

08 OCT
2026

Thursday

LECTURE

MEET & EAT *

Light lunch provided
James Allison (BAM3)

11.00am - 12.00pm

12.30pm - 1.30pm



From Emergent AI Insights to Chrono- Immunotherapy: Learning When to Treat Cancer



ABSTRACT

Immunotherapy efficacy is increasingly understood to depend not only on what treatment is given, but also when it is administered. At the same time, advanced AI offers a powerful opportunity to uncover clinically relevant immunological patterns that may escape conventional hypothesis-driven analysis. In this lecture, I will elucidate how our AI framework, initially trained to capture neoantigen-specific HLA-I repertoire and co-associated spatially-defined myeloid-T cell interactions, showed an unexpected emergent learning capability. It independently identified circadian immune biology as a clinically relevant determinant of immunotherapy response in kidney cancer patients. This discovery prompted a chrono-immunotherapy program showing strong promise for morning-timed immune checkpoint blockade in kidney cancer patients that uncovered unexpected chrono-immunobiology associated with immunotherapy-deterministic myeloid-T cell interactions. The concept has now progressed into the ongoing TIC-TAC study, a treatment-matched, historical cohort-controlled observational single-arm study testing whether time-optimized immunotherapy can translate AI-derived biological insight into better patient care.

SPEAKER

Prof. Abhishek Garg

Group Leader, Cell Stress & Immunity (CSI) Lab; Director, RETROFIT platform; Research Associate Professor, KU Leuven, Belgium; Board Member, PharmAbs platform

HOST:

Luxembourg Institute of Health

RESPONSIBLE SCIENTIST:

Dr Bassam Janji (Bassam.Janji@lih.lu)

*Registration for the Meet & Eat is mandatory. Please email Siu-Thinh Ho to confirm your attendance: Siu-Thinh.Ho@lih.lu

Location:

Lecture:

CHL - Centre
Room: Amphitheatre
4, rue Ernest Barblé
L-1210 Luxembourg

In-person attendance is strongly encouraged. If you are unable to attend on site due to operational constraints, please contact Siu-Thinh Ho for the Webex link Siu-Thinh.Ho@lih.lu