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RESEARCH PUBLICATIONS (LAST 5 YEARS)

1. Kalaiarasi Sivaji, Rajaretinam Rajesh Kannan, Nandhagopal Soundarapandiyan, Carlton Ranjith Wilson Alphonse and Suraiya Saleem. (2019) Endogenous human beta amyloid peptide interferes osteogenesis through Sox9a in embryonic zebrafish. Molecular Biology Reports (Accepted) IF 2.107

2. Sivaji, K. and Kannan,R R. (2019). Polysorbate 80 Coated Gold Nanoparticle as a Drug Carrier for Brain Targeting in Zebrafish Model. Journal of Cluster Science, 30(4), pp.897-906. IF 2.125

3. Pitchai, A., Kannan RR. and Freeman, J. (2019). Zebrafish as an Emerging Model for Bioassay-Guided Natural Product Drug Discovery for Neurological Disorders. Medicines, 6(2), p.61.

4. Persia Jothy, T., Kannan, R R. and Subramoniam, T. (2019). Lipid and carotenoid metabolism in the developing embryos of the intertidal anomuran crab, Emerita asiatica (Milne Edwards). Invertebrate Reproduction & Development, pp.1-11. IF: 0.672

5. Iniyan, A., Sudarman, E., Wink, J., Kannan, R.R. and Vincent, S. (2019). Ala-geninthiocin, a new broad spectrum thiopeptide antibiotic, produced by a marine Streptomyces sp. ICN19. The Journal of Antibiotics, 72(2), pp.99-105. IF:2.446

6. Saleem, S. and Kannan, R.R. (2018). Zebrafish: an emerging real-time model system to study Alzheimer's disease and neurospecific drug discovery. Cell Death Discovery, 4(1).

7. Pitchai, A., Nagarajan, N., Vincent, S. and Kannan RR. (2018). Zebrafish bio-assay guided isolation of human acetylcholinesterase inhibitory trans-tephrostachin from Tephrosia purpurea (L.) Pers. Neuroscience Letters, 687, pp.268-275. IF: 2.173

8. Nagasundaram N, Chellam J, Kannan R. R* Exploring the functional impact of mutational drift in LRRK2 gene and identification of specific inhibitors for the treatment of Parkinson disease 2018 Journal of cellular biochemistry 119(6) pp. 4878-4889. IF: 3.448
9. Nagasundaram N, Carlton Ranjith W.A, Prakash Vincent S.G, Kannan R.R* Molecular Dynamics Validation of Crizotinib Resistance to ALK Mutations (L1196M and G1269A) and Identification of Specific Inhibitors. 2017 Journal of cellular
10. biochemistry 118(10) pp. 3462-3471 IF: 3.448

11. Arjun P, Vincent SGP and Kannan R.R* HPLC - PDA isolation and LC – MS/MS detection of an acetylcholinesterase inhibitory flavonoid from Tephrosia purpurea in zebrafish brain. 2016. Indian Journal of Biochemistry and Biophysics Vol 53 104-11 IF: 0.357

12. Kalaiarasi S, Arjun P, Nandhagopal S, Brijitta J, Iniyan AM, Vincent SGP, Kannan RR*. Development of biocompatible nanogel for sustained drug release by overcoming the Blood Brain Barrier in zebrafish model. Journal of Applied Biomedicine (in press) DOI: 10.1016/j.jab.2016.01.004. IF: 1.573

13. Nandhagopal S, Iniyan AM, Kannan RR, Vincent SGP. In vivo evaluation of anti-MRSA compound from Streptomyces collinus ICN1 in zebrafish embryos. Indian Journal of Marine Sciences. 46(06) 1155-1161. IF: 0.301

14. Bhushan, B., Nandhagopal, S., Kannan, R.R. and Gopinath, P. (2016). Biomimetic nanomaterials: Development of protein coated nanoceria as a potential antioxidative nano-agent for the effective scavenging of reactive oxygen species in vitro and in zebrafish model. Colloids and Surfaces B: Biointerfaces, 146, pp.375-386. IF: 3.973

15. Bhushan, B., Nandhagopal, S., Kannan, R. and Gopinath, P. (2016) Therapeutic Nanozyme: Antioxidative and cytoprotective effects of nanoceria against hydrogen peroxide induced oxidative stress in fibroblast cells and in zebrafish. ChemistrySelect, 1(11), pp.2849-2856. IF: 1.716