Research

Dr. Lacombe's research program focuses on the development of platform technologies to investigate the biochemical and biophysical response of complex cellular environments to ionizing radiation. The research projects involve the elaboration of new experimental models including organ-on-chips or plant-based tissue bioengineered scaffolds to study the effect of space radiation or radiation treatment on human organs. Dr. Lacombe’s projects also include molecular biology and the development of point-of-care bioassays, including biosample preparation and biomarker detection, for the processing of radiation dosimetry protein and nucleic acids biomarkers. He is also interested in “omics” technologies and target approaches for discovering cancer and radiation biomarkers and for studying radiobiology.

Selected Publications


