Dr. Vidya Niranjan, Professor

Dr. Vidya Niranjan, Professor			
Educational Qualification	MSc, PhD		
Experience	Teaching	22 Years	
	Industrial	10 Years	
	Research	31 Years	
Area of Interest	NGS Data Analysis, Structural Bioinformatics and Drug Discovery		
Date of joining RVCE	19-09-2013		
Email ID	vidya.n@rvce.edu.in		

Project Guided:

Number of UG projects guided : 78

Number of PG projects guided : 50

Number of Ph.D guided : 06

Number of Ph.D guiding : 05

MS By Research Guiding: 01

Number of Post DOC mentoring: 01

Publications:

National Journal :10

National Conference : 04

International Journal: 107

International Conference: 19

National Journal:

1. **V Niranjan**, A Malini. Antimicrobial resistance pattern in *Escherichia coli* causing urinary tract infection among inpatients. The Indian journal of medical research. 2014, 139 (6), 945.

2. M.S. Vijayabaskar, **Vidya Niranjan** and Saraswathi Vishveshwara. GraProStr—graphs of protein structures: a tool for constructing the graphs and generating graph parameters for protein structures. The Open Bioinformatics Journal.2011.(5)53‑58.
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9. **Niranjan, V.;** Rajesh, R.; Pandian, J.S.; Prathap, K. Structure of thioredoxin peroxidase 1 protein of filarial parasites. -. PDB ID - 2A5N.
10. **Vidya, N,** Rajesh, R.; Prathap, K. Insilico 3d modeling of gamma-hemolysin of *Staphylococcus aureus* bacteria.- PDB ID – 2ERN.

National Conference:

1. Karishma Kapoor and Vidya Niranjan “Integrated transcriptomic and proteomic analysis to study cells” “Genomics In Health And Diseases” (GHD, 2014), at Central Research Institute of Unani Medicine (CRIUM), A. G. Colony road, Erragadda, Hyderabad, India on August 22nd and 23rd, 2014.
2. Priyanka Premnath, K B Ramesh ,Vidya Niranjan, Mallikarjunaswamy, Puttaiah “Biomarkers for Prognosis and Early Diagnosis of Rheumatic Arthritis.
3. Rheumatic arthritis Disease” National Conference n research challenges in power control communication and instrumentation leading to sustainable technologies (NCPCCI-2015).
4. Varna Prasad and Vidya Niranjan, MatQC- Matlab tool for qualitycontrol of NGS data. 7th National Symposium cum Workshop on"Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" 24th –27th February, 2015 SBCADD’2015.

International Journal:

1. Akshay Uttarkar, Swarna M. Patra & Vidya Niranjan, Targeting the G-quadruplex structure in the hTERT promoter for telomerase activity: in silico screening of phyto-compounds and long timescale replica exchange molecular dynamic simulations, 2024, Molecular Simulation 50 (16): 1465–79. **View article**
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3. Bhat SS, Kulkarni SR, Uttarkar A, Niranjan V. Computational Insights into Papaveroline as an In Silico Drug Candidate for Alzheimer's Disease via Fyn Tyrosine Kinase Inhibition. Molecular Biotechnology. 2024 Jul 14:1-5. **View article**
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12. Yogesh Dashrath Naik, Chuanzhi Zhao, Sonal Channale, Spurthi N. Nayak, Karma L. Bhutia, Ashish Gautam, Rakesh Kumar, Vidya Niranjan, Trushar M. Shah, Richard Mott, Somashekhar Punnuri, Manish K. Pandey, Xingjun Wang, Rajeev K. Varshney & Mahendar Thudi (2024) Bioinformatics for Plant Genetics and Breeding Research. In: Pandey, M.K., Bentley, A., Desmae, H., Roorkiwal, M., Varshney, R.K. (eds) Frontier Technologies for Crop Improvement. Sustainability Sciences in Asia and Africa(). Springer, Singapore. **View article**
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80. Vidya Niranjan, Jayarama Reddy, Suchithra V, Pooja R, Amshumala S. Role of informatics in bioremediation–a biological solution to environmental issues. Vol-6,ICGSTE-2016
81. Pooja R, Prarthana A, Srivindya G, Suchithra V, Sneha S, Amshumala S, Vidya N "Green solution for improving indoor air quality", Biovistas-International Journal of Biological Research - IJBR. Vol-6,ICGSTE-2016
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93. V Uday Kumar Reddy ,RajashreeShettar and VidyaNiranjan De Novo Assembly in Your Own Lab: Virtual Supercomputer Using Volunteer Computing British Journal of Research.
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reference database as an initial platform for approaching systems biology in humans. Genome Research. 2003;13(10):2363-71.

International Conference:

1. Vidya Niranjan and Lavanya C, Enhancement of crop quality and soil health through comprehensive metagenome and Metabolome Profiling at BiotechMicroCon : Shaping the sustainable future, International conference 23rd December 2023.
2. Vidya Niranjan and S Pooja, Insights on neonatal postbiotics and enhancement of nutrimix at BiotechMicroCon : Shaping the sustainable future, International conference 22nd December 2023.
3. Vidya Niranjan, SNP Genotyping and Genome-Wide Association Mapping for economic traits of silkworm, Bombyx mori L at 26th International Sericulture sericulture (ISC) congress, 2022
4. Vidya Niranjan, Computational analysis of Sericin peptides extracted from Bombyx mori (Nistari) cocoons to explore its role as drug delivery peptide at 26th International Sericulture sericulture (ISC) congress, 2022
5. Vidya Niranjan, State machine based framework for Genomic Analysis at International journal of Engineering research and technology, 2021
6. Vidya Niranjan and Akshay uttarkar, Shambhawi, Angha, SARS-CoV2 main protease inhibition by compounds isolated from Sarsaparilla using molecular docking at ICGCP, 2021
7. Vidya Niranjan Alice preethi, Re-profiling of phytocompounds to prospective targets in novel Wnt signalling pathway against Triple Negative Breast Cancer at ICGCP, 2021
8. Vidya Niranjan, Sinsha P S, Development of indian specific mulberry database at ICC NSB, 2021
9. Vidya Niranjan, Lakshmi Bharati, Identification of SNPs in Bombyx mori at ICCNSB, 2021
10. Akhilesh Pandey, Salil Sharma, Shubha Suresh, RaghothamaChaerkady and VidyaNiranjan Plasma Proteome Database HUPO 3rd Annual World Congress, October 25–27, Beijing, China.
11. Shashi Kumar, Naveen Kumar N, Manuj K. S and VidyaNiranjan, Portable Bioinformatics Tools Using Beagle BoneProc. of the Intl. Conf. on Advances In Bio-Informatics,Bio-Technology And Environmental Engineering-ABBE 2014.ISBN: 978-1-63248-009-5 doi: 10.15224/ 978-1-63248-009-5-97.
12. VidyaNiranjan, Archana V Pawar, Manasa D A, Reshma Mane, Sukanya V K, BEADS The Indian Specific Mutation DatabaseProc. of the Intl. Conf. on Advances In Bio-Informatics,Bio-Technology And Environmental Engineering-ABBE 2014.ISBN: 978-1-63248-009-5 doi: 10.15224/ 978-1-63248-009-5-97.
13. Vidya N , ChetanaShetty, Deepa Mohan, MayuriRane, Padmavathi P, Sandhya S, Open Source Drug Discovery For Chikungunya Proc. of the Intl. Conf. on Advances In Bio-Informatics,Bio-Technology And Environmental Engineering-ABBE 2014.ISBN: 978-1-63248-009.
14. Ramakrishnan G. S, Kamath M. M, and Niranjan V. Increasing Microbial Biofuel Production by In-silico Comparative Genomic Studies.IJBBB 2014 Vol.4(5): 386-390 ISSN: 2010-3638 DOI: 10.7763/IJBBB.2014.V4.375.
15. Padmavathi.P,VidyaNiranjan,Amogh,SinduraGopinath, MalavikaG,Nanditha SNP analysis of cancer exomes.GLOBAL CANCER SUMMIT,International Collaborative Conference-2015.
16. Pooja Ramesh and VidyaNiranjan. Identification of peptides and proteins responsible for esophageal cancer using proteogenomic approach in 2nd International Conference on Structural and Functional Genomics 2016, SASTRA University, Thanjavur, Tamil Nadu.
17. SuchithraVenkatesh, Siddharth Kothari, NilanjanDutta and VidyaNiranjan. Functional clustering of human gut microbes using metagenomics data in 2nd International Conference on Structural and Functional Genomics 2016, SASTRA University, Thanjavur, Tamil Nadu.

18. AkshathaPrasanna, Sanjay Deshpande and VidyaNiranjan. NGS based analysis of *Streptococcus pyogenes* whole genome data to determine SNPs causing pathogenicity over evolution in 2nd International Conference on Structural and Functional Genomics 2016, SASTRA University, Thanjavur, Tamil Nadu.
19. Lakshmi T V, K.B Ramesh, Vidya Niranjan, Monica N, Aishwarya J Shetty, Aishwarya Rao. Design of a state-machine based genomic simulator and development of a genomic analysis algorithm and prediction system to predict the occurrence of Rheumatic Arthritis (RA) disease. C-CUBE 2017: IEEE International Conference on Circuits, Controls and Communication. 2017, ISBN: 978-1-5386-0615-5.

FDP/Workshops/ Seminars/ Symposium attended:

1. Organized Science and Power workshop, March 2023
2. Inauguration of RV-MERCK Certification Program on 9th June 2023 at BT seminar hall , RVCE
3. Purification Summit by Merck, 14th July 2023
4. Quantum Realm by Amazon AWS, 27th July 2023
5. Integration of Bioinformatics into Biology Curriculum (IISc), 20th July 2023
6. AI's Role in Indian Higher Education, August 7th, 2023
7. Invited talk on "Bioinformatics: An inherit life life for Biology" at Dayanand Sagar university, 5th May 2023
8. Invited talk on "Significance of Acquiring Research Skills" at ISE Seminar Hall, RVCE, 21st july 2023
9. The power of sharing detailed methods: credit, preservation, and reproducibility - Nov, 2023
10. 1st Open Seminar by PhD Student, Lakshmi Bharathi, April 2023
11. 1st Open Seminar by PhD Student, Sinsha V, April 2023
12. 2nd Open Seminar by PhD Student, Lakshmi Bharathi, 17th May 2023
13. 2nd Open Seminar by PhD Student, Sinsha V, 17th May 2023
14. PhD Defence of Thesis by Pooja Ramesh, 18th May 2023
15. Three days hands on Training on "GC-MS and HPLC", 23rd -25th March 2022
16. 2-day cloud-based hands-on Workshop on "Computational Structure-based Screening and Explicit Molecular Dynamics" - 18-04-2022, 19-04-2022
17. Inauguration of Indian Plastics Institute (IPI)–RVCE Student Chapter at R V College of Engineering At BT Seminar hall, 12-4-2022
18. Artificial Intelligence and Machine Learning in Applied Biotechnology (AIMLBIO) Conference, 8th to 10th of December, 2022
19. Applications of Bioinformatics in Horticulture, IIHR, 25th January
20. Role of Bioinformatics in Pharmaceuticals - What RVCE can proffer, Reckitt Benckiser Health Limited, Motavale, New Jersey, USA - 18-02-2022
21. QTL and linkage mapping in Mulberry, Central Silk Board, Bangalore - 19.05.2022
22. Role of Bioinformatics to assist Biotechnology Industry, San Diego Convention Centre, San Diego, USA - 13th of July, 2022
23. Decision support system using pattern recognition as an application of Machine learning for early diagnosis of genetic disease, Sir M.Visvesvaraya Institute of Technology , Bangalore - 01/07/2022
24. Whole genome analysis of *Mycobacterium tuberculosis* isolates to find signature mutation patterns in drug resistance, Genomics for Clinicians, Central Research Laboratory, KIMS, Bangalore - 26th of September 2022
25. AI/ML in Cancer Genomics & Personalized Medicine, Pondicherry University - 28-10-2022

26. Faculty Development Program on “Leadership and Excellence” by IES MANAGEMENT COLLEGE AND RESEARCH CENTRE (IES-MCRC) - 21-2-2022 to 25-2-2022
27. International Conference on Medical, Biological and Pharmaceutical Sciences (ICMBPS) Houston, United States of America - 23-02-2022 to 24-02-2022
28. BIO USA 2022, Sandiego Convention Centre, San Diego, California, USA - 12th of June 2022 to 15th June 2022
29. Crystallization and NMR studies on natural compounds, Center of Advanced Study in Crystallography & Biophysics, University of Madras Guindy Campus, Chennai - 600 025, INDIA - 29th and 30th July 2022
30. One-day workshop on Computational Material Modeling and Simulation, Hotel Royal Orchid, Bengaluru - 19th Oct 2022
31. Honorary Rosalind Member at London Journals Press (Membership ID: VB02859).
32. External expert member in Technical Advisory Research Group (TARG) at Bangalore Bioinnovation Center .
33. Guest faculty at Manipal institute of Regenerative studies (MAHE) on Biostatistics and Bioinformatics.
34. ATAL-FDP on “Cancer genomics in Healthcare system” from 15th to 21st Nov, 2021.
35. ATAL-FDP on “Leadership & Excellence Life Skill Management” from 21th to 26th Feb, 2021.
36. Member of Board of studies at Department of Biotechnology at Dayanand Sagar College of Engineering.
37. Member of Board of studies at Department of Biotechnology at NMKRV.
38. Invited as a member of Technical Program Committee at International Conference on Biomedical Informatics and Health Informatics (BIHI2021).

Interaction with outside world:

Industry connect with

- Reckitt benckiser (USA) Health LLC
- Reckitt benckiser India Pvt Ltd
- Reckitt benckiser Health (UK)

1. Collaboration with Amit Saxena, CDAC, Pune on National Quantum Mission
2. Collaboration with SecqAI, UK in Quantum Computing
3. Member of C-CAMP cohort InDx program, Bangalore
4. Research collaboration with Prayoga Education Research Institute, Bangalore
5. MOU with Mediomix
6. Collaboration with MERCK on various R&D projects related to pharma manufacturing.
7. Collaboration with Hindustan Unilever on R&D projects.
8. Material Transfer Agreement for small molecules in sustainable agriculture with BASF
9. Facilitated on the eve of Inauguration of RV-MERCK Certification Program on 9th June 2023 at RVCE
10. Jury for Elevate 2023, Karnataka Startup Cell, Department of Electronics, IT & Bt, Govt. of Karnataka.
11. Invited Jury member at MSME IDEA HACKATHON 3.0, hosted by Bangalore Bioinnovation Centre.
12. Life time member in Elevate Women Acceleration Programme, Bangalore Bioinnovation Centre
13. Research project approved from ICMR on COVID-19 for Rs 7,20,341/-

14. Funding support from Bangalore Bioinnovation centre of Rs 7.50 lakhs to conduct a conference titled" Healthcare using Artificial Intelligence and Machine Learning
15. Consultancy with Symmetric Systems with a fees of Rs 28,000/-
16. Part of a delegation from GOK to attend BIO USA 2022 sponsored from Bangalore Bioinnovation for ~ 4.0 lakhs
17. MOU with Intergene Biosciences Pvt Ltd on 28th August 2021 for Research, Training and Internship.
18. MOU with Xome Lifesciences on 31st August 2021 for Research, Training, IP and publications.
19. Co-editor for the journal 'Frontiers in Big Data' with the topic focusing on ' Decoding Genome Sequencing Using AI and ML'.
20. Short term Fellowship at Wellcome Trust SANGER INSTITUTE, UK. (Click Here)...
21. Conference on Public Health & Epidemic Diseases 2018, Dallas, USA. (Click Here)...
22. Collaboration with Prabha Hegde working in 3M Pvt Ltd for paper publication and research work.
23. MOU- with Satva Healthcare System Pvt Ltd, Bangalore.
24. Interaction related to research work on prebiotics with Dr A K Samantha working in National Institute of Animal Nutrition and Physiology Bangalore.

Funded Projects and Collaborations:

In-House Projects:

Honors and Awards

1. Bioinformatics Scientist Award 2024 by Bangalore Bio-Innovation Centre (BBC)
2. Women Leaders in Automation & Data Science Award 2024 by Centre for Industry 4.0 LAB.
3. Awarded excellent performance and dedication during the PRiSM cycle for the year 2022-23.
4. Awarded excellent performance and dedication during the PRiSM cycle for the year 2021-22.
5. "Best researcher Award" at ISTE Chapter at RVCE 2018.
6. "Star Achiever Award" by Accenture India.
7. "Women of the year, 2019" by Lion's Club International.

Books/ Book Chapters Published:

1. Niranjan, V., Chandramouli, L., SureshKumar, P., & Kumar, J. (2024). Recent Advancement on In-Silico Tools for Whole Transcriptome Analysis.
2. Vidya Niranjan, Pooja Sureshkumar, Likitha Shankara, Gulab Khedkar and Jitendra Kumar (2024) Insights on Mechanism of Plant Related Bacteria Producing Phytohormones, New Insights Into Phytohormones, Intechopen. View article
3. Yogesh Dashrath Naik, Chuanzhi Zhao, Sonal Channale, Spurthi N. Nayak, Karma L. Bhutia, Ashish Gautam, Rakesh Kumar, Vidya Niranjan, Trushar M. Shah, Richard Mott, Somashekhar Punnuri, Manish K. Pandey, Xingjun Wang, Rajeev K. Varshney & Mahendar Thudi (2024) Bioinformatics for Plant Genetics and Breeding Research. In: Pandey, M.K.,
4. Bentley, A., Desmae, H., Roorkiwal, M., Varshney, R.K. (eds) Frontier Technologies for Crop Improvement. Sustainability Sciences in Asia and Africa(). Springer, Singapore. View article
5. Niranjan V, Setlur AS, Chandrashekar K, Uttarkar A, Skariyachan S. Deciphering the scope of in silico screening of novel natural lead molecules against putative molecular targets of multidrug-resistant bacterial pathogens. Nanotechnology and In Silico Tools 2024 Jan 1 (pp. 269-284). Elsevier. View article
6. Vidya Niranjan, Anagha S Setlur, Chandrashekar K, Sneha Kumkum, Sanjana Dasgupta, Varsha Singh, Vrushali Desai & Jitendra Kumar. Exploring the Synergistic Mechanism of AP2A2

Transcription Factor Inhibition via Molecular Modeling and Simulations as a Novel Computational Approach for Combating Breast Cancer: In Silico Interpretations. Mol Biotechnol (2023). View article
7. Niranjan, V., Setlur, A.S., Skariyachan, S., Chandrashekar, K. (2023). Applications of Microbial Consortia and Microbiome Interactions for Augmenting Sustainable Agrobiology. In: Maheshwari, D.K., Dheeman, S. (eds) Sustainable Agrobiology. Microorganisms for Sustainability, vol 43. Springer, Singapore. https://doi.org/10.1007/978-981-19-9570-5_13
8. Human genome analysis and its impact on medical biotechnology “Medical Biotechnology” By Ankur Publication.
9. NoSQL: Database for storage and retrieval of data in cloud By Taylor and Francis.

Patents:

US20110040545, WO2009098717A

Consultancy:

Kaptronics Private Limited for Bacterial testing and analysis

Dextrose Technologies Pvt Ltd for HPLC analysis and industry certified internship.

Consultancy Projects:

1. Awarded NVIDIA Inception Grant with Intergene Biosciences Pvt Ltd worth 1.21 crores.
2. Awarded IonQ funding on quantum collaboration for 4980 USD.
3. enEclat- Principal Consultant- 6. 5 lakhs
4. Central Research Laboratory- NHS project ”Whole genome sequencing of drug resistant isolates” – Bioinformtaics Consultant-Free lancer
5. OpCenter Consultants LLP - Lead of Industrial Liaison and also as Chief Skill Development Officer.

Click here for more details about the Profile of Dr. Vidya Niranjan, Prof & HOD, Dept. of Biotechnology