



# STEM PATHWAYS

## Summer 2023 Seminar Series

Friday, July 28, 2023  
11:30-12:30 pm  
CILSE 101



**Hadi Nia**  
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Boston University

The Nia Lab conducts research at the interface of physical sciences, molecular biology, and immunology to answer the key questions in cancer (primary and metastasis) and pulmonary pathologies such as pneumonia, fibrosis, and COPD. We develop and utilize sophisticated models of disease in multiple scales (whole organ to single cell), and in multiple settings (in vivo, ex vivo, in vitro, and in silico). They are particularly interested in mechanobiology and mechano-immunity in the context of cancer metastasis, aging, and pathogen transmission/transport. The Nia Lab aim to leverage in vivo platforms as well as our ex vivo crystal rib cage platforms to probe lung biology from single cell to whole-organ, and in the context of cancer, discover new vulnerabilities of cancer cells, and propose new treatment strategies.