (Anchal Maurya)

2021 (Awarded)

6. Pathway enrichment analysis of proteins involved in non-apoptotic pathways (Mrs. Atifa Hafeez)
7. In silico study of potential drug with targets for repurposing against SARS-corona Virus 2019 (Mrs Vishkha Singh)

2020 (Awarded)

8. Protein- Protein interaction of p53 protein involved in disease pathways (Mr. Manoj Kumar)

PG Students (M.Sc.- Bioinformatics)

2017 (Awarded)

9. Pathway Modelling network analysis of Diabetes Type 2 (Ms. Pratibha Diwedi)
10. Pathway Modelling analysis of Lung cancer (Ms. Anjali Katiyar)
11. Pathway Modelling analysis of Asthma (Ms. Simmi Zakkaurrab)

2015 (Awarded)

12. Metabolic pathways modelling of cationic antimicrobial peptides (Aishwarya Tiwari)

2013 (Awarded)

13. Protein Modelling, docking and molecular dynamics simulation of HLA-DRβ3 (**Sanjay Kumar**)
14. Docking study of simulators for stem cell proliferation (**Shubhra Dubey)**

2012 (Awarded)

15. Metabolic Modeling and Topological Analysis of Hypothalamus Pituitary Thyroid axis **(Rohit Shukla)**

16. Biochemical and Homology Modeling of HLADRB3 through Systems Biology Approach
(Shivangi Singh Parihar)
17. Docking studies of Inhibitors for Thyroid Hormone Receptors **(Shikha Agnihotri)**
18. Computational Analysis of hormones Related to Thyroid Function **(Namrata Nigam)**
19. A novel proposed algorithm for prediction of immunostimulatory RNA **(Durgesh Upadhay)**
20. Database Development for Human Hormones **(Swati Srivastva)**
21. In Silico vaccine Designing for Autoimmune thyroid disorder **(Krati Srivastava)**
22. Biological Network analysis of Homo Sapiens miRNA through Systems Biology approach **(Swati Srivastva)**
23. Computational modelling and simulation analysis for thyroid cancer progression pathways **(Chandramani)**

2011(Awarded)

24. Biochemical modeling and Simulation Analysis for Thyroid Disorder **(Anupam Chakraborty)**
25. InSilico Vaccine designing for autoimmune Hyperthyroidism **(Anupama Singh)**
26. Phylogenetic Analysis of Thyroid Stimulating Hormone receptor and Autoantibody **(Apoorv Tiwari)**
27. High throughput Docking study for Thyroid Disorder **(Preetilekha Bharti)**
28. Homology Modeling and Docking analysis for New Delhi Metallo Beta Lactomase 1 protein **(Shakti Kumar)**

2010 (Awarded)

29. Virtual screening and docking analysis for thyroid stimulating hormones receptor **(Anand Katiyar)**
30. Virtual screening and docking analysis with Autoantibody for thyroid disorder **(Neetesh)**
31. Biochemical Modeling and Thyroid Simulation Analysis for Thyroid Disorder **(Neha Rajora)**
32. Ligand based drug designing for Thyroid disease **(Hina Khan)**

2009 (Awarded)

33. Computational Analysis of Toll Like Receptor in Human and Their Interaction With isRNA **(Aditi Gupta)**
34. Database development of diseases due to protein misfolding in *Homo sapiens* **(Deepak Singh)**
35. Insilico modelling of metabolic pathway of Autoimmune skin disease targeting Psoriasis through System biology Approach **(Manisha Lalwani)**
36. miRNA –mRNA interaction network of KSHV and *Homo sapiens* for identification of miRNA target bases on Systems Biology Approach **(Meenakshi Verma)**
37. Computational analysis of SNP in 10 Kb region of Human Chromosomes 1 **(Pragya Chaturvedi)**
38. Computational designing of siRNA for Chikungunya virus **(Sukhdeep Kaur)**

39. Computational modeling of the interaction of metabolites in *Homo sapiens* for non-communicable disease targeting breast cancer **(Swati Shukla)**
40. Phylogenetic analysis of mammal's miRNA and protein involved in translation repression **(Upendra Singh)**
41. Construction of metabolic pathway of autoimmune thyroid disease through metabolic modelling **(Varsha Srivastva)**
42. Ligand based drug designing for thyroid stimulating hormone receptor of *Homo sapiens* **(Yashwant Vishwakarma)**

2008 (Awarded)

43. On-siRNA: A Tool For Designing Effective siRNA **(Abhishek Shukla)**
44. Comparative Genome Analysis of *E.coli* k12 and *E coli* O157:H7 Using Biological Tools **(Abdul Lateef)**
45. Functional Genomic Approach to Predict The Gene Of *C. elegans* **(Anurag Kumar Jaiswal)**
46. Identification of miRNA Gene Interaction Network In Viruses Through System Biology Approach **(Ashutosh Pathak)**
47. Phylogenetic Analysis of Proteins Involved in Gene Silencing **(Gyandeep Yadav)**
48. Identification and Prediction Of miRNA In Viruses Using Artificial Neural Networks **(Kavita Agarwal)**
49. Database on retrovirus information resource **(Sakshi Issar)**
50. Database of Infectious Proteins of Micro-Organism for Human **(Sanjay Kumar Singh)**
51. Database of Immunological Factor and Structure Resource **(Devendar Singh Bhadauria)**
52. Structure Prediction and Phylogenetic Analysis of E2 Glycoprotein of Hepatitis C Virus of Indian Isolate for the development of an effective vaccine **(Kritika)**

2007 (Awarded)

53. In- Silico design of siRNA for Chikungunya virus **(Rasika Thaker)**
54. Computational Analysis of HIV -1 Reverse Transcriptase Inhibitors and Homology Modeling of HIV –p1 sequence **(Saurabh Shukla)**
55. Phylogenetic Analysis of Polyprotein of Japanese encephalitis virus in Asian country **(Chandan Kumar)**
56. Phylogenetic Analysis of Den-2 protein of Dengue virus **(Rajeev Rav)**
57. Comparative Analysis of Human & Mouse Chromosome-7 Using Biological Tools **(Priyanka Sachan)**
58. Computational Analysis of Topoisomerase-II Inhibitors **(Sanjeev Kumar)**
59. Computational Identification and Prediction of micro-RNA in Hepatitis D Virus **(Abhishek Gupta)**
60. Rational design of siRNA for Duck Hepatitis B Virus **(Chetna Udainia)**
61. Microarray Data Analysis of Lung Cancer using Principal Component Analysis **(Mohammad Fareed)**
62. Database Development of Coding and Non-Coding RNA of Viruses **(Priyanka Bajpai)**

2006 (Awarded)

63. Computational Analysis of Diauxic shift in Yeast from cDNA Microarray Data **(Ankur Srivastva)**
64. Computational Analysis of "alpha –synuclein" protein through protein drug interaction of Parkinson's disease **(Akansha Srivastva)**
65. Database on protein misfolding disease caused in human body **(Sunil Kumar Gupta)**
66. Phylogenetic analysis of glycoprotein of HIV-1 in Asian countries **(Sarita Singh)**
67. A Biological Database Development for Fishes Using Active Server Page **(Uday Bhan Sharma)**
68. A database Development of Bt Toxins Using Active Server Page **(Deshdeepak Tripathi)**

Dr. Manish Kumar Gupta
22/09/2026