Pritzker Institute of Biomedical Science and Engineering
Along with
The Department of Biomedical Engineering
PRESENTS

Robert A. Pritzker Distinguished Lecturer

Gordana Vunjak-Novakovic

Mikati Foundation Professor of Biomedical Engineering
Professor of Medical Sciences (in Medicine)
Director, Laboratory for Stem Cells and Tissue Engineering
Columbia University, New York

Friday, February 3, 2017
1:50 pm – Wishnick Hall 113
Reception to follow

"Engineering Human Tissues for Regenerative Medicine and Study of Disease"

Tissue engineering is becoming increasingly successful with authentically representing the actual environmental milieu of the development, regeneration and disease. A classical paradigm of tissue engineering is related to the integrated use of human cells, biomaterial scaffolds (structural and logistic templates for tissue formation) and bioreactors (culture systems providing environmental control, molecular and physical signaling) in regenerative medicine. Living human tissues can be bioengineered from the autologous stem cells, and tailored to the patient and the medical condition being treated. More recently, the same principles are being successfully applied to the patient-specific "organs on a chip" platforms designed to recapitulate some aspects of human physiology. This talk will discuss some recent advances in regenerative engineering and modeling of disease using functional human tissues grown in lab.

This event is free and open to the Illinois Tech Community