

# Curriculum Vitae

**SHAZIA HAIDER, Ph.D.**

Assistant Professor

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## SUMMARY

- **Assistant Professor**, [2023] at Department of Biosciences, Jamia Millia University, New Delhi.
- **Assistant Professor**, [2019-2023] at Department of Biotechnology, Jaypee Institute of Information Technology (JIIT), Noida, Uttar Pradesh
- **Senior Research Officer (SRO)**, Department of Neurology, AIIMS, New Delhi
- **Assistant Professor**, [2018] at Sharda University in the Department of Biotechnology, Greater Noida, Uttar Pradesh.
- **National Post-Doctoral fellow** [2016] SERB, School of Computational and Integrative Sciences, JNU, New Delhi
- **Ph.D.** [2015] Biotechnology (Bioinformatics), Jamia Millia Islamia, New Delhi, Supervisor: Prof. Mohammad Husain, Co Supervisor: Prof.R.N.K.Bamezai, School of Life Sciences, Jawaharlal Nehru University, New Delhi
- **M.Sc.** [2006] Bioinformatics, Sikkim Manipal University
- **Publication:** Twenty-Four (24) peer reviewed indexed Journals, three (3) peer reviewed indexed Journals communicated.
- **Book:** One (1) VSRD International Journal of Biotechnology and pharmaceutical sciences (e-ISSN: 2278-9197), Proceedings.
- **Research Interests:** Systems Biology, Bioinformatics, Computational Biology

## TEACHING EXPERIENCE

- **Guest Faculty:** Bioinformatics at Department of Computer Science, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, for teaching Bioinformatics to PG students

(January 2016 – June 2016).

- **Assistant Professor** at Sharda University in the Department of Biotechnology, Greater Noida, Uttar Pradesh from 14 August 2017 to 30 May 2018.
- **Assistant Professor** at Department of Biotechnology, Jaypee Institute of Information Technology (JIIT), Noida, Uttar Pradesh from 2<sup>nd</sup> December 2019 to 17<sup>th</sup> April 2023.

## POST DOCTORATE EXPERIENCE

- **Senior Research Officer (SRO), DBT** at Department of Neurology, AIIMS, New Delhi from 1 June 2018 to 1 December 2019.
- **SERB National Post-Doctoral fellow (N-PDF)**, Department of science and technology (DST) from 14 March 2016 to 14 August 2017, under the supervision of **Dr. R.K. Brojen Singh**, School of Computational and Integrative Sciences, JNU, New Delhi.
- **Research Associate**, Indian Council of Medical Research (ICMR) from 14 October 2015 to 14 March 2016, under the supervision of **Dr. R.K. Brojen Singh**, School of Computational and Integrative Sciences, JNU, New Delhi.
- **Research Associate** 2 June - 15 September 2015, under the supervision of **Prof. Rup Lal**, Department of Zoology, University of Delhi, New Delhi.

## TECHNICAL SKILLS

- **Bioinformatics**, specialization in the field of **Systems Biology**: Cytoscape, Network analyzer, Biological network, Signal propagation, Complex regulatory network and cell designer.
- **Genome informatics**: miRNA target prediction (miRanda, TargetScan, RNAhybrid and PICTAR), Novel miRNA prediction, Novel gene prediction.
- **Programming Language**: Perl, R (biostatics and molecular simulation libraries).

## RESEARCH ACHIEVEMENTS

1. **Senior Research Fellowship, ICMR** at Department of Biotechnology, Jamia Millia Islamia, with Prof. Mohammad Husain, 2010-2014.
2. Won the prize in **Cytoscape v3.2 Launch Challenge competition**, Department of Medicine, University of California San Diego (UCSD), USA: 2015.

3. **Research Associate Fellowship, ICMR** at School of computational and Integrative Sciences (SCIS), JNU, with Prof. R.K. Brojen Singh, 2015-2016.
4. **National Post-Doctoral Fellowship (N-PDF), SERB** at School of computational and Integrative Sciences (SCIS), JNU, with Prof. R.K. Brojen Singh, 2016-2017.
5. **Best Oral Presentation in young Scientist Colloquium** in INSCR International Conference (IIC): 2017
6. **Research Associate Fellowship, ICMR** at School of Biotechnology, JNU, 2018 with Prof. Pawan K. Dhar.

## PUBLICATIONS

(Total Number of Publications: 27; Cumulative Impact factor: 80)

1. **Nafis, S.**, Kalaiarasan, P., Brojen Singh, R.K., Husain, M. and Bamezai, R.N.K (2014), “*Apoptosis regulatory protein-protein interaction demonstrates hierarchical scale-free fractal network*”. **Briefings in bioinformatics** (Impact factor: 6.3), Vol: 16.4., page: 675-699 (Online ISSN 1477-4054) PMID: 25256288, <https://doi.org/10.1093/bib/bbu036>.
2. Ali, S., **Nafis, S.**, Kalaiarasan, P., Rai, E., Sharma, S., and Bamezai, R.N. (2015) “*Understanding genetic heterogeneity in type 2 diabetes by delineating physiological phenotypes – SIRT1 and its gene network in impaired insulin secretion*”. **The Review of Diabetic studies**. (Impact factor: 3.2), Vol: 13., page: 17-34 PMID: 27563694 (ISSN 1613-6071), doi: [10.1900/RDS.2016.13.17](https://doi.org/10.1900/RDS.2016.13.17).
3. Vipin Gupta, **Shazia Haider**, Utkarsh Sood, Jack A. Gilbert, Meenakshi Ramjee, Ken Forbes, Yogendra Singh, Bruno S. Lopes & Rup Lal (2016), “*Comparative genomic analysis of novel Acinetobacter symbionts: A combined systems biology and genomics approach*”, **Scientific reports**. (Impact factor: 4.5), Vol: 6, page: 1-12, Article no:29043 PMID: 27378055 (ISSN 2045-2322), DOI: [10.1038/srep29043](https://doi.org/10.1038/srep29043).
4. **Nafis S**, Kalaiarasan Ponnusamy, Mohammad Husain, R. K. Brojen Singh and Rameshwar N. K. Bamezai (2016), “*Identification of key regulators and their controlling mechanism in a combinatorial apoptosis network: a systems biology approach*”, **Molecular Biosystems**. (Impact factor: 2.7), Vol: 12, page: 3357-3369 PMID: 27754508 (ISSN 1742-206X), <https://doi.org/10.1039/C6MB00526H>.
5. Roshan Kumar, Helianthous Verma, **Shazia Haider**, Abhay Bajaj, Utkarsh Sood, Kalaiarasan Ponnusamy, Shekhar Nagar, Mallikarjun N. Shakarad, Ram Krishan Negi, Yogendra Singh, J.P.Khurana, Jack A. Gilbert and Rup Lal (2017). “*Comparative Genomic Analysis Reveals Habitat-Specific Genes and Regulatory Hubs within the Genus Novosphingobium*” **mSystems**, Vol: 2(3), page: e00020- 17, PMID: 28567447(ISSN

- 2379-5077). (Impact factor:5.75), DOI: [10.1128/mSystems.00020-17](https://doi.org/10.1128/mSystems.00020-17).
6. Mustafa Alhaji Isa & Rita Singh Majumdar & **Shazia Haider** (2018). “*In silico docking and molecular dynamics simulation of 3-dehydroquinase synthase (DHQS) from Mycobacterium tuberculosis*” **Journal of Molecular Modeling** (2018) 24:132 PMID: 29752576 (Impact factor: 1.631), volume:24(6):132. ISSN: 0948-5023, doi: 10.1007/s00894-018-3637-4.
  7. Mustafa Alhaji Isa & Rita Singh Majumdar & **Shazia Haider** (2018). “*Molecular modelling and dynamic simulation of UDP-N-acetylglucosamine 1-carboxyvinyltransferase (MurA) from Mycobacterium tuberculosis using in silico approach*”, **Informatics in Medicine Unlocked**, US, Volume 12, 2018, Pages 56-66, ISSN: 1532-0464 ,DOI:[10.1016/j.imu.2018.06.007](https://doi.org/10.1016/j.imu.2018.06.007).(impact factor:2.9)
  8. Mustafa Alhaji Isa & Rita Singh Majumdar & **Shazia Haider** (2019). “*In silico identification of potential inhibitors against shikimate dehydrogenase through virtual screening and toxicity studies for the treatment of tuberculosis*” **International Microbiology**, (ISSN 11396709) PMID: 30810932 Impact factor: 0.796, 2019 Mar;22(1):7-17. doi: 10.1007/s10123-018-0021-2.
  9. **Haider Shazia**, Kalaiarasan Ponnusamy, R. K. Brojen Singh, Anirban Chakraborti, and Rameshwar N. K. Bamezai (2019), “*Hamiltonian energy as an efficient approach to identify the significant key regulators in biological networks*” **Plos One**. (Impact factor: 2.776),14 (8),.eISSN-1932-6203, PMID: 31442253, doi: [10.1371/journal.pone.0221463](https://doi.org/10.1371/journal.pone.0221463).
  10. Shekhar Nagar, Chandni Talwar, **Shazia Haider**, Akshita Puri, Kalaiarasan Ponnusamy, Madhuri Gupta, Utkarsh Sood, Abhay Bajaj, Rup Lal, Roshan Kumar, “*Phylogenetic relationships and potential functional attributes of the genus Parapedobacter: A member of family Sphingobacteriaceae*”, **Frontiers in Microbiology**, section Evolutionary and Genomic Microbiology, Front. Microbiol., 04 September 2020 <https://doi.org/10.3389/fmicb.2020.01725>, (Impact factor:5.640), Vol.11, ISSN: 1664-302X
  11. Inderpal Singh, **Shazia Haider**, Md. Zubair Malik, Kalaiarasan Ponnusamy, Ekta Rai, Swarnkar Sharma (2020), E-letter “ACE2 Homodimerization Affects Binding of SARS-CoV-2 Spike Protein” in response to an article, “*Structural basis for the recognition of SARS-CoV-2 by full-length human ACE2*”, **Science**, (Impact factor: 41.845), Vol. 367, Issue 6485, pp. 1444-1448, DOI: 10.1126/science.abb2762.
  12. Vipin Gupta, **Shazia Haider**, Mansi Verma, Nirjara Singhvi, Kalaiarasan Ponnusamy, Md. Malik, Helianthous Verma, Roshan Kumar, Utkarsh Sood, Princy Hira, Shiva Satija, Yogendra Singh, and Rup Lal “*Comparative Genomics and Integrated Network Approach Unveiled Undirected Phylogeny Patterns, Co-mutational Hotspots, Functional Crosstalk and Regulatory Interactions in SARS-CoV-2*”, **mSystems**, (Impact factor:5.75),

- February 2021, Volume-6(1), (ISSN 2379-5077), doi/10.1128/mSystems.00030-21, PMID: 33622851.
13. Rupesh Kumar, **Shazia Haider** “*Protein network analysis to prioritize key genes in Amyotrophic Lateral Sclerosis risk genes*” *IBRO-Neuroscience*, December, 2021, PMID: 34918006.
  14. Shashikala and Dr. Shazia Haider, “Prevalence of Rare Disease”, *VSRD International Journal of Bio-Technology and Pharmaceutical Sciences*, Special Issue on Environmental and Microbial Biotechnology, ISSN: 2278-9197, July 2022.
  15. Urshila Naithani, **Shazia Haider** and Rachana R. “Stem Cell-Derived 3D Cerebral Organoids: A Potential Model for Alzheimer’s Disease”, *VSRD International Journal of Bio-Technology and Pharmaceutical Sciences*, Special Issue on Biomedical Sciences and Computational Biology, ISSN: 2278-9197, August 2022.
  16. Nandini Bagga, Saloni Mathur, **Shazia Haider**, Harshita Singh and Rachana, “Advances in Cell Separation Using Microfluidic Techniques”, *VSRD International Journal of Bio-Technology and Pharmaceutical Sciences*, Special Issue on Biomedical Sciences and Computational Biology, ISSN: 2278-9197, August 2022.
  17. Rupesh Kumar, Ishsirjan Kaur Chandok, Naz Perween and **Shazia Haider**, “Pathogenic Co-infection is Critical Risk Factors for the Severity of COVID-19”, *VSRD International Journal of Bio-Technology and Pharmaceutical Sciences*, Special Issue on Biomedical Sciences and Computational Biology, ISSN: 2278-9197, August 2022.
  18. Rupesh Kumar, Rachana, **Shazia Haider** and Kalaiarasan Ponnusamy, “Role of Biological Networks to Understand the Diseases”, *VSRD International Journal of Bio-Technology and Pharmaceutical Sciences*, Special Issue on Biomedical Sciences and Computational Biology, ISSN: 2278-9197, August 2022.
  19. Rupesh Kumar and **Shazia Haider**, “The current genetics of Amyotrophic Lateral Sclerosis (ALS): Since 2015”, *VSRD International Journal of Bio-Technology and Pharmaceutical Sciences*, Special Issue on Biomedical Sciences and Computational Biology, ISSN: 2278-9197, August 2022.
  20. Anam Upadhyay, Rupesh Kumar, Rachana and **Shazia Haider**, “Computational Screening of nsSNPs in Human Friedreich Ataxia Protein Frataxin”, *VSRD*

- International Journal of Bio-Technology and Pharmaceutical Sciences, Special Issue on Biomedical Sciences and Computational Biology, ISSN: 2278-9197, August 2022.
21. Shashikala and **Shazia Haider**, “Systems Biology Approach for Muscular Dystrophy”, VSRD International Journal of Bio-Technology and Pharmaceutical Sciences, Special Issue on Biomedical Sciences and Computational Biology, ISSN: 2278-9197, August 2022.
  22. Rupesh Kumar, Manisha Singh, Shalini Mani, Rachana, Md. Malik, Kalaiarasan Ponnusamy and **Shazia Haider**, “Amyotrophic Lateral Sclerosis risk genes and suppressor”, Current Gene Therapy, Bentham Science Publishers, Volume 23, Issue 2, 2023:148-162.doi:10.2174/1566523223666221108113330, PMID:36366843, ISSN (Online): 1875-5631, IF: 4.676.
  23. Akash Tripathi Satsangi, Rupesh Kumar, Saurabh Kumar Jha, Arun Prasad Chopra, **Shazia Haider**, "Computational system biology study on MtrAB in Mycobacterium Tuberculosis", Journal of Applied Biology and Biotechnology, Published: Feb 17, 2023, DOI: 10.7324/JABB.2023.114465, Vol. X(XX), pp. 1-9, 2023 (IF:0.93).
  24. Khushi R. Mittal, Nandini Pharasi, Bhavya Sarna, Manisha Singh, Rachana, **Shazia Haider**, Sachin Kumar Singh, Kamal Dua, Saurabh Kumar Jha, Abhijit Dey, Shreesh Ojha, Shalini Mani, Niraj Kumar Jha; “Nanotechnology-based drug delivery for the treatment of CNS disorders”, Translational Neuroscience, PMID: 36741545, 2022 Dec 31;13(1):527-546. doi: 10.1515/tnsci-2022-0258,ISSN: 2081-3856, (IF:1.264).
  25. Roshan kumar; Shekhar Nagar; **Shazia Haider**; Utkarsh Sood; Kalaiarasan Ponnusamy; Gauri Garg Dhingra; Shailly Anand; Ankita Dua; Mona Singh; Manisha Sengar; Indrakant Kumar Singh; Rup Lal; “Monkeypox virus: phylogenomics, host–pathogen interactome and mutational cascade”, Microbial Genomics, 2023, ISSN: 2057-5858, IF: 4.868
  26. Rupesh Kumar, Maged Mostafa Mahmoud, Hanaa M. Tashkandi, Shafiul Haque, Steve Harakeh, Kalaiarasan Ponnusamy,\* and Shazia Haider,\* “Combinatorial Network of Transcriptional and miRNA Regulation in Colorectal Cancer”, International Journal of Molecular Sciences. 2023, 24(6), 5356; <https://doi.org/10.3390/ijms24065356>, ISSN: 1422-0067, IF: 6.01.
  27. Divya Jindal, Rupesh Kumar, Pranav Pancham, **Shazia Haider**, Vivek Gupta,

Shalini Mani, Manisha Singh, "Molecular docking and network pharmacology interaction analysis of Gingko biloba (EGB761) extract with dual target inhibitory mechanism in Alzheimer's disease" Journal of Alzheimer's Disease.

### **Book Chapters:**

1. Ishsirjan Kaur Chandok, Heena Afreen, Rukhsar Afreen, **Shazia Haider**, Durga Prasad Moharana, Touseef Hussain, Mohd Aamir, V Shanmugam, and Md. Zubair Malik, "Functional Genomics Tools for Studying Microbe-Mediated Stress Tolerance in Plants. santon-mitigation of Plant Abiotic Stress by Microorganism: Applicability and future directions", May 2022, ISBN: 978-0-323-90568-8, In book: Mitigation of Plant Abiotic Stress by Microorganisms, Chapter-9, Pages 175-204, *ScienceDirect, Elsevier*.

### **Book**

1. **VSRD International Journal of Biotechnology and pharmaceutical sciences (e-ISSN: 2278-9197), Proceedings; International Conference on Advances in Biosciences and Biotechnology 2022.** Chief Editor: Prof. Pammi Gauba, Editors: Prof. Rachana and Dr. Shazia Haider.

### **PAPER PRESENTED IN CONFERENCES**

1. Presented a Paper in "International Interdisciplinary Science Conference (I-ISC,2011) on Bioinformatics November 15-17, 2011 at Jamia Millia Islamia, New Delhi.
2. Presented a Paper on the topic "GENE REGULATORY NETWORK IN SPORADIC BREAST CANCER – A PRELIMINARY STUDY", Shazia Nafis, Ponnusamy Kalaiarasan, Mohammad Husain, Rameshwar N K Bamezai, in International Conference on Genes, Genetics & Genomics: Today & Tomorrow- Human Concerns and 37th Annual Conference of Indian Society of Human Genetics on 3 to 5 March 2012 at Punjab University, Chandigarh.
3. Presented a Paper on the topic 'Analysis of Apoptosis regulatory pathway in sporadic breast cancer through Gene Regulatory Network', Shazia Nafis, Ponnusamy Kalaiarasan, Mohammad Husain, Rameshwar N K Bamezai, in European Society of Human Genetics Conference, 8-11 June 2013, Paris, France.
4. Presented a Paper on the topic "Influence of Transcription factors and microRNA on apoptosis protein-protein interaction Network" Shazia Nafis, Ponnusamy Kalaiarasan, Dr.R.K.Brojen,

Rameshwar N K Bamezai, in Indo US Conference and Workshop on Synthetic and System Biology at Jawaharlal Nehru University, November 9-12, 2014.

5. Presented an oral presentation and appreciated with a best oral presentation award at INSCR International Conference (IIC-2017) on role of Microbe-Plant-Animal Interactions in Human Health, held on September 26, at University of Delhi, India.
6. Presented an e-poster on the topic “Computational screening of nsSNPs in human friedreich ataxia protein” during the “MDSICON 2019”, AIIMS, New Delhi from 22- 24 February 2019.
7. Presented a Paper on the topic “Computational screening of non-synonymous SNPs in Amyotrophic Lateral Sclerosis protein - SOD1” Rupesh Kumar, Shazia Haider, in International Conference on Drug Discovery 2022”, BITS Pilani K K Birla Goa campus on 10<sup>th</sup> and 11<sup>th</sup> November 2022.

## CONFERENCES/SEMINARS/WORKSHOPS/WEBINAR ATTENDED

1. Attended an International Conference on Mitochondria Research & Medicine ICMRM, November 12-13, 2010 at Shri Mata Vaishno Devi University, Katra, Jammu.
2. Participated in the 13<sup>th</sup> annual statistical Genetics Course 7-11 July 2014 on the Campus of the University of California, Los Angeles (USA).
3. Participated in Indo-US Bilateral Conferences-cum-**Workshop** Big Data Analysis and Translation in Disease Biology at JNU from January 18-22, 2015.
4. Participated in “Renovating Bacterial Taxonomy with Bioinformatics” Jointly Organized by National Bureau of Agriculturally Important Microorganisms (NBAIM), Mau, Uttar Pradesh & Department of Zoology, University of Delhi, Delhi, 14-15 May, 2015.
5. Participated in “Next Generation Sequencing (NSG) **workshop**, at the CSIR- Central Drug Research Institute, Lucknow, January 14-16, 2017.
6. Participated in “Networks and Pathways course, 22-26 May 2017 at the European Bioinformatics Institute (EMBL-EBI) - Wellcome Genome Campus, Hinxton, Cambridge, CB10 1SD, United Kingdom.
7. Participated in Hands-on-workshops on “Statistical Computing in R”, 17-18 May, 2019 at Jawaharlal Nehru University, New Delhi, India.
8. Participated “International Conference on Advances in Biosciences and Biotechnology (ICABB2020)” on OMICS in Human Health and Disease during 30th Jan to 1st Feb 2020.
9. Participated in Online Faculty Development Program on “Research Advances in Plant & Microbial Biotechnology” organized by Department of Biotechnology, Jaypee Institute of Information Technology, NOIDA from 13-18 July, 2020.



10. Attended the Workshop in the Department of Biotechnology, Jaypee Institute of Information Technology, Sector-62, Noida, Hands-on workshop on "Bioinformatics tools in Research", 17<sup>th</sup>-19<sup>th</sup> September 2020.
11. Participated “International Conference on Advances in Biosciences and Biotechnology (ICABB-2021) at Jaypee Institute of Information Technology, Noida from January 28th to 30th, 2021.
12. Participated in the 2-weeks ‘e-course’, titled “Ergonomics Perspectives-Adding quality to the work-life balance and related injuries in covid-19 Era”, organized by Department of Biotechnology, Jaypee Institute of Information Technology (JIIT), Sector-62, Noida, 8-19 March 2021.
13. Attended the Workshop in the Department of Biotechnology, Jaypee Institute of Information Technology, Sector-62, Noida, Hands-on workshop on "Omics Data Analysis", 16<sup>th</sup>-17<sup>th</sup> April 2021.
14. Attended the One week (online) of Faculty Development Program on FOOD AND AGRICULTURE BIOTECHNOLOGY, 2nd to 7th August, 2021, Department of Biotechnology, Jaypee Institute of Information Technology, Sector-62, Noida.
15. Attended the Indo-Singapore workshop on Cardiovascular Diseases: An Insight to New Advances and their Translational Application, 24th – 29th September, 2021, Department of Biotechnology, Jamia Millia Islamia, New Delhi, India.
16. Attended the EMBL-EBI virtual Webinar on “Approaches for using protein-protein interaction networks for biological discovery”, April 27, 2022, EMBL-EBI, London.
17. Attended workshop on "Environment & Sustainability", June 9, 2022, held under the auspices of Jaypee Institute of Information Technology, Noida and Jaypee University of Information Technology, Waknaghat.
18. One-week Faculty Development Program on “Innovation in Drug Delivery Technologies” July 25th - 30th, 2022, Department of Biotechnology, Jaypee Institute of Information Technology, Sector-62, Noida.

### **Invited Lectures**

1. Given a Talk on the topic “Bioinformatics Skills to analyse COVID-19 pathogenicity” in International E-Conference on “Health and Research in Current Scenario: with Special Emphasis on COVID-19 Virus Genomics and Pathogenicity” July, 17, 2020 at Sri Venkateswara College, University of Delhi, India.
2. Given a Talk on the topic “Bioinformatics Skills to analyze Biological Data” in Department of

Biochemistry, Institute of Home Economics, University of Delhi, an international webinar series on “Bioinformatics: concepts and applications”, September, 18, 2020.

3. Given a talk on” Advances in the research of the SARS-CoV-2 molecular structure and pathogenesis from a systems biology approach”, at 6th International e-Conference Indian Network for Soil Contamination Research (INSCR) 2021 on “Microbes in Sustainable Development” in association with many colleges of Delhi University (Ramjas, SVC, ANDC, Maitreyi College, Gargi, KMC, DDU), CMP College Allahabad and Magadh University in November (15-18), 2021.
4. Given a talk on ”Protein network analysis to prioritize key genes in amyotrophic lateral sclerosis”, at Virtual Event - International Conference and Exhibition on The Future of Pharmaceuticals and Novel Drug Delivery Systems held during March 28-29, 2022, University of Pittsburgh, School of Medicine, USA.
5. Oral Presentation on “Exploring Novel Key Regulators in Major Depressive Disorder” at the “4th Online International Conference on Neurology and Brain Disorders”, April 27-28, 2022, Coalesce Research Group, Western University, Canada.
6. Given a Talk on the topic “Bioinformatics platform for analysing gene expression data”, Virtual Workshop & Hands on Training on “Next Generation Sequencing and its Implications in Agriculture and Human Health, Department of Biotechnology, Jaypee Institute of Information Technology, Noida.
7. Oral Presentation on “Identification of potentially Functional modules and Diagnostic genes related to ALS using Systems biology approach” at the “International conference on Neuroscience, Psychiatry and Biological Psychiatry (ICNPBP-23)”, 11<sup>th</sup> March, 2023, Hyderabad, India.

## Awards

1. Won the third prize in Cytoscape v3.2 Launch Challenge competition under the category: Most aesthetically pleasing network visualization in Cytoscape from Department of Medicine, University of California, and San Diego, USA, 2015
2. Won the best Oral Presentation award in Young Scientist Colloquium INSCR International Conference (IIC-2017) on Role of Microbe-Plant-Animal Interactions in Human Health held in September 26 to 28, 2017 at University of Delhi, India.
3. Travel award from ICMR, New Delhi to present research paper in European Society of Human Genetics Conference, 8-11 June 2013, Paris, France,

4. Travel award from DST, New Delhi to Participate in the 13th annual statistical Genetics Course 7-11 July 2014 on the Campus of the University of California, Los Angeles (USA).
5. Travel award from SERB, DST to Participate in “Networks and Pathways course, 22-26 May 2017 at the European Bioinformatics Institute (EMBL-EBI) - Wellcome Genome Campus, Hinxton, Cambridge, CB10 1SD, United Kingdom.
6. Organized a **workshop** on Hands on to Computational Biology for (Meta) Genomic Analysis at IIC-2017, September 26, at University of Delhi, India.
7. Organized a **workshop** on “Bioinformatics Approches for Data Analysis and Research”, August, 12-14, 2021, at Department of Biotechnology, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, India.
8. Organized an **International conference on advances in biosciences and biotechnology (ICABB-2022)**, Theme: Innovation in Life Sciences and Computational Biology, January, 20-22, 2022, at Department of Biotechnology, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, India.
9. Organized a **2-week Virtual workshop on Next Generation Bioinformatics Approaches in Infection Biology**, April, 4-15, 2022, at Department of Biotechnology, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, India.
10. Organized **JAYPEE BIOTHON 2022** for Department of Biotechnology, Jaypee Institute of Information Technology, Noida, An International Biotech Hackathon, 28th - 29th March, 2022.

## RECOGNITION

1. Received an Award in Engineering Discipline as Young Woman Researcher in Bioinformatics by the BOARD OF TRUSTEES of Venus International Foundation held on 5<sup>th</sup> March, 2022.
2. Received an India's Most Prominent Women Empowerment Award as Young Woman Educationist and Researcher in Bioinformatics by the Merit Awards and Market Research, 8<sup>th</sup> March, 2022.
3. Received a Research Grant of Rs 24,00,000/- with PDC: 03 Years by Life Sciences Research Board (LSRB) of Defense Research & Development Organization (DRDO) for the project entitled “Identification of key regulators and their controlling Mechanism in a combinatorial amyotrophic lateral sclerosis Network: an integrated bioinformatics analysis ” dated: 12<sup>th</sup> August,

2022

## REFEREES

1. Prof. Pawan K. Dhar  
Dean, School of Biotechnology,  
Jawaharlal Nehru University, New Delhi  
email: [pawandhar@mail.jnu.ac.in](mailto:pawandhar@mail.jnu.ac.in)
2. Prof. RNK Bamezai  
Retired Prof and Dean, School of Life Sciences  
Jawaharlal Nehru University, New Delhi  
email: [bamezai@hotmail.com](mailto:bamezai@hotmail.com)
3. Dr. RK Brojen Singh  
Associate Professor, School of Computational and Integrative Sciences  
Jawaharlal Nehru University, New Delhi  
email: [brojen@mail.jnu.ac.in](mailto:brojen@mail.jnu.ac.in)
4. Prof. Anirban Chakraborti  
Professor, School of Computational and Integrative Sciences  
Jawaharlal Nehru University, New Delhi  
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5. Prof. Yogendra Singh  
Lab 112, Department of Zoology  
University of Delhi, Delhi  
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