

## RESEARCH: PUBLICATIONS

---

### 2022-23

1. Agarwal P, Jobby R, Jha P. Overview of steviol glycosides: Action toward diabetes control. In: Pandita D, Pandita A, Bhanu C (Eds.). *Antidiabetic Potential of Plants in the Era of Omics*. 2022. Apple Academic Press
2. Doijad SP, Gisch N, Frantz R, Kumbhar BV, Falgenhauer J, Imirzalioglu C, Falgenhauer L, Mischnik A, Rupp J, Behnke M, Buhl M, Eisenbeis S, Gastmeier P, Gölz H, Häcker GA, Käding N, Kern WV, Kola A, Kramme E, Peter S, Rohde AM, Seifert H, Tacconelli E, Vehreschild MJGT, Walker SV, Zweigner J, Schwudke D, DZIF R-Net Study Group, Chakraborty T. Resolving colistin resistance and heteroresistance in *Enterobacter* species. *Nature Communications*. 2023. 14: 140. (IF: 17.69)
3. Dumasia NP, Khanna AP, Pethe PS. Retinoic acid signaling is critical for generation of pancreatic progenitors from human embryonic stem cells. *Growth Factors*. 2022. Doi: 10.1080/08977194.2022.2144284 (IF: 2.394)
4. Gocher CP, Pandita N, Choudhury RP, Bhakthavatsalam V. Understanding microstructural heterogeneity in low and high molecular weight fractions of polydisperse polyisobutylene by SEC and NMR for its reactivity. *Journal of Polymer Research*. 2022. 29: 449. (IF: 3.061)
5. Jadhav RW, Wagalgave SM, Kumbhar BV, Khadake RM, Rode AB, Bhosale SV, Bhosale SV. Aminoglycoside antibiotic kanamycin functionalized tetraphenylethylene molecular probe for highly selective detection of bovine serum albumin protein. *Scientific Reports*. 2022. 12: 11526. (IF: 4.996)
6. Jain K, Marwal A, Sharma K, Desai N. Analysis of Physicochemical properties, available nutrients of soil and their correlation with incidence of Telya disease of pomegranate at northern Nasik, Maharashtra. *Defence Life Science Journal*. 2022. 7(3): 232-244. (IF: 0)
7. Jain K, Marwal A, Sharma K, Desai N. Identification of etiological agent of telya disease of pomegranate, its pathogenesis and control using integrated management approach. *Research Journal of Biotechnology*. 2023. 18(1): 51-66. (IF: 0)
8. Marwal A, Jain K, Sharma K, Desai N. Analysis of physicochemical properties, available nutrients of soil and their correlation with incidence of telya disease of pomegranate at northern Nasik, Maharashtra. *Agricultural and Biological Research*. 2022. 38(2): 262–267. (IF: 0)
9. Mirchandani Y, Patravale V, Brijesh S. Hyaluronic acid-coated solid lipid nanoparticles enhance antirheumatic activity and reduce toxicity of methotrexate. *Nanomedicine*. 2022. 17(16). Doi: 10.2217/nnm-2022-0009. (IF: 6.096)

10. Nautiyal R, Tavar D, Suryavanshi U, Singh G, Singh A, Vinu A, Mane GP. Advanced nanomaterials for highly efficient CO<sub>2</sub> photoreduction and photocatalytic hydrogen evolution. *Science and Technology of Advanced Materials*. 2022. Doi: 10.1080/14686996.2022.2149036 (IF: 7.662)
11. Pandey SP, Jha P, Singh PK. An ultrasensitive and selective method for visual detection of heparin in 100 % human plasma. *Talanta*. 2023. 253: 124040 (IF: 6.556)
12. Pawar A, Pandita N. Application of the "Method Operable Design Region" (MODR) approach for the development of a UHPLC method for the assay and purity determination of risperidone in risperidone drug substance and other formulations. *Biomedical Chromatography*. 2022. Doi: 10.1002/bmc.5433 (IF: 1.911)
13. Phanse SK, Sawant S, Singh H, Chandra S. Physico-chemical and antimicrobial efficacy of encapsulated dhavana oil: evaluation of release and stability profile from base matrices. *Molecules* 2022, 27(22): 7679 (IF: 4.927)
14. Ramani S, Samant S, Manohar SM. The story of EGFR: from signaling pathways to a potent anticancer target. *Future Medicinal Chemistry*. 2022. 14(17). Doi: 10.4155/fmc-2021-0343 (IF: 4.767)
15. Sahoo S, Brijesh S. Pharmaceutical applications of coriander in neurodegenerative disorders. In: Ramadan MF (Ed.) *Handbook of Coriander (Coriandrum sativum): Chemistry, Functionality, and Applications*. 1st Edn. CRC Press: Boca Raton. <https://doi.org/10.1201/9781003204626>. eISBN: 9781003204626
16. Sawant S, Dugad J, Parikh D, Srinivasan S, Singh H. oral microbial signatures of tobacco chewers and oral cancer patients in India. *Pathogens*. 2023. 12(1): 7 (IF: 4.531)
17. Shetty, A., Chandra, S. (2022). Engineered Hybrid Nanoparticles for Multimodal Medical Imaging and Diagnosis. In: Chaughule, R.S., Patkar, D.P., Ramanujan, R.V. (eds) *Nanomaterials for Cancer Detection Using Imaging Techniques and Their Clinical Applications*. Springer, Cham. Doi: 10.1007/978-3-031-09636-5\_12
18. Singh S, Chauhan P, Sharma V, Rao A, Kumbhar BV, Prajapati V. Identification of multi-targeting natural antiviral peptides to impede SARS-CoV-2 infection. *Structural Chemistry*, 2022. DOI: 10.1007/s11224-022-02113-9 (IF: 1.795)
19. Sundarrajan P, Bhagtaney L. Biotechnologically engineered transgenic medical plants: Exploration of antidiabetic properties. In: Pandita D, Pandita A, Bhanu C (Eds.). *Antidiabetic Potential of Plants in the Era of Omics*. 2022. Apple Academic Press
20. Tungare K, Shahu R, Zambare V, Agarwal A, Jobby R, Nisar N, Alabdallah NM, Al-Saeed FA, Johri P, Singh S, Saeed M, Jha P. Toxicity mitigation of textile dye reactive blue 4 by hairy roots of

*Helianthus annuus* and testing its effect in *in vivo* model systems. BioMed Research International. 2022. 2022: 1958939 (IF: 3.426)

21. Viridi JK, Pethe P. Soft substrate maintains stemness and pluripotent stem cell-like phenotype of human embryonic stem cells under defined culture conditions. Cytotechnology. 2022. 74: 479–489. (IF: 2.040)