

# BIOENGINEERING & BIOMEDICAL ENGINEERING RESEARCH SEMINAR



## STEM CELL BIOPROCELL DEVELOPMENT FOR DIABETES CELL-BASED THERAPY

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Cellular therapy may revolutionize the treatment of degenerative diseases such as diabetes. Several stem cell-based cellular therapy products are already used to treat a limited number of severe diseases. The broad clinical application of cell-based products would require significant advances in process optimisation to reduce production costs. The research in the Hoesli lab focuses on designing novel bioprocesses and bioreactors to manufacture cell-based therapeutic products. A highly scalable cell encapsulation process was developed to culture stem cells in 3D hydrogels. To overcome the oxygen limitations inherent to immobilized cell culture, Prof. Hoesli's team is now developing perfused cell culture methods using 3D printing.

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MD 267  
1:00PM



McGill

Department of  
Bioengineering

