

PSI Colloquium

WHGA/001

Auditorium

PSI-West



Tuesday, August 20, 2024, **11:00h**

Dr. Fiona Marshall

President of Biomedical Research

New technologies are changing the future of medicine

Abstract

The landscape of medicine is undergoing a seismic shift as new technologies emerge and mature. Increased understanding of the mechanisms of disease allows us to focus research efforts on providing a functional cure or long term remission for challenging diseases. The advent of new modalities in drug discovery, such as RNA-targeted therapies (xRNA) and radioligand therapies (RLT), is transforming the pharmaceutical landscape. These innovative approaches offer the potential to target diseases with greater precision and specificity, leading to improved patient outcomes. The integration of AI and other computational methods into the drug discovery process offers the potential to dramatically enhance efficiency – in particular in areas such as target identification, generative chemistry, and predictive safety. Advances in structure based drug design are being driven both through experimental data on protein complexes from cryo-electron microscopy as well as AI enabled predictive modelling. This talk will explore the cutting-edge approaches that are redefining drug discovery and their implications for the future of medicine.

Coffee before the colloquium at 10:45h

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