INTERNATIONAL MEETING ON EDUCATION AND RESEARCH IN HEALTH SCIENCES

(IMER-HS)

ABSTRACT BOOK

3-5 November 2017

Istanbul, Turkey

MARMARA UNIVERSITY 1883

Institute of Health Sciences

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Preparation, Characterization and Properties of Melatonin-loaded Polycaprolactone Microspheres as a Drug Delivery System

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Biodegradable polymers are widely used materials in many medical applications including drug delivery systems and implants cause of their good biocompatibility and degradability in human body. Electrospraying is one of the novel method which can produce microparticles by using this kind of polymers. This method assure many advantages such as economical manufacturing and less time-consuming than other methods. In this research, encapsulation of melatonin hormone in polycaprolactone (PCL) microparticles by using electrospray was investigated. Experimental parameters such as electrospraying voltage, concentration of PCL-Dichloromethane (DCM) solution, electrospraying distance and flow rate of PCL solutions were performed. Scanning electron microscopy (SEM) images observed that 3 wt % PCL solution microparticles has most appropriate particle diameter size (2.3 ± 0.64 µm) for melatonin encapsulation. Optimal collecting distance, flow rate of the solution and voltage of the system that yielded favorable results were 8 cm, 0.5 mL/h and 10 kV, respectively. Encapsulation efficiency of melatonin calculated as 73.39 %. Melatonin loaded microparticles were characterized by using a Fourier-transform infrared spectroscopy (FT-IR), results showed that melatonin was successfully loaded into PCL microparticles. Melatonin loaded particles were evaluated in UV spectrometer for drug release kinetic. Results showed that, melatonin burst released at the beginning and release behavior became sustainable over a period of 8 hours. This study reveals that electrospraying is a successful method for the encapsulation of melatonin in PCL microparticles.