

LECTURE SERIES & WORKSHOPS 2019

CANCER RESEARCH

27

MAY 2019

Monday

📍 **LECTURE**
CHL Luxembourg
Amphitheatre

MEET, GREET & EAT *

light lunch provided
CHL Luxembourg
Foyer

11.00 - 12.00 pm **12.00 - 1.00 pm**



* Registration is mandatory
by sending an email to
florence.henry@lih.lu



SPEAKER

Prof Mario SUVA

Assistant Professor of Pathology,
Harvard Medical School
Assistant Molecular Pathologist,
Massachusetts General Hospital
Institute Member, the Broad Institute of
MIT and Harvard

DISSECTING ADULT AND PEDIATRIC GLIOMAS BY SINGLE-CELL GENOMICS

ABSTRACT

Human gliomas are incurable malignancies. One of the daunting challenges is represented by their important level of heterogeneity. In this lecture I will show how one can leverage cutting-edge single-cell genomic tools to interrogate human gliomas in adults and children. I will review the lessons learned in IDH-mutant oligodendroglioma, IDH-mutant astrocytoma, H3K27M-mutant pediatric midline glioma and IDH-wildtype glioblastoma. I will

show how single-cell genomics have shed light on cellular lineages of malignant cells, cancer stem cell programs, linking expression and genetics. I will also discuss lessons learned in the composition of the tumor microenvironment, both myeloid cells and T cells. Finally, I will demonstrate how integrating single-cell genomics with large bulk profiles such as those from the TCGA can help shed light on brain tumor classification.

HOST:

LIH

RESPONSIBLE LIH SCIENTIST:

Anna Golebiewska
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