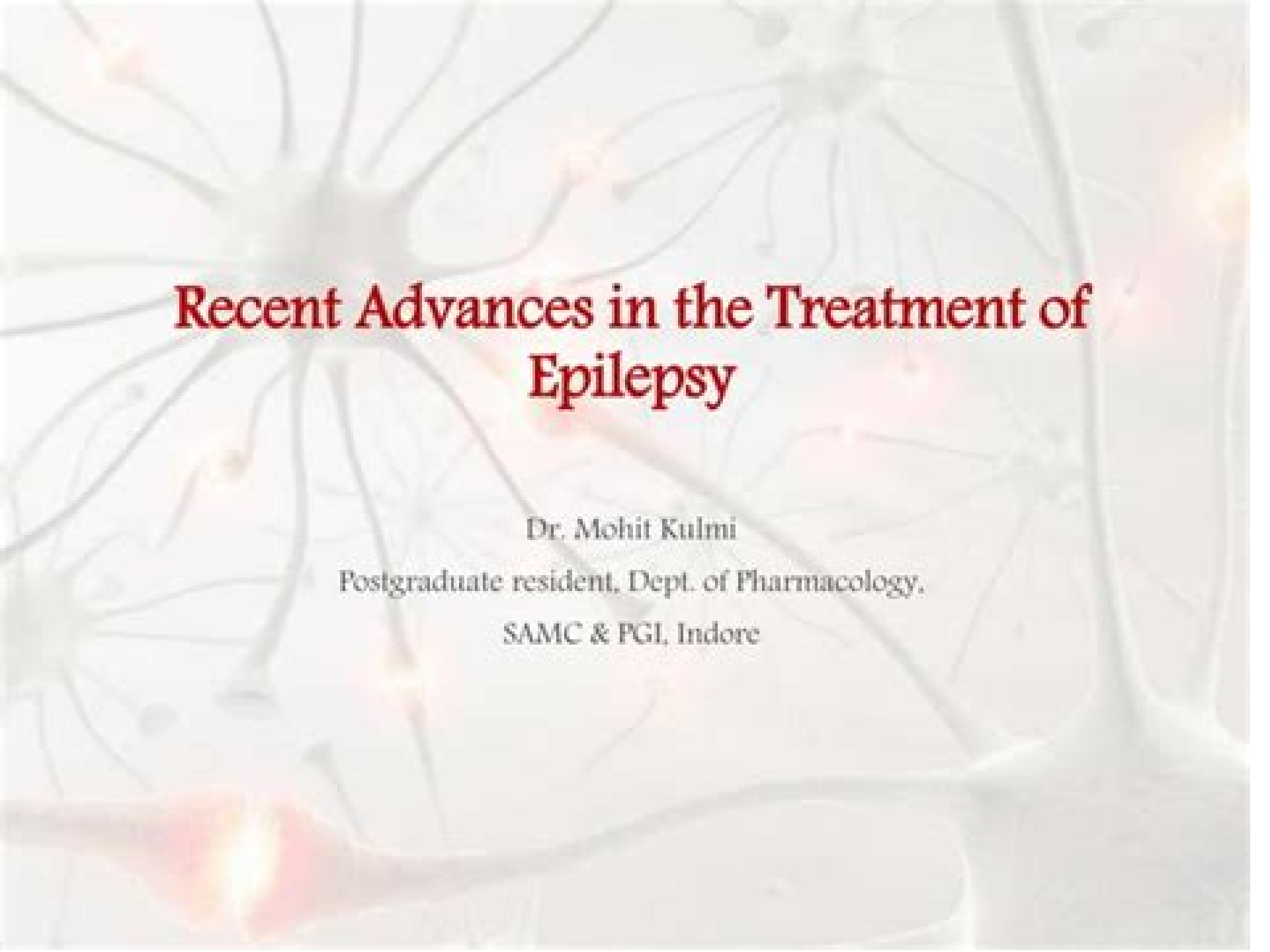




Recent Advances in the Treatment of Epilepsy

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drugs during the last 5 years Brivaracetam anticonvulsant effects are due to its highly selective affinity for synaptic vesicle protein 2A SV2A in the brain It is act as an SV2A ligand Among these drugs Cannabidiol is one of the prominent phytocannabinoids derived from the cannabis sativa The anticonvulsant mechanisms of action of CBD including antagonism of G protein coupled receptor 55 GPR55 desensitization of transient receptor potential vanilloid type 1 TRPV1 channels and potentiation of adenosine mediated signaling through inhibition of the equilibrative nucleoside transporter 1 ENT 1 and enhancement of GABAergic transmission The mechanisms of the antiseizure effect of Cenobamate are increasing the inactivated state of voltage gated sodium channels and acting as a positive allosteric modulator of the GABA A receptors by binding at a non benzodiazepine site Everolimus is a mammalian target of rapamycin mTOR inhibitor Fenfluramine is able to enhance extracellular serotonin levels modulate serotonergic and other neurologic receptors Nevertheless the exact mechanism of action of most of these drugs is unknown At least 30% of people with epilepsy have drug resistant epilepsy DRE therefore non pharmacological treatments have been considered the Vagus Nerve Stimulation VNS Trigeminal Nerve Stimulation TNS Transcranial Direct Current Stimulation tDCS Transcranial Magnetic Stimulation TMS are the most common neuromodulation based approaches Also in recent years a new field of GABA adenosine galanin and neuropeptide Y based cell and gene therapies for refractory epilepsy has emerged In spite of these advances significant gaps in knowledge still remain In particular the mechanisms underlying epilepsy including status epilepticus drug and surgical treatments are still not well elucidated Novel insights on pathophysiological mechanisms of epilepsy and new treatment options prompted us to collect the most recent publications on pharmacological and non pharmacological treatments of epilepsy So in this Research Topic we will focus on the advances in the field of treatment in epilepsy the pathophysiology and molecular aspects of seizure attacks and novel antiseizure medications

Recent Advances In Predicting And Preventing Epileptic Seizures - Proceedings Of The 5th International Workshop On Seizure Prediction Ronald Tetzlaff, Klaus Lehnertz, Christian E Elger, 2013-08-28 This book is to improve our understanding of mechanisms leading to seizures in humans and in developing new therapeutic options The book covers topics such as recent approaches to seizure control recent developments in signal processing of interest for seizure prediction ictogenesis in complex epileptic brain networks active probing of the pre seizure state non EEG based approaches to the transition to seizures microseizures and their role in the generation of clinical seizures the impact of sleep and long biological cycles on seizure prediction as well as animal and computational models of seizures and epilepsy Furthermore the book covers recent developments of international databases and of parallel computing structures based on Cellular Nonlinear Networks that can play an important role in the realization of a portable seizure warning device

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