



Editorial on Biological Roles of Enzymes Mittal Prach*

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EDITORIAL

International Journal of Pharmacy commemorates its decade long service to the scientific community by consistently publishing peer-reviewed articles and tracking the progress and significant advancements in the field of pharmacy. Ever since its inception in the year 2010, in addition to regular issue releases on a quarterly basis, this transdisciplinary journal is also releasing special issues and conference proceedings from time to time, thus comprehensively covering a wide range of topics and emerging challenges in pharmacy. The journal focuses on application oriented research on pharmaceutical sciences, drug delivery systems, biochemical and biophysical principles with bio-technology, biomedical and biological relevance and utility. In this issue some of the recent and impactful research articles that were published by the journal will be discussed.

A comprehensive review on hydrogel and novel applications in pharmaceuticals Kayalvizhi S, et al. [1]. Hydrogel is with chemicals or physically crosslinked, three-dimensional chemical compound network, extensively employed in varied medicine and pharmaceutical applications presented their review. The extremely porous structure of gel will simply be tuned by dominant the density of cross-links within the gel matrix and therefore, the affinity of the hydrogels for the liquid surroundings within which they're swollen. The present review focusses on the biomedical application of hydrogel in a pharmaceutical field.

A review on therapeutic effects of BCG vaccination on type 1 diabetes mellitus. Abel Abraham Thomas, et al. [2] Type 1 diabetes mellitus (DM) is a condition in which there occurs an absolute insulin deficiency due to autoimmune destruction of pancreatic beta cells. All life forms are subjected to one or more infectious and noninfectious infections all through their ways of life. In order to prevent mankind from such diseases, scientists have devised natural immunization techniques which is an invulnerable natural substance, utilized for prevention against specific infectious and noninfectious ailments. Utilization of immunizations for the diabetic patient will diminish the inflectional sickness brought about by diabetes, however it not forestalls diabetes. There is no robust evidence to support the significant benefit of BCG vaccine for the treatment of T1DM, according to the Systematic Review

and Meta-Analysis of Randomized Controlled Trials. BCG vaccinations did not induce a clinically meaningful return of C-peptide levels in the pancreas by regeneration, as observed in the NOD mouse model of diabetes Thus pancreas rescue or regeneration could not fully account for the persistent and long term HbA1c lowering in humans receiving BCG. BCG causes suppression of the autoimmune pathogenesis of diabetes by the generation of suppressor macrophages.

Management of endometriosis: an enigmatic disease, Al-Humaira Minhaj et al. [3] have shown the Endometriosis is an enigmatic disease that could start at birth which affects women of reproductive age. It is associated with hormonal imbalance, including increased estrogen synthesis, metabolism and progesterone resistance. These changes in hormones cause increased proliferation, inflammation, pain and infertility. In the last decades, large plentiful pharmacological agents have been evaluated for treatment of endometriosis associated pelvic pain. Few resulted ineffective; others proved unfit for clinical use, while few seemed to be very promising but must be investigated in RCT. Among them, very few have been introduced into the clinical practice. Although, current medical treatments are helpful for many women with endometriosis but they include side effects in some women and contraceptive action for women who desire to conceive.

These research articles published by the journal have immense relevance and significance in hydrogel and novel applications; therapeutic effects of BCG vaccination, and endometriosis is an enigmatic disease that could start at birth.

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