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Current medical nanotechnology approaches in chronic pain treatment

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Anadolu University, Turkey

Nanotechnology is a frequently used approach to problem solving in disease treatment and it can be considered as a collection of tools and ideas that can be applied in the pharmaceutical technology. Chronic pain (CP) is generally known as any type of pain that lasts longer than 12 weeks. Drugs used to treat CP include analgesics such as opioids and nonsteroidal anti-inflammatory drug. Because of the low bioavailability of most drugs and/or the short half-life, the drugs in conventional treatment are not sufficient to treat CP. The development of new more effective therapeutic treatments for CP relief is essential for enhancing the patient quality of life and safety and avoiding or limiting risks of abuse, addiction or serious injuries posed by some of the present CP therapies. With this aim, several advanced Nanocarrier systems (NCSs) have been developed to increase bioavailability, therapeutic efficacy and safety. NCSs can be used effectively as a drug delivery system (DDS) with unique physicochemical-biological properties. The use of NCSs in the treatment of CP is one of the most popular research topics. For example, nanotechnology-based DDSs prepared with Eudragit&PLGA polymer of dexketoprofen trometamol that has a short-live, have entered the literature. Also, NCSs were prepared by using different polymers with flurbiprofen and ketoprofen lysine. When the results of the studies are examined, they are compared with the following results. Release rates of drugs with short half-lives were increased in vitro and in vivo. They concluded that side effects due to fluctuations in drug blood levels and toxicity, effective treatment and good patient compliance and the need for multiple dose regimens were eliminated, especially in oral administration. Nanotechnological DDSs capable of long-term drug release are new, important and promising systems for the treatment of CP with short half-life and low bioavailability drugs.

Biography

A Alper Öztürk has completed his PhD from Anadolu University, Department of Pharmaceutical Technology in 2017. He has published more than 10 research articles about new drug delivery system and nanocarrier systems.

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Notes:

Scientific Sessions:

Pharmaceutical Sciences | Pharmaceutics | Novel Drug Delivery Systems | Pharmaceutical Technology | Pharmacy | Pharmacology and Toxicology | Pharmaceutical Care | Drug Discovery and Design | Clinical Pharmacy

Session Chair

Heyam S Ali
Dubai Pharmacy College for Girls, UAE

Session Introduction	
Title:	**Innovative methods for synthesis of novel pharmacophores**
	Rajender Reddy Leleti, Sambi Pharmaceuticals, India
Title:	**Targeting strategies of liposomes in cancer therapy**
	Heyam S Ali, Dubai Pharmacy College for Girls, UAE
Title:	**Current medical nanotechnology approaches in chronic pain treatment**
	A Alper Ozturk, Anadolu University, Turkey
Title:	**Effect of oxidized regenerated cellulose application on post-trombectomy bleeding and pain**
	Alp Yildiz, Yildirim Beyazit University, Turkey
Title:	**Combination of irritable bowel syndrome with fibromyalgia and the effect of irritable bowel syndrome treatment on both**
	Aybala Yildiz, Yildirim Beyazit University, Turkey
Title:	**Novel targets to neurological disorder - Alzheimer's disease**
	Sumithra Mohan, SRM College of Pharmacy, India
Title:	**Qualitative study of stakeholder's perspectives on the current management and control of asthma patients in the North West of England**
	Aseel Mahmoud, Liverpool John Moores University, UK
Title:	**Effect of Stachys circinata and Grape Leaves Vitis vinifera extracts on cell proliferation in MCF-7 and HepG2 human cancer and the benefit of grape leaves on Bax and Bcl-2 mRNA expression level**
	S zerizer, Université des frères Mentouri-Constantine, Algeria