

NIMA SAEIDI

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CURRENT POSITION

HARVARD MEDICAL SCHOOL

Boston, MA

Associate Professor

Leading a multidisciplinary research program focused on developing novel therapies for gastrointestinal stem cells, colorectal cancer, and inflammatory bowel disease.

- Developed a novel organoid culture system for gastrointestinal stem cells and colorectal cancer cells
- Developed various *in vitro* and animal models of IBD, colorectal cancer, and fibrosis
- Research identified the role of fibrosis in the progression of inflammatory bowel disease (IBD)
- Deep knowledge of pathways regulating glucose homeostasis, stem cell biology, and gastrointestinal system
- Awarded on multiple federal (NIH R01 and K01), industry grants, MGH Research Distinction Award
- Mentored over ten postdoctoral fellows, graduate students, and technicians

CO-FOUNDER

Boston, MA

Alvus Healthcare

Co-founded a venture-backed startup focused on developing a new platform for high-content drug screening for diseases of the gastrointestinal system, including colorectal cancer.

EXPERIENCE

HARVARD MEDICAL SCHOOL

Boston, MA

NIH-NRSA Postdoctoral Fellow

2009-2014

Developed animal models of bariatric surgery via which investigated the role of gut-pancreas cross-talk in the resolution of type 2 diabetes and obesity following bariatric surgery.

- First to discover the mechanism underlying resolution of type 2 diabetes following bariatric surgery (published in *Science*)
- Initiated and led a multi-institutional collaboration involving 3 groups across 3 Harvard Medical School hospitals (Massachusetts General, Boston Children's, and Shriners Hospitals)
- Twelve publications in leading scientific journals, including *Science* (1st author) and *Nature Medicine*.
- Long-standing experience with *in vivo* and *in vitro* metabolic phenotyping techniques such as glucose and insulin tolerance tests (oral, i.p., and i.v.), glucose and lipid uptake and metabolism, and PET/CT
- Working experience with various *in vitro* bioassays, particularly in hepatocytes and adipocyte culture.
- Awarded an *F32 NIH Postdoctoral Fellowship*
- Presented research extensively at various scientific conferences.

NORTHEASTERN UNIVERSITY

Boston, MA

Graduate Researcher

2005-2009

Designed and developed a novel biopolymer self-assembly technique to tissue engineer immune-inert cornea and bone analogs which are currently being successfully tested in animals.

- Published 11 journal articles in leading bioengineering journals, including *Biomaterials* and two patents
- Awarded the Joseph Ferretti Fellowship (2008 and 2009).
- Developed complex protocols for fabrication and functional testing of tissue-engineered corneas
- Extensive experience in tissue engineering, biopolymer fabrication, and cellular and molecular biology
- Prepared, presented, and defended novel research proposals on 4 different topics (biomaterials, tissue engineering, molecular biology, and corneal physiology) to 2-4 experts in each respective field.

EDUCATION

NORTHEASTERN UNIVERSITY

Boston, MA

Ph.D., Mechanical Engineering

June 2009

NORTHEASTERN UNIVERSITY

Boston, MA

M.Sc., Mechanical Engineering

June 2005

SHARIF UNIVERSITY OF TECHNOLOGY

Tehran, Iran

B.Sc., Mechanical Engineering

June 2003