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New nano technological approaches and research in the treatment of periodontal disease

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There have been various efforts in designing different drug delivery systems (DDSs) for periodontal diseases based on the functionalized nanomedicines. The aim of this study is to review the recent treatment of periodontal diseases with nanomaterials. Moreover, this study also focuses on basic principles of utilizing the nanomaterials to create better DDSs for treatment of periodontal diseases. This type DDSs have numerous advantages include improved efficacy, reduced toxicity and improved patients compliance and convenience. Novel DDSs are being introduced for the treatment of periodontal diseases. Examples of these DDSs can be listed as follows: films, nanogels, nano-micro particles, liposomes, nanofibers, quantum dots, nanopores, nanotubes, nanofillers, nanocomposites, scaffold etc. Many drugs used in periodontal diseases have been encapsulated into these systems. Examples of these encapsulated drugs can be listed as follows: tetracycline, doxycycline, minocycline, metronidazole etc. The treatment of periodontal disease with new DDSs mentioned at above section, represent a step forward toward successful long-term healing by increasing the treatment efficacy, specificity, tolerability and therapeutic index of encapsulating drugs. Main treatment strategies in periodontal disease with nanomaterials are removal of microbial biofilm, delivery of novel active compounds for host inflammatory response modulation and supporting regeneration of periodontal tissue. By the improvement in the periodontal DDSs, it can be emphasized that the nanotechnology which is antibiotic free, mucoadhesive, biodegradable has a huge opportunity for designing a novel, low dose, and effective treatment. It will make possible for Nano dentistry to maintain the comprehensive oral health by employing nanomaterials, biotechnology which includes the tissue engineering and dental nanorobotics. Even though this technology is at a primary stage, it has already made a profound clinical and commercial impact in the field of dentistry.

Biography

In 2016, he graduated from the Faculty of Dentistry of Atatürk University. He started his periodontology residency at Bülent Ecevit University. He is currently working as a research assistant at Eskişehir Osmangazi University.

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Notes:

Scientific Sessions:

Bioavailability and Bioequivalence | Pharmaceutical Sciences | Pharmaceutical Technology | Clinical Pharmacy | Drug Discovery and Design | Novel Drug Delivery Systems | Pharmacy

Session Chair

Heyam S Ali
Dubai Pharmacy College for Girls, UAE

Session Introduction	
Title:	**Bioavailability, bioequivalence & pharmacokinetic study - regulations, design, conduct and analysis**
	Kavitha Jayaseelan, SRM College of Pharmacy, India
Title:	**Rubber band ligation on internal hemorrhoid treatment as a safe and effective option**
	Alp Yildiz, Yildirim Beyazit University, Turkey
Title:	**Freshwater Sapropel as raw material in pharmaceutical production**
	Agris Auce, Rigas Stradins University, Latvia
Title:	**The role of oxysterols as selective estrogen receptor modulators (SERMs) at promoting tumor growth in adrenocortical carcinoma**
	Norah Mobarki, College of Medicine University of Sharjah, UAE
Title:	**Design, synthesis and evaluation of some novel substituted benzene sulphonamide derivatives as anti-inflammatory agents**
	Priya Deivasigamani, SRM College of Pharmacy, India
Title:	**New nano technological approaches and research in the treatment of periodontal disease**
	Burak Gokay Yıldırım, Eskişehir Osmangazi University, Turkey
Title:	**Development of fast dissolving tablets of Almotriptan Maleate using superdisintegrants**
	Kalaiselvi S, SRM College of Pharmacy, India
Title:	**Preparation and characterization of mixed polymeric micelles as a versatile strategy for meloxicam oral administration**
	Francisco Veiga, University of Coimbra, Portugal