LECTURE SERIES & WORKSHOPS 2020

CANCER RESEARCH

LUXEMBOURG INSTITUTE OF HEALTH
RESEARCH DEDICATED TO LIFE

UNIVERSITÉ DU LUXEMBOURG

17
Dec 2020
Thursday

WEBINAR

via Webex*

45' *(talk)* + 30' *(discussion)*

3.00pm - 4.15pm

Die or live trying - Cellular agony in anticancer immunity

ABSTRACT

The ability of dying cancer cells to initiate anticancer immune responses critically depends on the emission of chemotactic and immunostimulatory factors. However, multiple mechanisms are in place for limiting the immunogenicity of dying cells, including (but not limited to): the intracellular degradation of endogenous molecules that drive danger signaling (such as mitochondrial DNA) as well as the rapid inactivation/disassembly of cells that have committed to die but are still metabolically active. In line with this notion, pharmacological and genetic interventions that prolongs "cellular agony" boost the capacity of dying breast cancer cells to drive anticancer immunity in mice, and genetic signatures of improved cellular homeostasis are associated with poor tumor infiltration by immune cells in patients with breast cancer from public datasets.

In summary, cellular agony supports the immunogenicity of cancer cells by extending their capacity to productively engage with the immune system.

SPEAKER

Asst Prof Lorenzo GALLUZZI

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Faculty: University of Ferrara Graduate School (Ferrara, IT), University of Padova Graduate School (Padova, IT), University of Roma "La Sapienza" Graduate School (Roma, IT)

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