

DEPARTMENT OF BIOTECHNOLOGY
FACULTY JOURNAL PUBLICATIONS
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- ❖ **Niranjan, V.**, Uttarkar, A., Kaul, A., Varghese, M. (2023). A Machine Learning-Based Approach Using Multi-omics Data to Predict Metabolic Pathways. In: Selvarajoo, K. (eds) Computational Biology and Machine Learning for Metabolic Engineering and Synthetic Biology. Methods in Molecular Biology, vol 2553. Humana, New York, NY. View article
- ❖ **Vidya Niranjan**, Sanjana Jayaprasad, Akshay Uttarkar, Raviraj Kusanur and Jitendra Kumar, (2023). Design of Novel Coumarin Derivatives as NUDT5 Antagonists That Act by Restricting ATP Synthesis in Breast Cancer Cells, *Molecules*,28(1):89 View article
- ❖ Skariyachan, S., Praveen, P.K.U., Uttarkar, A. and **Niranjan, V.** (2023), Computational design of prospective molecular targets for Burkholderia cepacia complex by molecular docking and dynamic simulation studies. *Proteins*. (Accepted) View article
- ❖ Chandrashekar K, Anagha S Setlur, Adithya Sabhapathi C, Satyam Suresh Raiker, Satyam, Singh and **Vidya Niranjan**, Decision support system and web-application using supervised machine learning algorithms for easy cancer classifications, *Cancer Informatics*, 2023. View article
- ❖ Anagha S Setlur, Chandrashekar K, Ritwija Bhattacharjee, Jitendra Kumar & **Vidya Niranjan** (2023) Deciphering the interaction mechanism of natural actives against larval proteins of Aedes aegypti to identify potential larvicides: a computational biology analysis, *Journal of Biomolecular Structure and Dynamics* View article

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- ❖ Abdu Rehaman Pasha Syed, Rahul Anbalagan, Anagha S. Setlur, Chandrashekar Karunakaran, Jyoti Shetty, Jitendra Kumar & **Vidya Niranjan** (2022), Implementation of ensemble machine learning algorithms on exome datasets for predicting early diagnosis of cancers. *BMC Bioinformatics* 23, 496 View article
- ❖ Garima Pal, Rahul Bakade, Sanjay Deshpande, V. Sureshkumar, Swathi S. Patil, Akashata Dawane, Subham Agarwal, **Vidya Niranjan**, M. K. Prasanna Kumar and Ramu S. Vemanna (2022), Transcriptomic responses under combined bacterial blight and drought stress in rice reveal potential genes to improve multi-stress tolerance. *BMC Plant Biology*, 22:349 View article
- ❖ **Niranjan V**, Uttarkar A, Murali K, Niranjan S, Gopal J, Kumar J. Mycobacterium Time-Series Genome Analysis Identifies AAC2' as a Potential Drug Target with Naloxone Showing Potential Bait Drug Synergism. *Molecules*. 2022; 27(19):6150. View article
- ❖ Gullahalli Swathantraiah, Jagadeesha ; Srinivasa, Sudhanva; Belagal Motatis, Anil Kumar ; Uttarkar, Akshay; Bettaswamygowda, Shwetha ; Bilgumba Thimmaiah, Sridhar ; **Niranjan, Vidya**; Rangappa, Shobith; Subbegowda, Rangappa; Naraganahalli Ramegowda, Thimmegowda, Novel 1,2,5-tri substituted Benzimidazoles Potentiate Apoptosis by Mitochondrial Dysfunction in Panel of Cancer Cells, *ACS Omega*, 2022. (Accepted) View article
- ❖ Anagha S Setlur, Chandrashekar K, Shruti Pandey, Manas Sarkar and **Vidya Niranjan**, Molecular interaction studies of thymol via molecular dynamic simulations and free energy calculations using multi-target approach against Aedes aegypti proteome to decipher its role as mosquito repellent, *Molecular Simulation*, 2022. View article
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- ❖ Akshay Uttarkar & **Vidya Niranjan** (2022) Brefeldin A variant via combinatorial screening acts as an effective antagonist inducing structural modification in EPAC2, *Molecular Simulation*, vol 48:17. View article
- ❖ Vanitha, P., Vijayaraghavareddy, P., Uttarkar, A., Dawane, A., Sujitha, D., Ashwin, V., Babitha, K., **Niranjan, V.**, Sheshshayee, M., Anuradha, C., Makarla, U. and Vemanna, R.S. (2022), Novel small molecules targeting bZIP23 TF improve stomatal conductance and photosynthesis under mild drought stress

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❖ Vidya Niranjana , Anagha Shamsundar Setlur, Chandrashekar Karunakaran, Akshay Uttarkar, Kalavathi Murugan Kumar & Sinosh Skariyachan (2022), Scope of repurposed drugs against the potential targets of the latest variants of SARS-CoV-2. Structural Chemistry, August 2022. View article
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❖ Vanitha Adhinarayanreddy, Preethi Vijayraghavareddy, Ashwin Vargheese, Sujitha Dadi, Akshay Uttarkar, Vidya Niranjana , Anuradha C V, Sheshshayee M. Sreeman, Ramu Vemanna "Simple and Rapid Oxidative Stress Screening Method of Small Molecules for Functional Studies of Transcription Factor", Rice Science, 2022, Vol 29(5): 402-406 View article
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❖ Lavanya C, Aajnaa Upadhyaya, Arpita guha neogi, Vidya Niranjana "Identification Of Novel Regulatory Pathways Across Normal Human Bronchial Epithelial Cell Line (Nhbe) And Peripheral Blood Mononuclear Cell Line (Pbmc) In Covid-19 Patients Using Transcriptome Analysis", Informatics in Medicine Unlocked, 2022, 100979, View article
❖ Haritha Rajaram, N. Harshitha, Shweta A. Ram, Swarna M. Patra, Vidya Niranjana , K.A. Vishnumurthy, "Targeting non-structural proteins and 3CLpro in SARS-CoV-2 virus using phytochemicals from medicinal plants - In-silico approach, 2022, Journal of the Indian Chemical Society, Vol 99 (6), 100488. View article
❖ Vidya Niranjana and Akshay Uttarkar, (2022), "Triple-Negative Breast Cancer and Recent Advancements in Treatment". J Oncol Res Treat 7(2):182. View article
❖ Vidya Niranjana , Akshay Uttarkar and Jitendra Kumar (2022), "Recent Advancement in Drug Delivery for Treatment of Leukemia". J Leuk. 10:298. View article
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❖ Rajeswari, M., Bhoomika, K.N., Ruksar, H. et al. Design and Performance Assessment of Zinc Oxide–Chitosan Nanocomposite Filter for Continuous Removal of Textile Azo Dye. Top Catal (2022). https://doi.org/10.1007/s11244-022-01683-6
❖ Rajeswari M, Deepak S M, Prashanth S, Uchit B, Domestic Water Filter for Treatment of Arsenic Contaminated Water ECS Transactions, 107 (1) 15831-15842 (2022)
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❖ Vidya Niranjana , Amulya Rao, B Janaki, Akshay Uttarkar, Anagha S Setlur, Chandrashekar K & Udayakumar M "Molecular Docking and Interaction Studies of Identified Abscisic Acid Receptors in Oryza sativa: An In-Silico Perspective on Comprehending Stress Tolerance Mechanisms", Current Genomics View article
❖ Padmavathi P, Anagha S Setlur, Chandrashekar K, Vidya Niranjana "A comprehensive in-silico

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❖ Akshatha Prasanna and Vidya Niranjana “MutVis: Automated framework for analysis and visualization of mutational signatures in pathogenic bacterial strains”, <i>Infection, Genetics and Evolution</i> , 2021, 104805, View article
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❖ Ishu Khangwal, Sinosh Skariyachan, Akshay Uttarkar, Aditi G. Muddebihalkar, Vidya Niranjana and Pratyosh Shukla, "Understanding the Xylooligosaccharides Utilization Mechanism of <i>Lactobacillus brevis</i> and <i>Bifidobacterium adolescentis</i> : Proteins Involved and Their Conformational Stabilities for Effectual Binding”, <i>Molecular Biotechnology</i> , 2021, View article
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