



COLLEGE OF PHARMACY
PHARMACEUTICAL SCIENCES
UNIVERSITY OF MICHIGAN

Pharmaceutical Sciences Seminar

Wednesday, January 24, 2018
Room 2548 C.C. Little Building
4:00-5:00 pm

“Translation of microneedles for drug delivery to skin and eye: design, development and clinical trials”



Presented by:

Mark R. Prausnitz

Regents' Professor and J. Erskine Love, Jr. Chair
in Chemical & Biomolecular Engineering
Georgia Institute of Technology

Abstract

Targeted drug delivery to the skin and within the eye can improve drug efficacy and reduce side effects. We will report on vaccination using microneedle patches, including recent results from human trials, as well as development of novel methods to direct drug delivery to the back of the eye by microneedle injection into the suprachoroidal space.

Bio

Mark Prausnitz is Regents' Professor and J. Erskine Love Jr. Chair of Chemical and Biomolecular Engineering at the Georgia Institute of Technology. He earned a BS degree from Stanford University and PhD degree from MIT, both in chemical engineering. Dr. Prausnitz and colleagues carry out research on biophysical methods of drug delivery using microneedles, lasers, ionic liquids and other microdevices for transdermal, ocular and intracellular delivery of drugs and vaccines. Dr. Prausnitz teaches an introductory course on engineering calculations, as well as two advanced courses on pharmaceuticals. He has published more than 240 journal articles and has co-founded five start-up companies including Micron Biomedical and Clearside Biomedical.