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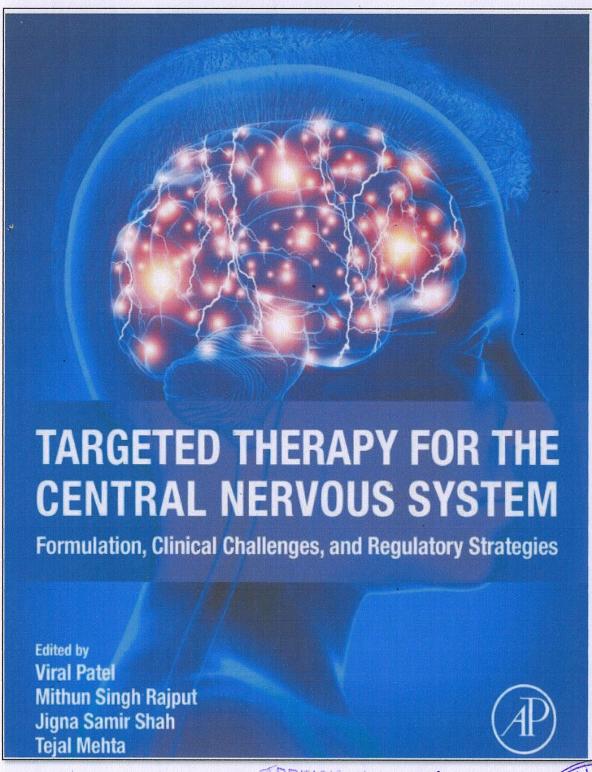
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Formulation, Clinical Challenges, and Regulatory Strategies

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Chapter 12 - Minimally invasive nasal depot (MIND) technique for direct BDNF AntagoNAT delivery to the brain

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Abstract

Chronic neurodegeneration observed in diseases like Alzheimer's disease Alzheimer dementia and Parkinson's disease (PD) is mainly due to repressed expression of brain derived neurotrophic factor (BDNF) by functional natural antisense transcripts BDNF is a neurotrophin belonging to class of secreted growth factors and is essential for neuronal growth and plasticity, maturation, differentiation, and maintenance. BDNF AmagoNATs mitigate the progression of these disorders by inhibiting NATs, thereby causing upregulation of endogenous BDNF levels and enhanced neuronal survival and proliferation. Minimally Invasive Nasal Depot (MIND) technique has been explored as a safer alternative to invasive approaches like intracerebroventricular or intrathecal injections, endoscopic skull base surgery and heterotopic mucosal engralting technique and to the non-invasive but highly variable intranasal delivery. Minimally Invasive Nasal Depot approach involves minor endoscopic surgical interventions followed by submucosal implantation/injection of entire dose of therapeutic modality within the submucosal space surrounding the olfactory neurons for its direct delivery to central nervous system via the basolateral membrane of olfactory epithelium. MIND technique allows higher uptake and distribution of BDNF AntagoNATs and other nucleotides in brain. This technique, in conjunction with novel systems like liposomes and in-situ gelling systems, has the potential for effective clinical translation of direct CNS delivery of neurotherapeutics in chronic neurodegenerative disorders.

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CHAPTER BY DR. AJAY KHARCHE



AAP Advances in Nutraceuticals

The Flavonoids

Extraction and Applications



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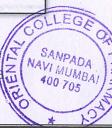
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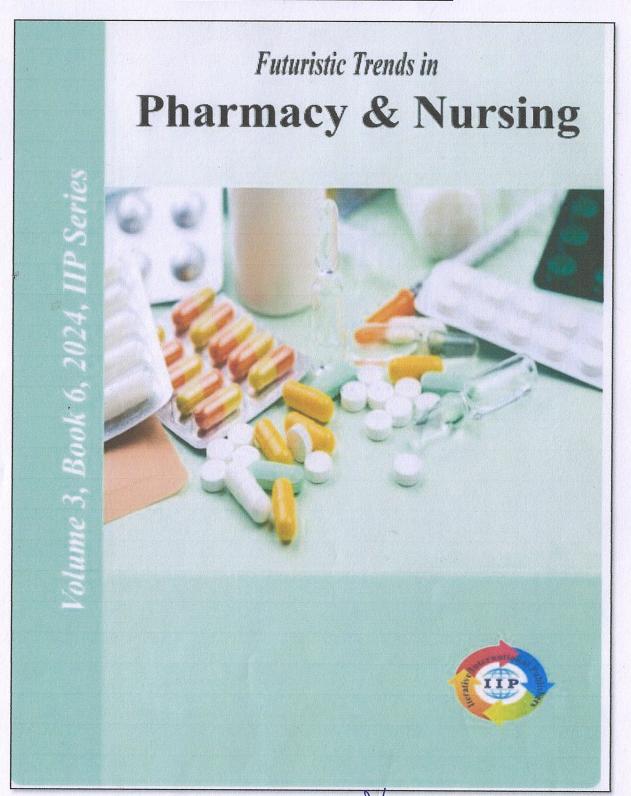
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ZEBRAFISH: AN EMERGING MODEL FOR ASSESSMENT OF DRUG EFFECTS IN ANIMALS

Abstract

Zebrafish (Danio rerio) are a Abhijit Mohan Kanavaje species of tropical freshwater fish that belong to the minnow family. In their natural habitat, these fish inhabit rivers and amkanavaje48@gmail.com ponds in various Asian countries, but they are now commonly available in pet stores. These fish derive their name, "zebrafish," from the distinctive horizontal blue stripes adorning both sides of their bodies. Despite Boraj, Khed, Maharashtra, India. the apparent differences between humans and zebrafish, there is a remarkable degree of similarity between us. In fact, approximately 70% of human genes can be found in zebrafish. Many of the genes and essential pathways responsible for developing these characteristics are highly conserved between humans and zebrafish. As a result, zebrafish can potentially serve as a model for studying various diseases that induce alterations in human bodily structures.

Keywords: humans and zebrafish, horizontal blue stripes, fish inhabit rivers

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Antifertility Emulgel Composition comprising Castor Oil and A Process Of preparation thereof



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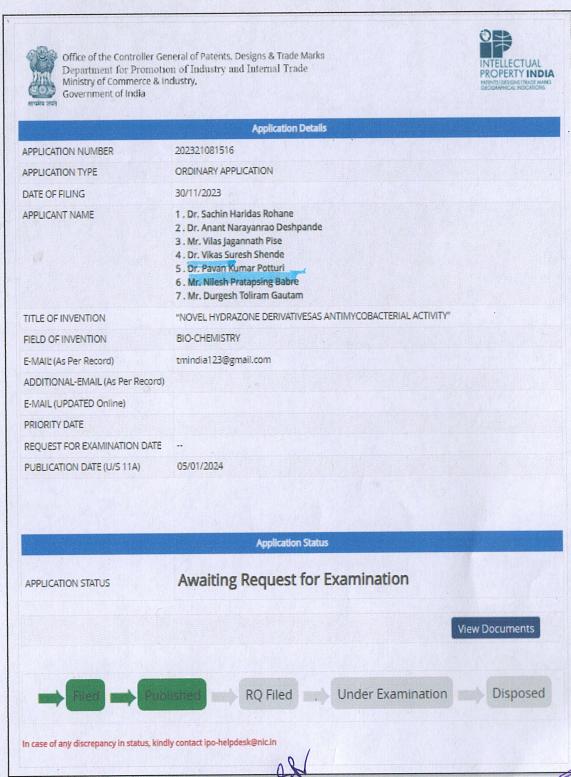
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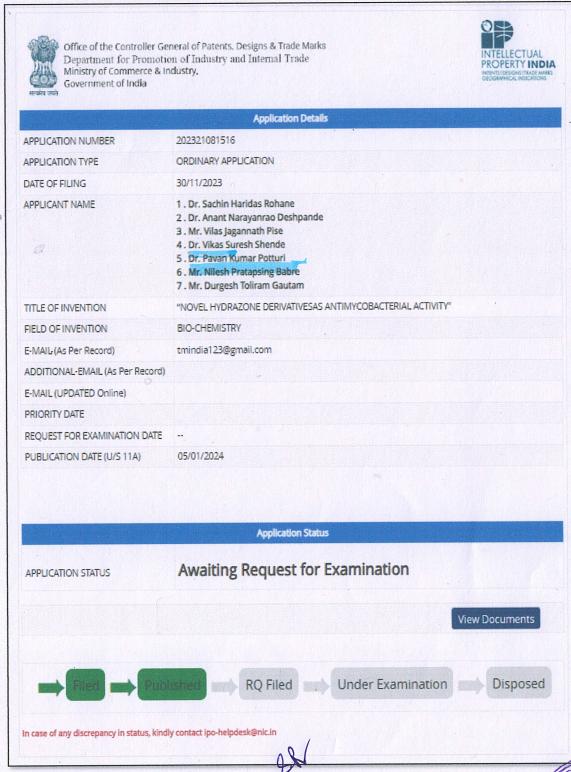
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Nonsteroidal Anti-Inflammatory Drugs (NSAIDS) Conjugates And Their Formulations Thereof



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