



CENTER FOR
DERMAL RESEARCH

You're invited. . .
CDR Seminar Series

Joachim Kohn, Ph.D.
March 26, 2014 (5:30PM)

Please Note: This is a Wednesday Meeting

"NANOPARTICULATE DRUG CARRIERS FOR THE DELIVERY OF ACTIVES"

RSVP to: <http://tinyurl.com/cdrseminar3-26-2014>

Abstract

A tunable family of tyrosine-derived triblock copolymers was synthesized with hydrophobic blocks composed of oligomers of desaminotyrosyl-tyrosine esters, diacids, and poly(ethylene glycol) as hydrophilic blocks. These triblock copolymers spontaneously self-assemble to produce TyroSpheres™ (nanospheres, 60-70 nm diameter) that act as an effective sink for binding lipophilic drugs including paclitaxel and cyclosporine. TyroSpheres™ have been found to be non-cytotoxic to cells, provide enhancement of drug solubility and stability, effectively encapsulate therapeutically relevant amounts of drugs and release them in a rate-controlled manner. Data will be provided illustrating the use of these nanospheres for skin applications.



Bio:

PhD, Weizmann Institute of Science
Director, New Jersey Center for Biomaterials
Board of Governors Professor of Chemistry

In 2014, Professor Kohn was inducted into the National Academy of Inventors. He is the recipient of numerous awards and honors, including the prestigious Thomas Alva Edison Patent Award for best patent in New Jersey in the category of medical research, once in 1999 for his invention of tyrosine-derived polycarbonates, and once in 2006 for his invention of the first combinatorially designed library of polyarylates.

Professor Kohn's research interests focus on the development of new biomaterials. He pioneered the use of combinatorial and computational methods for the optimization of biomaterials for specific medical applications. He is mostly known for his seminal work on "pseudo-poly(amino acid)s" - a new class of polymers that combine the non-toxicity of individual amino acids with the strength and processability of high-quality engineering plastics. Medical devices using these materials have been implanted in more than 40,000 patients.

LOCATION: *Life Sciences Building*

*Rutgers - The State University of New Jersey, 145 Bevier Road, Piscataway
New Jersey 08854*

New Jersey Center for Biomaterials Suite - Conference Room 102

TIME: *5:30 PM*

HOST: *Bozena B. Michniak-Kohn, Ph.D., M.R.Pharm.S. Director, Center for Dermal Research,
Professor of Pharmaceutics, Ernest Mario School of Pharmacy*