EDITORIAL

Approaches in Theranostics and Pharmacological Sciences

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It is our pleasure to release the second issue (Volume 2, Issue 1) of INNOSC Theranostics and Pharmaceutical Sciences. In line with the journal’s primary scope – “therapeutic and diagnosis,” this issue published articles pertaining to the major aspects such as therapeutics, medical diagnosis, medicinal chemistry, drug metabolism and transport, nanomedicine, translational medicine, and molecular and cellular pharmacology. This issue has five original articles and one review article that was submitted by authors from different countries of origin.

One of the research articles entitled “Formulation Development and in vitro Characterization of Zolmitriptan Controlled Release Drug Delivery Systems” by Pandala et al., made an effort in developing the extended-release of zolmitriptan matrix to treat migraine [1]. Authors used the formulations from natural polymers/gums and have shown a promising delivery system which can enhance the bioavailability and has potential for greater therapeutic efficacy. The second article by Katagi et al. worked on “Schiff Base Oxime Derivatives Reactivate Chlorpyrifos-induced Acetylcholinesterase Inhibition” [2]. This study is primarily aimed at synthesizing a series of Schiff base oximes and assessing the in vitro reactivating potency against chlorpyrifos-inhibited acetylcholinesterase. Based on the study, authors concluded that compounds with chloro- and nitro-substitution on the 4th position yielded a better activity against chlorpyrifos-inhibited acetylcholinesterase. In addition, the above Schiff base oximes are claimed to be promising, because of their sufficient reactivation strength at lower concentration.

The third article was authored by Razalli et al. on “Antimicrobial Potential of Andrographis paniculata Conjugated Gold Nanoparticle” which delineates the carrier potential of gold nanoparticle [3]. To demonstrate their notion, the herbal extracts were capped on the gold nanoparticle and tested against the bacterial strains. The nanoparticle used in this study was characterized morphologically, chemically, and biologically. Authors demonstrated the inhibition potential of desired plant extracts and their higher antimicrobial activity mediated by the gold nanoparticle conjugation. Regarding the fourth article, Teh et al. have studied on “Toxicity Effect of Bougainvillea glabra (Paper Flower) Water Extracts on Zebrafish Embryo” [4]. This article assessed the acute toxicity and the potential teratogenic activity of water extracts of B. glabra bracts on zebrafish embryos. The researchers participated in this work concluded that the water extracts derived from the pink, purple, and dark pink bracts of B. glabra have mild toxicity toward embryo, a model for studies in pharmacology in the future.

The next article under the technical aspect is on “Antibacterial Potential of Aqueous Extracts and Compounds from Selected Brown Seaweeds” by Genga Raj et al., in which authors took a great effort to demonstrate the antimicrobial activity of the extracted compounds from the brown seaweed [5]. The only review article in this issue which is authored by Enjamoori et al. expounds an overview of Leucas aspera for phytopharmacological studies [6]. The authors gleaned the importance of phytomedicine with a special focus on the phytochemical and pharmacological aspects.

With these, we compiled the second issue with articles revolving around the primary aims and scope of the journal and more articles under this theme will be presented in the coming issues.

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