Stanford

Alexander Vlahos

Postdoctoral Research Fellow, Chemical Engineering

Bio

HONORS AND AWARDS

- NSERC Postdoctoral Fellow, Natural Sciences and Engineering Research Council of Canada (04/01/2021)

PROFESSIONAL EDUCATION

- Bachelor of Science, McMaster University (2013)
- Doctor of Philosophy, University of Toronto (2019)

STANFORD ADVISORS

- Xiaojing Gao, Postdoctoral Faculty Sponsor
- Xiaojing Gao, Postdoctoral Research Mentor

Research & Scholarship

LAB AFFILIATIONS

- Xiaojing Gao, Gao Lab (4/1/2020)

Publications

PUBLICATIONS

- **Endothelialized collagen based pseudo-islets enables tuneable subcutaneous diabetes therapy** *BIOMATERIALS*
  Vlahos, A. E., Kinney, S. M., Kingston, B. R., Keshavjee, S., Won, S., Martyts, A., Chan, W. W., Sefton, M. V.
  2020; 232: 119710
- **A scalable device-less biomaterial approach for subcutaneous islet transplantation** *Biomaterials*
  Vlahos, A. E., Tailor-Volodarsky, I., Kinney, S. M., Sefton, M. V.
  2020
- **Modular tissue engineering for the vascularization of subcutaneously transplanted pancreatic islets** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Vlahos, A. E., Cober, N., Sefton, M. V.
  2017; 114 (35): 9337–42
- **Endothelialized collagen modules for islet tissue engineering** *Transplantation, Bioengineering, and Regeneration of the Endocrine Pancreas*
  Vlahos, A. E., Sefton, M. V.
  Elsevier Inc..2019: 277–287
- **Interpenetrating Alginate-Collagen Polymer Network Microspheres for Modular Tissue Engineering** *ACS BIOMATERIALS SCIENCE & ENGINEERING*
  Mahou, R., Vlahos, A. E., Shulman, A., Sefton, M. V.

2018; 4 (11): 3704–12

- **Muted fibrosis from protected islets** *NATURE BIOMEDICAL ENGINEERING*
  Vlahos, A. E., Sefton, M. V.
  2018; 2 (11): 791–92
- **Interpenetrating Alginate-Collagen Polymer Network Microspheres for Modular Tissue Engineering.** *ACS biomaterials science & engineering*
  Mahou, R. n., Vlahos, A. E., Shulman, A. n., Sefton, M. V.
  2018; 4 (11): 3704–12
- **Injectable and inherently vascularizing semi-interpenetrating polymer network for delivering cells to the subcutaneous space** *BIOMATERIALS*
  Mahou, R., Zhang, D. Y., Vlahos, A. E., Sefton, M. V.
  2017; 131: 27–35
- **Using Del-1 to Tip the Angiogenic Balance in Endothelial Cells in Modular Constructs** *TISSUE ENGINEERING PART A*
  Ciucurel, E. C., Vlahos, A. E., Sefton, M. V.
  2014; 20 (7-8): 1222–34