Stanford

Alexander Vlahos

Postdoctoral Scholar, Chemical Engineering

Bio

HONORS AND AWARDS

- HFSP Postdoctoral Fellowship, Human Frontier Science Program (07/01/2021)
- NSERC Postdoctoral Fellow, Natural Sciences and Engineering Research Council of Canada (04/01/2021)

STANFORD ADVISORS

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

PATENTS

- Alex Vlahos, Xiaojing Gao, Jeewoo Kang. "United States Patent 17/985,624 Protease-controlled Secretion and Display of Intercellular Signals", Leland Stanford Junior University

Research & Scholarship

LAB AFFILIATIONS

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

Publications

PUBLICATIONS

- **Compact Programmable Control of Protein Secretion in Mammalian Cells** *BioRxiv*
  Vlahos, A. E., Call, C. C., Kadaba, S. E., Guo, S., Gao, X. J.
  2023
- **Protease-controlled secretion and display of intercellular signals.** *Nature communications*
  Vlahos, A. E., Kang, J., Aldrete, C. A., Zhu, R., Chong, L. S., Elowitz, M. B., Gao, X. J.
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- **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.
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- **A scalable device-less biomaterial approach for subcutaneous islet transplantation** *Biomaterials*
  Vlahos, A. E., Tailor-Volodarsky, I., Kinney, S. M., Sefton, M. V.
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- **Modular tissue engineering for the vascularization of subcutaneously transplanted pancreatic islets** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

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- **Degradable methacrylic acid-based synthetic hydrogel for subcutaneous islet transplantation.** *Biomaterials*
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- **Endothelialized collagen modules for islet tissue engineering** *Transplantation, Bioengineering, and Regeneration of the Endocrine Pancreas*
  Vlahos, A. E., Sefton, M. V.
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- **Interpenetrating Alginate-Collagen Polymer Network Microspheres for Modular Tissue Engineering.** *ACS biomaterials science & engineering*
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- **Interpenetrating Alginate-Collagen Polymer Network Microspheres for Modular Tissue Engineering** *ACS BIOMATERIALS SCIENCE & ENGINEERING*
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- **Muted fibrosis from protected islets** *NATURE BIOMEDICAL ENGINEERING*
  Vlahos, A. E., Sefton, M. V.
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- **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.
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