



Department of Biomedical Engineering
Graduate Seminar



Dr. Houman Savoji, Ph.D.

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Subject: Advanced Biofabrication Strategies for Tissue Engineering, Regenerative Medicine and Organ-on-Chip Applications

Abstract:

Biofabrication strategies can be used to engineer 3D tissues and organs by mimicking the structure and function of native tissue through the precise assembly of materials and cells. In this talk, we discuss these emerging technologies that can revolutionize engineering and life science fields in future.

Bio:

Dr. Houman Savoji is an Assistant Professor in the Institute of Biomedical Engineering and Department of Pharmacology and Physiology of the University of Montreal and a Principal Investigator at the CHU Sainte-Justine Hospital Research Centre. He is also a TransMedTech Institute Chair in regenerative medicine, organ-on-chip and bioprinting. His primary research interest lies in the general area of Advanced Biomanufacturing with particular emphasize on Micro- and Nano-fabrication of Functional Biomaterials for Tissue Engineering and Regenerative Medicine Applications. His research focus is to design, develop, optimize, implement and characterize novel functional biomaterials and devices/platforms by utilizing emerging engineering technologies including 3D Bioprinting, Microfluidics and Electrospinning for one of the most highly demanding markets in the engineering and medical disciplines.

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