Postdoctoral Positions in Cancer Metabolism, Tumor microenvironment, and Immunometabolism

The Nagrath laboratory at the University of Michigan aims to broaden their work on understanding the role of tumor microenvironment in regulation cancer metabolism and translate the findings into novel therapeutic approaches. We are working to uncover the metabolic interactions between cancer cells and cells in neighboring tissue that support cancer growth and metastasis.

Postdoctoral positions are immediately available to outstanding candidates. The Nagrath laboratory focuses on innovative research in cancer metabolism with a specific focus on tumor metabolism, tumor microenvironment, extracellular vesicles, and immunometabolism.

**Our recent publications:**
Tumor microenvironment and cancer metabolism: (Yang et al., 2016, Cell Metabolism)

Exosomes, tumor microenvironment, cancer metabolism: (Zhao et al., 2016, eLife)


**Current projects are focused on two broad areas:**
1. **Developing Metabolic Therapies for Targeting Tumor Microenvironment:** Our lab has discovered that stromal cells supply essential metabolites to cancer cells by recycling metabolites secreted by cancer cells. We have now taken on the challenge of identifying such metabolic interactions between stromal and cancer cells that can be targeted by drugs to improve therapeutic outcomes for cancer

2. **Dissecting Metabolic Influences of Tumor Microenvironment:** Our lab discovered that tumor microenvironment derived exosomes act as care packages sent out by stromal cells to supply amino acids to nutrient-deprived
cancer cells. We are now working to unravel how extracellular vesicles from different parts of the TME can support cancer cell metabolism, with a goal of targeting this important mode of communication.

The University of Michigan Medical School and Biomedical Engineering Department consistently rank among the top 10 programs in the United States, according to US News & World Report. The scientific environment at U of M is ideally suited for the research pursued in the Nagrath lab. The strengths of the Nagrath laboratory, coupled with the facilities and equipment at U of M provides an exciting and exceptional scientific environment that is fully supportive of the proposed research.

**Required Qualifications***

We seek outstanding candidates with a strong background in cancer biology or immunology. Candidates with experience in fields of biochemistry, extracellular vesicles trafficking, cancer metabolism, or animal models in cancer are preferred.

**Background Screening**

The University of Michigan conducts background checks on all job candidates upon acceptance of a contingent offer and may use a third party administrator to conduct background checks. Background checks will be performed in compliance with the Fair Credit Reporting Act.

**Application Deadline**

Job openings are posted for a minimum of seven calendar days. This job may be removed from posting boards and filled anytime after the minimum posting period has ended.

**U-M EEO/AA Statement**

The University of Michigan is an equal opportunity/affirmative action employer.

**How to Apply**

Submit a complete CV along with the names of 3 references via E-mail to: Deepak Nagrath, dnagrath@umich.edu