

20 DEC  
2024

Friday  
LECTURE

MEET & EAT \*

Light lunch provided  
Room Robin Holliday

11.00am - 12.00pm

12.00pm - 1.00pm



## Mitochondria at the hub of cell death and immunity in irradiated cancer cells

### ABSTRACT

Immunogenic cell death (ICD) is a functionally defined form of regulated cell death that culminates in the initiation of adaptive immune responses with an active effector phase. Radiation therapy (RT) is a bona fide ICD inducer, as demonstrated preclinically in both prophylactic vaccination assays and in abscopal tumor models. The ability of RT to drive ICD critically impinges on type I interferon (IFN) secretion by irradiated cancer cells. We demonstrated that ICD elicited by RT in preclinical models of HR+ breast cancer requires mitochondrial outer membrane permeabilization (MOMP) and is tonically inhibited by mitophagy and caspases.



### SPEAKER

#### Dr Lorenzo Galluzzi

Associate Professor, Fox Chase Cancer Center (Philadelphia, PA, US), Honorary Assistant Professor Adjunct, Yale School of Medicine (New Haven, CT, US), Faculty, University of Ferrara Graduate School (Ferrara, IT), Faculty, University of Padova Graduate School (Padova, IT), Faculty, University of Roma "La Sapienza" Graduate School (Roma, IT), Associate Director, European Academy for Tumor Immunology

### HOST:

Department of Cancer Research (LIH)

### RESPONSIBLE SCIENTIST:

Bassam Janji (Bassam.Janji@lih.lu)

\*Please note that registration for the MEET and EAT is mandatory by sending an email to [Siu-Thinh.Ho@lih.lu](mailto:Siu-Thinh.Ho@lih.lu)

### Locations:

#### Lecture:

CHL - Amphitheatre  
4, rue Ernest Barblé  
L-1210 Luxembourg

#### To join the Webinar:

JOIN

Event number: 2730 245 7720  
Event password: HcZPMYz9m92