

Journal of Pharmaceutical Sciences & Technology Management

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Journal of Pharmaceutical Sciences & Technology Management

Journal of Pharmaceutical Sciences & Technology Management is a peer reviewed, open access journal and is an official publication of SVKM's NMIMS (Deemed to be University), Mumbai.

The Journal invites original research work dealing with multidisciplinary areas including, but not limited to, drug discovery, novel drug delivery systems (NDDS), pharmaceutical biotechnology, preclinical pharmacology, toxicology, formulation and pharmaceutical analysis. The main objective of the Journal is to publish studies related to 1) the design, synthesis and evaluation of new chemical entities (NCEs) as therapeutic agents, with main emphasis on the diseases of the tropical countries; 2) design, development and evaluation of novel drug delivery systems; 3) development and applications of methods and techniques involving marine biotechnology, enzyme immobilization, novel peptide design, enzyme kinetics, enzyme assays, etc.; 4) development of animal models of the disease and testing of NCEs, acute and subacute toxicity studies and drug metabolism studies; 5) preformulation studies of the New chemical entities (NCEs), evaluation of the polymorphic forms, etc.; 6) development and validation of the analytical and bioanalytical methods; 7) computational studies leading to the enhanced understanding of the structure-activity relationships (SAR), mechanisms of action and related areas.

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Editorial

SPTM is pleased to announce that it has come up with the second issue of Journal of Pharmaceutical Sciences and Technology Management (JPSTM).

The aim of this journal is to be multidisciplinary platform covering all the aspects of pharmacy and to serve as an opportunity for all the scholars who seek to publish their studies.

Academia is center of innovation and contributes significantly to industrial product launches. Despite of every scholar pursuing drug delivery system as a key area of research, no global industry is showing interest in launching the innovative product to be sellable. Thus, the suggestions given by Dr Saranjit Singh can help in filling the gap between the drug delivery researches carried out in Indian academic institutes and sellable commercial products.

Tryptophan is an essential amino acid and excessive dietary restriction or malnutrition of it decreases brain serotonin stores that leads to behavioral changes such as hyperactivity, depression, anxiety, and so on. Even with addition of L-tryptophan to infant formula, improvement in infant growth is seen as well as there is increase in antioxidant properties of the formula. Hence, the review discussed by Bichitra Nanda Nayak and Harpal Singh Buttar can be a keen interest to many scholars as it discusses about the health benefits of Tryptophan in children and adults.

Since ancient times, natural products have been proved to be useful for human and animal diseases. The present focus of researchers is to enhance herbal medicines' response, effect and deliver required quantity of drug to targeted diseased area. Also, it is seen that Nano based devices to deliver drugs are growing in demand. Sukhwinder K. Bhullar intends to give a mini review on the role of nanofibers in the delivery of herbal ingredients and natural plant based extract for the biomedical application.

Thrombocytopenia and lack of megakaryocyte progenitor population in umbilical cord blood transplantation, due to which its engraftment is delayed, present a major problem, as there is no specific treatment for it. Thus, it is important to find pharmacological compounds that will enhance platelet production, which can help in treatment of platelet disorders. Ankita C. Dhenge and her colleagues discuss the importance of different sources, strategies and use of pharmacological compounds like VPA and ATRA in megakaryocytes and platelet generation.

Due to the growth in the understanding of genetic pathways, the beneficial role of nucleic acids in several diseases of the pulmonary route has been appreciated. However there are various challenges in the gene delivery via pulmonary route such as minimizing the immune response,

preventing aggregation of the carriers, improving *in vivo* stability and so forth. Consequently, the review discussed by Jitendra Amrutiya and his colleagues that gives insights about various approaches to overcome the challenges in gene delivery and future perspective of pulmonary gene therapy, proves to be an informative article in this field.

Osteoarthritis of the knee is commonly seen in elderly and most often treated with NSAIDs or cox-2 inhibiting drugs. These NSAIDs block the synthesis of prostaglandins but do not block the other mediators of inflammation like leukotriene. Moreover, chronic use may lead to gastrointestinal and kidney complications. Therefore, a better alternative for the treatment of osteoarthritis is needed. Ms. Preeti Gota investigated the clinical utility of Phosphatidylcholine Complexed boswellia Serrata Extract for the symptomatic treatment of Osteoarthritis of the knee. With her work, she is able to conclude PC-BSE is a safe and effective alternative for symptomatic treatment of OA knee.

Radiopharmaceuticals have become important both for the different diagnostic and therapeutic applications. Quality control tests are extremely essential for them since they are administered in humans. Furthermore, to guarantee the radiological safety, some special tests are done besides that for the pharmaceuticals. Dr. Padmanabhan talks about all the quality control tests and instrumentation used for radiopharmaceuticals that are important so that no human is exposed to unnecessary radiation during diagnosis or therapy and all safety is achieved.

Dr. R.S.Gaud

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