



אוניברסיטת בן-גוריון בנגב
Ben-Gurion University
of the Negev

The Faculty of Engineering Sciences

בימת דיקן הפקולטה למדעי ההנדסה

פרופ' גבי בן-דור, דיקן הפקולטה למדעי ההנדסה
מתכבד להזמין להרצאת אורח בימת-הדיקן



Professor Samuel I. Stupp

Board of Trustees Professor of Materials Science, Chemistry and Medicine
Director, Institute for BioNanotechnology in Medicine
Northwestern University

ירצה בנושא:

Biological Signaling with Supramolecular Nanostructures and Their Hierarchical Systems

Biological signaling by artificial nanostructures that mimic the components of extracellular matrices offers many opportunities to develop strategies in regenerative medicine. Supramolecular peptide nanostructures are particularly interesting since they can be designed to activate or recognize specific cell receptors. Our laboratory has developed one-dimensional nanostructures based on peptide amphiphiles that display epitopes to cells in high density resulting in remarkable bioactivity in various in vivo models. In combination with biopolymers or on their own these same molecules can form by self-assembly hierarchical structures that take the form of membranes, microcapsules, and monodomain gels of bundled nanofibers. The lecture will describe the synthesis and characterization of these systems as well as their biological response in regeneration models in the brain,

יום ראשון, ל' בחשון תשע"א, 7 בנובמבר 2010

ההרצאה תחל בשעה 14:15

אודיטוריום בניין היי-טק (בניין 37 חדר 202) קומה 2

לפני ההרצאה יוגש כיבוד קל (13:45)