



## Morteza Mahmoudi

Instructor

Department of Anesthesiology, Harvard Medical School

Phone: 415-741-8577

Email: [mmahmoudi@bwh.harvard.edu](mailto:mmahmoudi@bwh.harvard.edu)

<https://www.brighamandwomens.org/anesthesiology-and-pain-medicine/Research/morteza-mahmoudi-research>

### Research Theme

BBMM and ENMM

### Research Areas

- Deep understanding of the nano-bio interfaces and biological identity of nanoparticles.
- Cardiovascular nanotechnology and regenerative medicine.
- Development of smart nanoparticles to fight antibacterial threat.
- Development of nano-patterned substrates for directing stem cell differentiation toward desired mature cell types.
- Design and development of optoelectronic nose for early detection of diseases.

### Research Facilities/Tools

- Protein corona
- LC-MS/MS
- Protein-analysis equipment
- Electron microscopy
- Magnetic Levitation
- Cell culture
- Cell-based imaging techniques

