

Indian pharmaceutical sector- Current scenario

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In the past few years, Indian Pharmaceutical industry has grown by leaps and bounds. Several factors have acted as a driving force for this – a) rising household income levels, b) increasing prevalence of lifestyle related diseases, c) improving healthcare infrastructure/delivery systems. Not only MNC's but also the domestic market has emerged enormously making India a lucrative destination of clinical trials for global giants. Indian pharmaceutical market grew at 15.7% during December 2011. The quality of the filings by major Indian companies has also significantly improved over the years. The Pharmaceutical industries are growing at a fast pace registering an annual growth of 8-9%. Considering the advantages like globalisation, information & technology, competent workforce, legal & financial framework that India has, the International Pharmaceutical Industry is finding greater opportunities in India. This paper presents a review on Pharmaceutical market in India with respect to its current status, generic market, government initiatives, challenges and its future perspectives.

Biography

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Nanoparticle-mediated brain-specific drug delivery, imaging and diagnosis

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The brain is a very complicated as well as a fragile organ and nature has played a very efficient role in protecting it. The brain is protected from many toxic substances and various chemicals by the presence of two barriers namely blood brain barrier (BBB) and blood cerebrospinal fluid barrier (BCSFB). Drug targeting to the brain has now become an important tool in the pharmaceutical field because of the many complicated diseases of the brain is exposed to. Various routes like craniotomy, non invasive route including osmotic disruption, colloidal drug delivery, intranasal route of administration and nanotechnology have been proposed to favor brain drug delivery. Novel drug delivery is the decisive part of this review. Nanotechnology plays a unique instrumental role in the revolutionary development of brain-specific drug delivery, imaging, and diagnosis. With the aid of nanoparticles of high specificity and multifunctionality, such as dendrimers and quantum dots, therapeutics, imaging agents and diagnostic molecules can be delivered to the brain across the blood-brain barrier (BBB), enabling considerable progress in the understanding, diagnosis, and treatment of CNS diseases. Nanoparticles used in the CNS for drug delivery, imaging, and diagnosis are reviewed, as well as their administration routes, toxicity, and routes to cross the BBB. Future directions and major challenges are outlined

Biography

J.Sai Supriya completed her Bachelors in Pharmacy from Lalitha College of Pharmacy affiliated to Osmania University. Currently pursuing her Masters in Pharmaceutical Analysis and Quality Assurance from Gokaraju Rangaraju College of Pharmacy (second semester) and a PG Diploma course in Pharma Regulatory Affairs from Bio Informatics Institute of India. She has presented 4 paper presentations so far in International and National conferences.

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