Immunotherapy to treat pancreatic cancer

Record number : OPR-1437

Overview

RESEARCH DIRECTION

Lee-Hwa Tai, Professeure - Department of Immunology and Cellular Biology

INFORMATION

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ADMINISTRATIVE UNIT(S)

Faculté de médecine et des sciences de la santé
Département d'immunologie et de biologie cellulaire

LEVEL(S)

2e cycle
3e cycle

LOCATION(S)

Campus de la santé
IRCUS

Project Description

Pancreatic cancer remains one of the most challenging cancers to treat, due in part to its resistance to conventional therapies and highly immunosuppressive tumor microenvironment. Our laboratory is developing an innovative oncolytic virus-based approach designed to directly target tumor cells while reprogramming the tumor microenvironment to promote anti-tumor immunity.

This project will investigate and optimize a therapeutic vesicular stomatitis virus (VSV) and define its mechanisms of action in pancreatic cancer.

The PhD candidate will investigate the molecular and immune mechanisms underlying these effects and identify biomarkers associated with therapeutic response. The project will employ preclinical pancreatic cancer models, multiparameter flow cytometry, molecular biology, imaging, and patient-derived tumor models.

This project will provide multidisciplinary training at the interface of cancer biology, immunology, virology, and therapeutic development, within a highly collaborative and clinically oriented research environment.

Discipline(s) by sector

Sciences de la santé

Biologie cellulaire, Immunologie

Funding offered

Yes

CIHR

The last update was on 16 September 2026. The University reserves the right to modify its projects without notice.