LUXEMBOURG INSTITUTE OF HEALTH
RESEARCH DEDICATED TO LIFE

UNIVERSITÉ DU LUXEMBOURG

LECTURE SERIES & WORKSHOPS

CANCER RESEARCH

15 JUNE 2017
Thursday

LECTURE
CHL *Strassen Amphitheatre*
11.00 - 12.00 pm

MEET & EAT *
light lunch provided
BAM
Room Mc Clintock
12.30 - 14.00 pm

9 10 11 12 1 2 3 4

*Please register sending a mail to florence.henry@lih.lu

SPEAKER
Michel MITTELBRONN
Head of the Department of Anatomic and Molecular Pathology, Head of Luxembourg Centre of Neuropathology (LCNP) & (FNR) PEARL Chair, Dudelange, Luxembourg

HOST:
Department of Oncology
RESPONSIBLE LIH SCIENTIST:
Simone Niclou
(simone.niclou@lih.lu)

A STITCH IN TIME SAVES NINE - WHAT ABOUT BRAIN TUMORS?

ABSTRACT

Until recently, the search for underlying causes for the development of brain tumors was mainly focused on genetic alterations. However, it currently becomes more and more evident that many of the mutations that have been found in brain tumors are neither tumor-type specific, nor drugable but rather facilitate proliferative activity. With the pioneering methylation analysis of the O6-methylguanine-DNA-methyltransferase (MGMT) gene, a first association of epigenetic marks with outcome and prediction for sensitivity to alkylating agents in glioblastoma patients could be demonstrated. Most recently, an even stronger link between tumor morphology, protein expression profiles and patient prognosis with the epigenetic profile of brain tumors has been established. This epigenetic profiling currently challenges the gold-standard of histological typing and grading of brain tumors since epigenome-wide methylation profiling become a fast and very robust method in neuropathological diagnostics. The epigenetic signatures of brain tumors may provide further insights into the understanding why dinstinct brain tumors display a characteristic morphology and growth behaviour.

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