

# CRCM

Cancer Research  
Center of Marseille



# External Seminar Series

Friday September 6, 2024  
01:00 PM, CRCM Library

Hosted by OHIO Department



## “What IDH mouse models have taught us about hematological diseases, from leukemia to T cell lymphoma”



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**Abstract:** Genetically engineered mouse models serve as powerful tools to comprehend the implications of IDH mutations in myeloid or T cell biology. Our research shed new light on the mechanisms by which mutations in *Idh1/2* and *Tet2* drive the development and progression of leukemias and lymphomas. Through a multifaceted approach conducted in our genetically engineered mouse models, we have identified mutation-specific and disease-specific effects. This innovative approach has led to significant basic research discoveries which can now be evaluated in patient samples. These findings may help to select patients and devise additional treatment strategies using existing and investigational therapies, which can then be translated to preclinical testing.

**Shortbio:** Dr. Julie Leca started her PhD in 2011 at Marseille's Cancerology Research Center (CRCM) under the supervision of Dr. Richard Tomasini. Dr. Tomasini's group studied the molecular dialogue between transformed pancreatic cells and components of the stroma. In 2016, Dr. Leca joined Pr. Tak Mak's lab at the Princess Margaret Cancer Center in Toronto, Canada. Dr. Leca's post-doctorate work focused on the different IDH mutations in the context of hematological diseases such as Angioimmunoblastic T-cell lymphomas (AITL) and Acute Myeloid Leukemias (AML). In October 2023, Dr. Leca returned to France and joined Dr. Veronique Maguer Satta's lab at Lyon's Cancerology Research Center (CRCL). Her team's work is dedicated to exploring the biology of stem cells (breast cancer or leukemia) and their interactions with their micro-environment, using their innovative and newly developed 3D model of the medullary niche.



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