

## Publications in the year 2020

1. Multi potent aromatic nano colloid: synthesis, characterization and applications. Soundhararajan, R., Mohamed Sheik Meeran, S.A.F., Prakash, S.P. et al. Multi potent aromatic nano colloid: synthesis, characterization and applications. *AMB Expr* 10, 168 (2020). <https://doi.org/10.1186/s13568-020-01104-5>
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3. Aerosolized hyaluronic acid decorated, ferulic acid loaded chitosan nanoparticle: A promising asthma control strategy.. Dhayanandamoorthy Y, Antoniraj MG, Kandregula CAB, Kandasamy R. Aerosolized hyaluronic acid decorated, ferulic acid loaded chitosan nanoparticle: A promising asthma control strategy. *International Journal of Pharmaceutics*. 2020 Oct;591:119958. DOI: 10.1016/j.ijpharm.2020.119958.
4. Novel Nanocarriers for the Treatment of Wound Healing. V Krishnaswami, NS Raju, S Alagarsamy, R Kandasamy. *Current Pharmaceutical Design* 26 (36), 4591-4600
5. Multi Potent Aromatic Nano Colloid: Synthesis, Characterization and Applications. Soundhararajan, R., Mohamed Sheik Meeran, S.A.F., Prakash, S.P. et al. Multi potent aromatic nano colloid: synthesis, characterization and applications. *AMB Expr* 10, 168 (2020). <https://doi.org/10.1186/s13568-020-01104-5>
6. In vitro study on aspects of molecular mechanisms underlying invasive aspergillosis caused by gliotoxin and fumagillin, alone and in combination. L Gayathri, MA Akbarsha, K Ruckmani *Scientific Reports* 10 (1), 1-20
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8. Myxopyrum serratum ameliorates airway inflammation in LPS-stimulated RAW 264.7 macrophages and OVA-induced murine model of allergic asthma. V Maruthamuthu, LJK Henry, MK Ramar, R Kandasamy. *Journal of ethnopharmacology* 255, 112369
9. Phytol loaded PLGA nanoparticles ameliorate scopolamine-induced cognitive dysfunction by attenuating cholinesterase activity, oxidative stress and apoptosis in Wistar rat. Sethuraman Sathya, Boovaragamoorthy Gowri Manogari, Kaliannan Thamaraiselvi, Sethuraman Vaidevi, Kandasamy Ruckmani & Kasi Pandima Devi (2020, *Nutritional Neuroscience*, DOI: 10.1080/1028415X.2020.1764290
10. Mechanistic investigation of PPAR $\gamma$ -facilitated anti-asthmatic effects of Galangin (Norisalpinin): Insights from in silico and in vivo analyses, Linda Jeeva Kumari Henry, Mohan Kumar Ramar, Selvamani Palanisamy, Subramanian Natesan, Ruckmani Kandasamy, *Biochemical and Biophysical Research Communications*, 526, 3, 833-840, 2020, <https://doi.org/10.1016/j.bbrc.2020.03.158>.
11.  $\alpha$ -Lipoic acid nanocapsules fortified cow milk application as a dietary supplement product for anemia. AM Saliq, V Krishnaswami, K Janakiraman, R Kandasamy. *Applied Nanoscience*, 1-17
12. Correction to: Development of Methotrexate and Minocycline Loaded Nanoparticles for the Effective Treatment of Rheumatoid Arthritis.. K Janakiraman, V Krishnaswami, V Sethuraman, S Natesan, V Rajendran, *AAPS PharmSciTech* 21 (3), 92
13. Development of Methotrexate and Minocycline Loaded Nanoparticles for the Effective Treatment of Rheumatoid Arthritis. K Janakiraman, V Krishnaswami, V Sethuraman, S Natesan, V Rajendran, *Aaps Pharmscitech* 21 (2), 34
14. Fabrication of stimuli gated nanoformulation for site-specific delivery of thymoquinone for colon cancer treatment—Insight into thymoquinone's improved physicochemical properties. JP Sweet, S Sowparani, P Mahalakshmi, N Selvasudha, D Yamini, *Journal of Drug Delivery Science and Technology* 55, 101334.

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16. HPLC-ESI-QqQ based standardization, mutagenic and genotoxic potential of methanol extract of *Ziziphus mauritiana* Lam leaves. MK Ramar, Y Dhayanandamoorthy, SS Ramachandran, R Kandasamy, Journal of ethnopharmacology 246, 112216
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18. *Passiflora caerulea* L. fruit extract and its metabolites ameliorate epileptic seizure, cognitive deficit and oxidative stress in pilocarpine-induced epileptic mice. GSB Aseervatham, E Abbirami, T Sivasudha, K Ruckmani. Metabolic Brain Disease 35 (1), 159-173.
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35. Chitosan-Based Ocular Drug Delivery Systems. S Natesan, V Krishnaswami, ST Veedu, DP Mohanan, K Ruckmani, Functional Chitosan, 107-134.
36. Characterization Techniques of Hydrogel and Its Applications. M Azeera, S Vaidevi, K Ruckmani. Cellulose-Based Superabsorbent Hydrogels, 737-761.
37. L-Ergothioneine: A Potential Bioactive Compound from Edible Mushrooms. S Nachimuthu, R Kandasamy, R Ponnusamy, J Deruiter, Medicinal Mushrooms, 391-407

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39. Novel nano therapeutic materials for the effective treatment of rheumatoid arthritis-recent insights. K Janakiraman, V Krishnaswami, V Rajendran, S Natesan, R Kandasamy. Materials Today Communications 17, 200-213.
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45. Development and evaluation of camptothecin loaded polymer stabilized nanoemulsion: Targeting potential in 4T1-breast tumour xenograft model. A Sugumaran, C Ponnusamy, P Kandasamy, V Krishnaswami, European Journal of Pharmaceutical Sciences 116, 15-25.
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63. Development of oral flexible tablet (OFT) formulation for pediatric and geriatric patients: a novel age-appropriate formulation platform. P Chandrasekaran, R Kandasamy. *AAPS PharmSciTech* 18 (6), 1972-1986.
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72. Atrial natriuretic peptide-conjugated chitosan-hydrazone-mPEG copolymer nanoparticles as pH-responsive carriers for intracellular delivery of prednisone. LJK Henry, S Natesan, R Kandasamy. *Carbohydrate polymers* 157, 1677-1686.
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