

LIST OF PUBLICATIONS 2021-2022

Book Chapters/ Book Reviews/ Bulletins/ Research Papers/ Monographs/ Booklets

Book Chapters

Darshetkar AM, Tamhankar S, Datar MN and Choudhary RK. 2022. A Conspectus of the Genus *Eriocaulon* L. (Eriocaulaceae) in India: Taxonomic Issues and Conservation Concerns. In: Seethalakshmi KK, Haridasan K, Maya C. Nair and Rekha Vasudevan A. (eds) Conspectus on Realms of Biodiversity. Victorian Botany Alumni Association (VIBA): 199-224.

Ghormade V, Rahi S and Rawal K. 2021. Nanosensors for the detection of plant and human fungal pathogens. In: Satyanarayana T, Deshmukh SK and Deshpande MV (eds.) Progress in Mycology: Biology and Biotechnological Applications. Springer: 263- 288.

Jadon RS, Jadon PS, Bhadauria V, Sharma V, Bharadwaj S, Sharma M, Gajbhiye KR and Gajbhiye V. 2022. Solid-lipid nanoparticles based vehicles for stimuli inspired delivery of bioactives. In: Gajbhiye V, Gajbhiye KR and Hong S (eds.) Stimuli-Responsive Nanocarriers: Recent Advances in Tailor-Made Therapeutics. Academic Press : 265-282.

Kumar P, Salve R, Gajbhiye KR and Gajbhiye V. 2022. An overview of stimuli-responsive nanocarriers: State of the art. In: Gajbhiye V, Gajbhiye KR and Hong S (eds.) Stimuli-Responsive Nanocarriers: Recent Advances in Tailor-Made Therapeutics. Academic Press : 1-27.

Moudgil A, Shende RA, Pawar AT, Gajbhiye KR, Gajbhiye V and Chaudhari BP. 2022. Quantum dots based vehicles for controlled drug release in conjunction with bio-imaging. In: Gajbhiye V, Gajbhiye KR and Hong S (eds.) Stimuli-Responsive Nanocarriers: Recent Advances in Tailor-Made Therapeutics. Academic Press : 197-236.

Poudel I, Annaji M, Arnold RD, Gajbhiye V, Tiwari AK and Babu RJ. 2022. Vesicular nanocarrier based stimuli-responsive drug delivery systems. In: Gajbhiye V, Gajbhiye KR and Hong S (eds.) Stimuli-Responsive Nanocarriers: Recent Advances in Tailor-Made Therapeutics. Academic Press : 61-86.

Rajwade JM, Chikte RC, Singh N and Paknikar KM. 2021. Copper-based nanostructures: Antimicrobial properties against agri-food pathogens. In: Copper Nanostructures: Next-Generation of Agrochemicals for Sustainable Agroecosystems. Elsevier: 477-503.

Rajwade JM, Oak MD and Paknikar KM. 2021. Zinc nanostructure applications in agriculture. In: Zinc Based Nanostructures for Environmental and Agricultural Applications :Nanobiotechnology for Plant Protection. Elsevier: 285-321.

Rajwade JM and Paknikar KM. 2022. Nanotechnology-enabled phytodiagnostics on the brink of farm usage. In: Balestra GM and Fortunati E (eds.) Nanotechnology – based sustainable alternatives for the management of plant diseases. Elsevier: 265-285.

Salve R, Gajbhiye KR, Babu RJ and Gajbhiye V. 2022. Carbon nanomaterial-based stimuli-responsive drug delivery strategies. In: Gajbhiye V, Gajbhiye KR and Hong S (eds.) Stimuli-Responsive Nanocarriers: Recent Advances in Tailor-Made Therapeutics. Academic Press : 367-392.

Salve R, Kumar P, Gajbhiye KR, Babu RJ and Gajbhiye V. 2022. Stimuli-responsive strategies: Role of various molecules/moieties facilitating the design of stimuli-responsive nanocarriers. In: Gajbhiye V, Gajbhiye KR and Hong S (eds.) Stimuli-Responsive Nanocarriers: Recent Advances in Tailor-Made Therapeutics. Academic Press : 29-60.

Salve R, Kumar P, Gajbhiye KR, Shende RA, Chaudhari BP and Gajbhiye V. 2022. Mesoporous silica nanoparticles-based stimuli-triggered drug release systems. In: Gajbhiye V, Gajbhiye KR and Hong S (eds.) Stimuli-Responsive Nanocarriers: Recent Advances in Tailor-Made Therapeutics. Academic Press : 237-264.

Sayed-Pathan N, Jadon RS, Gajbhiye KR and Gajbhiye KR. 2022. Tailored gold nanoparticles for improved control over drug release. In: Gajbhiye V, Gajbhiye KR and Hong S (eds.) Stimuli-Responsive Nanocarriers: Recent Advances in Tailor-Made Therapeutics. Academic Press : 283-318.

Book Review

Ratnaparkhi A. 2021. The Code of Life: Revolutions in Genetics. Current Science, 120(7): 1256. (Impact Factor= 0.725)

Letter to the editor

Mapari S, Gaikwad S, Khare R, Syed M, Doshi P and Behera BC. 2021. Neuroprotective potential of selected lichen compounds on mouse neuroblastoma (N2A) cells. Excli Journal , 20: 491-494. (Impact Factor= 4.068)

Research Papers

Abdul NA, Seepoo AM, Gani T, Sugumar V, Selvam S, Allahbagash B, Kuthoos ANA, Palsamy RK, Paknikar KM, Rajwade JM and Azeez, SSH. 2022. Development and characterization of five novel cell lines from snubnose pompano, *Trachinotus blochii* (Lacepede, 1801), and their application in gene expression and virological studies. Journal of Fish Diseases, 45 (1): 121-139. (Impact Factor= 2.318)

Avchar R, Lanjekar V and Baghela A. 2022. Bioprospecting thermotolerant yeasts from distillery effluent and molasses for high-temperature ethanol production. Journal of Applied Microbiology, 132 (2): 1134-1151. (Impact Factor= 3.066)

Avchar R, Lanjekar V, Dhakephalkar PK, Dagar SS and Baghela A. 2022. Compost as an untapped niche for thermotolerant yeasts capable of high-temperature ethanol production. Letters in Applied Microbiology, 74 (1): 109-121. (Impact Factor= 2.173)

Avchar R, Lanjekar V, Kshirsagar P, Dhakephalkar PK, Dagar SS and Baghela A. 2021. Buffalo rumen harbours diverse thermotolerant yeasts capable of producing second-generation bioethanol from lignocellulosic biomass. Renewable Energy, 173 : 795-807. (Impact Factor= 6.274)

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Bokil SA, Choudhary RK, Tamhankar S and Datar MN. 2021. A novel species of *Ischaemum* (Poaceae, Andropogoneae) from the northern Western Ghats, India, based on morphological and molecular data. *Phytotaxa*, 501 (1):171-180. (Impact Factor= 1.007)

Boonmee S, Wanasinghe DN, Singh SK, Rana S, Singh PN, Maurya DK, Lagashetti AC, Choudhary D, Rajeshkumar KC, Ashtekar N, Lad S...et.al. 2021. Fungal diversity notes 1387-1511: taxonomic and phylogenetic contributions on genera and species of fungal taxa. *Fungal Diversity*, 111 (1): 1-335. (Impact Factor= 15.386)

Borde M, Kshirsagar Y, Jadhav R and Baghela A. 2021. A Rare Stinkhorn Fungus *Itajahya rosea* Attract *Drosophila* by Producing Chemical Attractants. *Mycobiology*, 49 (3): 223-234. (Impact Factor = 1.416)

Borkar VD and Kulkarni KG. 2021. Formalizing the New Designation 'Sitapuri Bryozoan Limestone', in lieu of Conventional Term 'Coralline Limestone', for the Youngest Member of the Bagh Formation (Turonian). *Journal of The Geological Society of India*, 97 (8): 881-886. (Impact Factor= 0.899)

Crous PW, Cowan D, Rajeshkumar KC, Ashtekar N, Fatima S, Lad S... et al. 2021. Fungal Planet description sheets: 1182-1283. *Persoonia*, 46: 313-528. (Impact Factor= 8.227)

Crous PW, Osieck ER, Baghela A, Tiwari S...et al. 2021. Fungal Planet description sheets: 1284-1382. *Persoonia*, 47: 178-374. (Impact Factor= 8.227)

Darshetkar AM, Datar MN, Prabhukumar KM, Kim SY, Tamhankar S and Choudhary RK. 2021. Systematic analysis of the genus *Eriocaulon* L. in India based on molecular and morphological evidence. *Systematics and Biodiversity*, 19(7): 693-723. (Impact Factor= 1.953)

Galande AA, Saijo M, Ghaskadbi SS and Ghaskadbi S. 2021. *Xeroderma pigmentosum* A homolog from Hydra partially complements DNA repair defect in human XPA-deficient cells. *Journal of Biosciences*, 46(2). (Impact Factor= 1.645)

Gusev E, Karthick B, Martynenko N, Shkurina N and Kulikovskiy M. 2021. *Cryptomonas indica* sp. nov. (Cryptophyceae: Cryptomonadales), a new species described from the Western Ghats, India. *Phytotaxa*, 518 (4): 261-270. (Impact Factor= 1.007)

Hai DV, Cuong NT, Choudhary RK, Lin ZL and Deng YF. 2021. *Cosmianthemum melinhense* (Acanthaceae), a new species from the Me Linh Station for Biodiversity in northeastern Vietnam. *Phytotaxa*, 538(2): 124-132. (Impact Factor= 1.007)

Hai DV, Hoan DT, Lin ZL, Deng YF, Choudhary RK and Lee J. 2021. *Rungia gialaiensis* (Acanthaceae), a new species from the Central Highlands of Vietnam. *Phytotaxa*, 500(4): 294-300. (Impact Factor= 1.007)

Hai DV, Hoan DT, Nuraliev MS, Kuznetsov AN, Kuznetsova SP, Choudhary RK and Lee J. 2021. Untangling the taxonomy of *Phlogacanthus pulcherrimus* (Acanthaceae) newly recorded from Vietnam. *Phytotaxa*, 518(1):45-53. (Impact Factor = 1.007)

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Jaybhay SA, Varghese P and Taware, SP. 2021. Influence of Foliar Application of Nutrient on Growth, Yield, Economics, Soil Nutritional Status and Nutrient Uptake of Soybean. *Legume Research*, 44(11): 1322-1327. (Impact Factor= 0.531)

Jejurkar VP, Yashwantrao G, Suryavanshi A, Mone N, Madiwal V, Ware AP, Pingale SS, Satpute S, Rajwade JM and Saha S. 2022. Rationally designed Troger's base decorated bis-carbazoles as twisted solid-state emitting materials and dead bacterial cell imaging. *New Journal of Chemistry*, 46(12):5730-5740. (Impact Factor= 3.288)

Joshi B, Gaur H, Hui SP and Patra, C. 2022. Celsr family genes are dynamically expressed in embryonic and juvenile zebrafish. *Developmental Neurobiology*, 82(2): 192-213. (Impact Factor= 3.935)

Joshi B, Wagh G, Kaur H and Patra C. 2021. Zebrafish Model to Study Angiotensin II-Mediated Pathophysiology. *Biology-Basel*, 10(11). (Impact Factor= 3.796)

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- Kulkarni A, Shetti R, Shigwan BK, Vijayan S and Datar, MN. 2021. What determines vegetation on rock outcrops of the Western Ghats: the macro-environment or lithotype? *Folia Geobotanica*, 56 (2-3): 149-165. (Impact Factor= 1.242)
- Kulkarni A, Roy S, Yogeshwaran M, Shigwan B, Vijayan S, Kshirsagar P, Datar MN and Karthick B. 2022. Vanishing waters: water chemistry of temporary rock pools of the Western Ghats, India. *Water Practice & Technology*, 17(1): 234-245.
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- Lagashetti AC, Singh SK, Dufosse L, Srivastava P and Singh PN. 2022. Antioxidant, Antibacterial and Dyeing Potential of Crude Pigment Extract of *Gonatophragmium triunia* and Its Chemical Characterization. *Molecules*, 27 (2). (Impact Factor= 3.267)
- Mahapatra SS, Navathe S, Mishra VK and Chand R. 2021. Biochemical Profiling of Seedling and Adult Plant and Its Association with Spot Blotch Resistance in Bread Wheat. *Russian Journal Of Plant Physiology*, 68 (6): 1265-1275. (Impact Factor= 1.198)
- Mane S, Pathan E, Tupe S, Deshmukh S, Kale D, Ghormade V, Chaudhari B and Deshpande M. 2022. Isolation and Characterization of Chitosans from Different Fungi with Special Emphasis on Zygomycetous Dimorphic Fungus *Benjaminiella poitrasii*: Evaluation of Its Chitosan Nanoparticles for the Inhibition of Human Pathogenic Fungi. *Biomacromolecules*, 23:808-815. (Impact Factor= 6.092)
- Mattoo BB, Singh AP, Dhingra GS, Singh SK, Rana S and Maurya DK. 2022. Molecular and morphological characterization of a new species of *Gloeophyllum* (Basidiomycota, Agaricomycetes) from India. *Nova Hedwigia*. (Impact Factor= 1.065)
- Maurya S and Choudhary RK. 2021. Bringing *Capparis zeylanica* (Capparaceae) out of chaos: nomenclatural updates and amended description. *Phytotaxa*, 528 (4): 263-268. (Impact Factor= 1.007)
- Maurya S, Datar MN and Choudhary RK. 2021. Lectotypification of four names in the genus *Capparis* (Capparaceae). *Phytotaxa*, 500 (4): 125-132. (Impact Factor= 1.007)
- Mehta N, Patil R and Baghela A. 2021. Differential Physiological Prerequisites and Gene Expression Profiles of Conidial Anastomosis Tube and Germ Tube Formation in *Colletotrichum gloeosporioides*. *Journal of Fungi*, 7 (7). (Impact Factor= 4.621)

More NA, Jadhao NL, Meshram RJ, Tambe P, Salve RA, d, Sabanea JK, Sawant SN, Gajbhiye V and Gajbhiye JM. 2022. Novel 3-fluoro-4-morpholinoaniline derivatives: Synthesis and assessment of anti-cancer activity in breast cancer cells. *Journal of Molecular Structure*, 1253. (Impact Factor= 2.463)

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- Rahim SA, Kodandaramaiah U, Kulkarni A and Barua D. 2021. Striking between-population floral divergences in a habitat specialized plant. *Plos One*, 16 (6). (Impact Factor= 2.74)
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- Sayed-Pathan Nida Irfan , Kumar P, Paknikar KM and Gajbhiye V. 2021. MicroRNAs: A Neoteric Approach to Understand AU2 Pathogenesis, Diagnose, and Treat Myocardial Infarction. *Journal of Cardiovascular Pharmacology*, 78(6):773-781. (Impact Factor= 2.598)
- Sengupta K and Pal S. 2021. A review on microbial diversity and genetic markers involved in methanogenic degradation of hydrocarbons: futuristic prospects of biofuel recovery from contaminated regions. *Environmental Science and Pollution Research*, 28 (30): 40288-40307. (Impact Factor= 3.056)
- Sengupta KK, Hivarkar SS, Palevich N, Chaudhary PP, Dhakephalkar PK and Dagar SS. 2022. Genomic architecture of three newly isolated unclassified *Butyrivibrio* species elucidate their potential role in the rumen ecosystem. *Genomics*, 114(2). (Impact Factor= 6.205)
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- Thacker M and Karthick B. 2022. Response of Diatoms to the Changing Water Quality in the Myristica Swamps of the Western Ghats, India. *Diversity-Basel*, 14 (3). (Impact Factor= 1.402)
- Thakare S, Shaikh A, Bodas D and Gajbhiye V. 2022. Application of dendrimer-based nanosensors in immunodiagnosis. *Colloids and Surfaces B-Biointerfaces*, 209. (Impact Factor= 4.389)

Tiwari S, Baghela A and Libkind D. 2021. *Rhodotorula sampaioana* f.a., sp. nov., a novel red yeast of the order Sporidiobolales isolated from Argentina and India. *Antonie Van Leeuwenhoek International Journal of General and Molecular Microbiology*, 114(8): 1237-1244. (Impact Factor= 1.588)

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