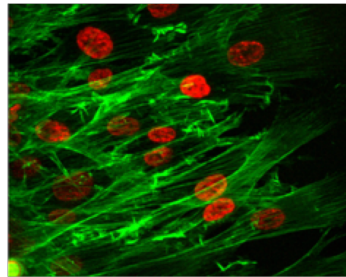


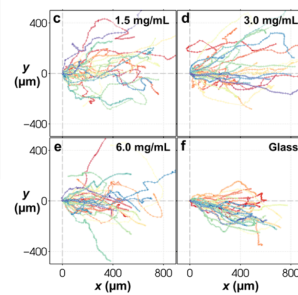
March 23, 2022

The Han Research Group in the School of Mechanical Engineering at Purdue University invites applications for PhD students and postdoc fellows. These positions are supported by multiple NIH and NSF-funded research projects. The Group's research theme is centered around biotransport and biomechanics, focusing on cancer biology, drug discovery, and cell/tissue engineering.

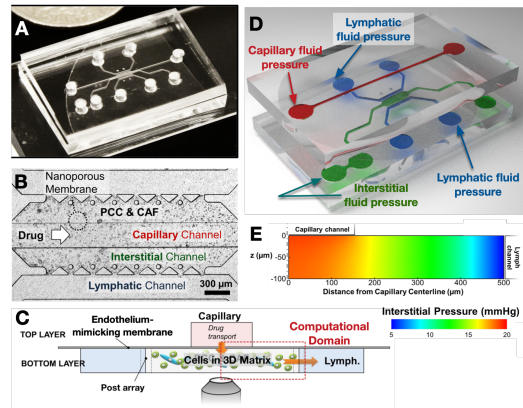
Mechanobiology (a.k.a. Biomechanics)



Cell Migration



Microfluidic Disease Models



Current research projects include the transport of drugs and nanoparticles at the tumor microenvironment, microfluidic disease models of pancreatic cancer and brain, and additive manufacturing of soft and biomaterials using 3D printing and microfluidics. The Group is affiliated to Purdue Center of Cancer Research, Purdue Institute for Drug Discovery, Bindley Bioscience Center, and Birck Nanotechnology Center.

The Group is highly diverse, interdisciplinary, and collaborative in multiple dimensions. More details about the Group can be found at <http://www.biotransportgroup.org>.

Qualifications

- Applicants should have BS, MS, or PhD degrees in mechanical, chemical, biomedical engineering or other relevant disciplines.
- Research experience and training in at least two of the following areas are preferred:
 - 1) Micro/nano-fluidics
 - 2) Quantitative fluorescence microscopy methods such as PIV, DIC, and FREP
 - 3) Cell/tissue culture including 3D cell cultures
 - 4) Computational analysis of mechanics and transport using COMSOL, ANSYS or FEBio
- Experience in cancer biology, immunology, or coagulation is preferred but not required.
- Effective written and oral communication skill is highly desired.
- Successful candidates will be expected to work independently and collaboratively within the Group as well as between collaborating labs.

If you are interested, please send your CV with three names of references to Professor Han at bumsoo@purdue.edu.