

Dr. Jeremy Sivak

Scientist at University Health Network

Toronto, ON, CA

Dr. Sivak is investigating the molecular pathways directing cellular responses to tissue damage and repair in the eye.

Description

Dr. Sivak's laboratory is investigating the molecular pathways directing cellular responses to tissue damage and repair in the eye. This work has direct relevance to retinal degenerative diseases, and also serves as a model for these mechanisms in the central nervous system and other organs. His lab has recently turned its attention to damage of the inner retinal layers and optic nerve. Injury to these tissues drives the pathologic outcome for patients with glaucoma; a leading cause of vision loss and blindness in Canada and worldwide. Dr. Sivak is focusing on the roles that metabolic, oxidative, and biomechanical stress place on the sensitive retinal ganglion cells and their associated glia. For these experiments he uses a variety of molecular, cellular, and genetic techniques.

Industry Expertise

Research, Biotechnology, Pharmaceuticals

Topics

Molecular Biology, Drug Discovery, Cell Culture, Drug Development, Biochemistry, Glaucoma, Clinical Research, Immunology, Ophthalmology

Affiliations

Optometric Glaucoma Society

Education

Tufts University

Ph.D. Cell, Molecular, & Developmental Biology

McGill University

B.S. Biology

Accomplishments

Glaucoma Research Chair

Appointed by the Krembil Research Institute (Krembil).

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