

RESEARCH: PUBLICATIONS

2019-20

1. Dave R, Irani A. Work related musculoskeletal disorders in electrical, telecommunication and instrument mechanics of armed forces. *International Journal of Occupational Safety and Health*. 2020. 10(1): 18–27. (IF:0)
2. Desai D, Pethe P. Inhibition of RING1B alters lineage specificity in human embryonic stem cells. *Cell Biology International*. 2020. 4: 1299-1311. (IF: 2.127)
3. Desai D, Pethe P. Polycomb repressive complex 1: Regulators of neurogenesis from embryonic to adult stage. *Journal of Cellular Physiology*. 2020. 235(5): 4031–4045. (IF: 4.522)
4. Kamble A, Singh H. Different methods of soil DNA extraction. *Bio-101*. 2020. e3521. (IF: 0)
5. Kulkarni L, Sabnis S. Construction of optimal reliability test plans for multi-state coherent systems of type 1. *Communications in Statistics - Theory and Methods*. 2019. 48: 6080–6097. (IF: 0.424)
6. Martin J., Brijesh S. Anti-depressant activity of *Erythrina variegata* bark extract and regulation of monoamine oxidase activities in mice. *Journal of Ethnopharmacology*. 2020. 248: 112280. (IF: 3.69)
7. Mehra C, Gala R, Kakatkar A, Kumar V, Khurana R, Chatterjee S, Kumar NN, Barooah N, Bhasikuttan AC, Mohanty J. Cooperative enhancement of antibacterial activity of sanguinarine drug through p-sulfonatocalix[6]arene functionalized silver nanoparticles. *Chemical Communications*. 2019. 55: 14275. (IF: 6.164)
8. Pawar A, Pandita N. Statistically designed, targeted profile UPLC method development for assay and purity of haloperidol in haloperidol drug substance and haloperidol 1 mg tablets. *Chromatographia*. 2020. 83: 725–737. (IF: 1.596)
9. Raina S, Mungantiwar A, Halde S, Pandita N. High-performance liquid chromatography method applied to investigate mechanism, kinetics, isotherm, and thermodynamics of bile acid adsorption onto bile acid sequestrants. *Drug Development and Industrial Pharmacy*. 2019. 45(9): 1437-1443. (IF: 2.365)
10. Sahoo S., Brijesh S. Anxiolytic activity of *Coriandrum sativum* seeds aqueous extract on chronic restraint stressed mice and effect on brain neurotransmitters. *Journal of Functional Foods*. 2020. 68: 103884. (IF: 3.701)

11. Sakhalkar M, Aduri PK, Lande S, Chandra S. Single step synthesis of novel chloroaluminate ionic liquid for green friedel-crafts alkylation reaction. *Clean Technologies and Environmental Policy*. 2020. 22: 59-71. (IF: 2.277)
12. Shah HD, Saranath D, Pradhan S. Single nucleotide polymorphisms in transcription factor genes associated with susceptibility to oral cancer. *Journal of Cellular Biochemistry*. 2020. 121(2) 1050-1060. (IF: 4.237)
13. Shah MD, Kharkar PS, Sahu NU, Peerzadaa Z, Desai KB. Potassium 2-methoxy-4-vinylphenolate: a novel hit exhibiting quorum-sensing inhibition in *Pseudomonas aeruginosa* via LasIR/RhlIR circuitry. *RSC Advances*. 2019. 9: 40228. (IF: 3.119)
14. Shaikh K, Mungantiwar A, Halde S, Pandita N. Liquid chromatography-tandem mass spectrometry method for determination of rivaroxaban in human plasma and its application to a pharmacokinetic study. *European Journal of Mass Spectrometry*. 2020. 26 (2), 91-105. (IF: 1.175)
15. Singh RN. EGFR-tyrosine kinase mutations in non-small cell lung cancer-based responsiveness to anticancer therapy. *International Journal of Applied Chemical and Biological Sciences*. 2020. 1(4), 1-12. (IF: 0)
16. Sharma MK, Ayalew Y, Pandey A. Orthogonal arrays and designs for partial triallel crosses. *Communications in Statistics - Theory and Methods*. 2020. 49(1). DOI: 10.1080/03610926.2018.1532005 (IF: 0)
17. Thakur S, Storewala P, Basak U, Jalan N, Pethe P. Clocking the circadian genes in human embryonic stem cells. *Stem Cell Investigation*. 2020. 7:9. (IF: 0)
18. Wattamwar T, Mungantiwar A, Halde S, Pandita N. Development of simultaneous determination of empagliflozin and metformin in human plasma using liquid chromatography-mass spectrometry and application to pharmacokinetics. *European Journal of Mass Spectrometry (Chichester)*. 2020. 26(2): 117-130. (IF: 1.175)

2018-19

1. Bharte S, Desai K. Harvesting *Chlorella* species using magnetic iron oxide nanoparticles. 2019. 67(2): 128-133. (IF: 1.147)
2. Bharte S, Desai K. The enhanced lipid productivity of *Chlorella minutissima* and *Chlorella pyrenoidosa* by carbon coupling nitrogen manipulation for biodiesel production. *Environmental Science and Pollution Research*. 2019. 26: 3492–3500. (IF: 3.056)
3. Chhabria SV, Desai KB. Purification and characterisation of alliinase produced by *Cupriavidus necator* and its application for generation of cytotoxic agent: allicin. *Saudi Journal of Biological Sciences*. 2018. 25 (7): 1429-1438. (IF: 2.802)

4. Chikhaliwala P, Rai R, and Chandra S. Simultaneous voltammetric immunodetection of alpha-fetoprotein and glypican-3 using a glassy carbon electrode modified with magnetite-conjugated dendrimers. *Microchimica Acta*. 2019. 186(4): 255. (IF: 5.705)
5. Kamble A, Srinivasan S, Singh H. *In-Silico* bioprospecting: finding better enzymes. *Molecular Biotechnology*. 2019. 61(1): 53-59. (IF: 1.712)
6. Kim IY, Kim S, Jin X, Premkumar S, Chandra G, Lee NS, Mane GP, Hwang SJ, Umapathy S, Vinu A. Ordered mesoporous C3N5 with a combined triazole and triazine framework and its graphene hybrids for the oxygen reduction reaction (ORR). *Angewandte Chemie International Edition*. 2018. 130(52): 17381 – 17386. (IF: 12.257)
7. Kunte M, Desai K. The Protein Extract of *Chlorella Minutissima* Inhibits The Expression of MMP-1, MMP-2 and MMP-9 in Cancer Cells Through Upregulation of TIMP-3 and Down Regulation of c-Jun. *Cell Journal*. 2018. 20(2): 211-219. (IF: 1.983)
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9. Martins J, Brijesh S. Phytochemistry and pharmacology of anti-depressant medicinal plants: A review. *Biomedicine & Pharmacotherapy*. 2018. 104: 343–365. (IF: 3.743)
10. Mehta M, Irani A, Rana H, Bhartiya M. Immunity for humanity: a revolutionary endeavour towards holistic health living. *Journal of Advances and Scholarly Researches in Allied Education*. 2019. 16(2): 1639–1660. (IF:0)
11. Multani S, Shah HD, Saranath D. Transforming growth factor beta receptor 2 single-nucleotide polymorphism association with oral cancer and In silico identification of small drug-like molecules as inhibitors to transforming growth factor Beta-2 receptor. *Biomedical Research Journal*. 2019. 6(1): 25-33. (IF: 0)
12. Nguyen N, Fernandes SG, Khattar E, Li Y. Recent advances and new insights for the therapeutic intervention of cancer. In: Rahman A, Choudhary MI (Eds.). *Frontiers in Anti-Cancer Drug Discovery*. Vol. 9, 2019. pp.1–63.
13. Parmar A, Brijesh S. Niosomes as Transdermal Drug Delivery System. *Biomedical Research Journal*. 2018. 5(2): 54–63. (IF: 0)
14. Pinto P, Parulekar P. Improving Fitness and Well-being in Women with Polycystic Ovarian Syndrome - The NEAT way. *International Journal of Scientific Research*. 2018. 7(8): 54–58. (IF: 0)
15. Raina S, Mungantiwar A, Halde S, Pandita N. A novel analytical approach towards in-vitro bile acid binding studies to colesevelam hydrochloride tablets: an ultra-high performance liquid chromatography tandem mass spectrometric method. *Journal of Pharmaceutical and Biomedical*

- Analysis. 2019. 165: 112-118. (IF: 3.209)
16. Sahoo S, Brijesh S. Pharmacogenomic assessment of herbal drugs in affective disorders. *Biomedicine and Pharmacotherapy* 2019. 109: 1148–1162. (IF: 3.743)
 17. Salunke N, Kharkar PS, Pandita N. Study of degradation behavior of besifloxacin, characterization of its degradation products by LC–ESI–QTOF–MS and their *in silico* toxicity prediction. *Biomedical Chromatography*. 2019. 33(6): e4489. (IF: 1.728)
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 19. Shah S, Agera R, Sharma P, Sunder AV, Singh H, James HM, Gaikawai RP, Wangikar PP. Development of biotransformation process for asymmetric reduction with novel anti-Prelog NADH-dependent alcohol dehydrogenases. *Process Biochemistry*. 2018. 70: 71-78. (IF: 2.883)
 20. Shelat R, Bhatt LK, Khanna A and Chandra S. A comprehensive toxicity evaluation of novel amino acid modified magnetic ferrofluids for magnetic resonance imaging. *Amino Acid*. 2019. 51(6): 929–943. (IF: 2.520)
 21. Singh G, Chandra S. Copper Doped Manganese Ferrites@PANI for Fabrication of Binder-free Nanohybrid Symmetrical Supercapacitors. *Journal of the Electrochemical Society*. 2019. 166(6): A1154–A1159. (IF: 3.120)
 22. Singh H. Desiccation and radiation stress tolerance in cyanobacteria. *Journal of Basic Microbiology*. 2018. 58 (10): 813-826. (IF: 1.76)
 23. Singh H, Apte SK. Effect of ⁶⁰Co-gamma ionizing radiation and desiccation stress on protein profile of *Anabaena* 7120. *The Protein Journal*. 2018. 37(6):608-621. (IF: 1.029)
 24. Thakkar M and Brijesh S. Physicochemical investigation and *in vivo* activity of anti-malarial drugs co-loaded in Tween 80 niosomes. *Journal of Liposome Research*. 2018. 28(4): 315–321. (IF: 2.576)
 25. Yete S, D'souza W, Saranath D. High-risk human papillomavirus in oral cancer: clinical implications. *Oncology*. 2018. 94(3): 133-141. (IF: 2.642)

2017-18

1. Chatterjee A, Nilgiriwala K, Saranath D, Rodrigues C, Mistry C. Whole genome sequencing of clinical strains of *Mycobacterium tuberculosis* from Mumbai, India: A potential tool for determining drug-resistance and strain lineage. *Tuberculosis*. 2017. 107: 63-72. (IF: 2.79)
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3. D'souza W, Saranath D. OMICS, oral cancer molecular landscapes, and clinical practice. *Omics*. 2017. 21(12): 689-703. (IF: 2.507)
4. Dutta S, Kharkar P, Sahu N, Khanna A. Molecular docking prediction and in vitro studies elucidate anti-cancer activity of phytoestrogens. *Life Sciences*. 2017. 185: 73-84. (IF: 3.234)
5. Hoonjan M, Jadhav V, Bhatt P. Arsenic trioxide: insights into its evolution to an anticancer agent. *JBIC Journal of Biological Inorganic Chemistry*. 2018. 23(3): 313–329. (IF: 3.632)
6. Hoonjan M, Sachdeva G, Chandra S, Kharkar PS, Sahu N, Bhatt P. Investigation of HSA as a biocompatible coating material for arsenic trioxide nanoparticles. *Nanoscale*. 2018. 10: 8031–8041. (IF: 7.233)
7. Kargutkar S and Brijesh S. Anti-inflammatory evaluation and characterization of leaf extract of *Ananas comosus*. *Inflammopharmacology*. 2018. 26(2): 469–477. (IF: 3.838)
8. Khandanlou R, Murthy V, Saranath D, Damani H. Synthesis and characterization of gold-conjugated *Backhousia citriodora* nanoparticles and their anticancer activity against MCF-7 breast and HepG2 liver cancer cell lines. *Journal of Materials Science*. 2018. 53: 3106-3118. (IF: 3.553)
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12. Salunke N, Pandita N. Stability indicating LC-DAD method for determination of nadifloxacin and characterization of its degradation products by LC–ESI–MS/MS. *Chromatographia*. 2018. 81(3): 469-478. (IF: 1.596)
13. Saranath D, Khanna A. Editorial: Breast/cervical cancers: Issues at stake. *Biomedical Research Journal*. 2018. 5(1): 1-5. (IF: 0)
14. Sheikh A, Parulekar P. Co-relation between VC & 6 minute walk test in patients with impaired lung functions. *Indian Journal of Physiotherapy and Occupational Therapy*. 2018; 12(1): 138–143. (IF: 0)
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16. Singh G, Chandra S. Electrochemical performance of mnfe_2o_4 nano-ferrites synthesized using

thermal decomposition method. *International Journal of Hydrogen Energy* 2018. 43: 4058-4066. (IF: 4.084)

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20. Thakkar M, Brijesh S. Stability-indicating HPLC method for primaquine diphosphate: An application to niosomal formulation. *Biomedical Research Journal*. 2018. 5(1): 39–51. (IF: 0)
21. Vaghela M, Iyer K, Pandita N. In vitro inhibitory effect of *Gymnema sylvestre* extracts and total gymnemic acids fraction on select cytochrome p450 activities in rat liver microsomes. *European Journal of Drug Metabolism and Pharmacokinetics*. 2018. 43(2): 227-223. (IF: 1.913)
22. Vaghela M, Sahu N, Kharkar P, Pandita N. *In vivo* pharmacokinetic interaction by ethanolic extract of *Gymnema sylvestre* with CYP2C9 (tolbutamide), CYP3A4 (amlodipine) and CYP1A2 (phenacetin) in rats. *Chemico-Biological Interactions*. 2017. 278: 141-151. (IF: 4.23)