

Postdoctoral Associate position in Cancer Bioengineering

Tumor Microenvironment Engineering Laboratory
University of Pittsburgh, Department of Bioengineering and UPMC Cancer Center

Research areas

We employ a quantitative approach that integrates *microfluidics*, *systems biology modeling*, and *in vivo experiments* to investigate the role of the tumor microenvironment on breast and ovarian cancer growth, metastasis and drug resistance. Our group has projects in three main areas:

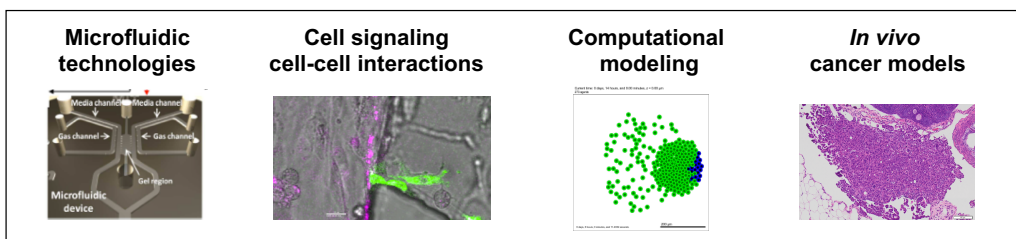
- (1) Drug-resistant microenvironments in breast cancer: modeling cellular dynamics
- (2) Metastatic dissemination in ovarian cancer: macrophages and fluid flow
- (3) Localized drug release technologies and single-cell functional assays

Postdoctoral Associate Opening

Applicants should hold a PhD in bioengineering, biomedical sciences or related fields. A strong background in cancer biology is preferred, including experience with quantitative assay development and optimization, microscopy. Openings are also available for candidates with a computational/mathematical background with expertise in mechanistic modeling and systems analysis.

The Tumor Microenvironment Engineering laboratory offers the opportunity to work at the forefront of cancer bioengineering, learn cutting edge techniques and collaborate with an interdisciplinary group of scientists and clinicians. The candidate will benefit from the rich biomedical research environment in the University of Pittsburgh, including the UPMC Hillman Cancer Center, the Department of Computational and Systems Biology, the Drug Discovery Institute and the Magee-Women's Research Institute. The city of Pittsburgh is one of the "most livable" cities in the US and is a leader in medicine, engineering and high-tech industries.

Openings are available starting September 2019.



Please visit the website (www.zervallab.com) to find out more about research projects, publications, mentoring and collaborations. Interested applicants please submit a CV, statement of research interests and contact information for three references to:

Ioannis Zervantonakis, Ph.D.

Assistant Professor, Department of Bioengineering

Email: ioz1@pitt.edu

The Department of Bioengineering is strongly committed to a diverse academic environment and places high priority on attracting female and underrepresented minority candidates. We strongly encourage candidates from these groups to apply for the position. The University of Pittsburgh is an affirmative action/equal opportunity employer and does not discriminate on the basis of age, color, disability, gender, gender identity, marital status, national or ethnic origin, race, religion, sexual orientation, or veteran status.