

Sébastien Carréno

Principal Investigator, Cellular Mechanisms of Morphogenesis Research Unit, IRIC

Sébastien Carréno obtained his Ph.D. in Molecular Biology from Université Toulouse III in 2001. Following postdoctoral training under the supervision of David G. Drubin at the University of California, Berkeley, he joined François Payre's team in 2005 to continue his training at Université de Toulouse.

IRIC and University of Montreal finally recruited him in 2008 as a Principal Investigator and Professor in the Department of Pathology and Cell Biology. Since September of 2017, he has also occupied the position of Director, Academic Affairs at IRIC.

His laboratory in IRIC investigates the cellular mechanisms of morphogenesis during cell division and migration, with a specific focus on the crosstalk between phosphoinositides, actin filaments and microtubules.

The laboratory investigates how these molecules take part in reorganizing the cell cortex at various stages of the mitosis, as well as during cell migration. To do this, the group uses functional genomics, cell biology and high resolution microscopy techniques to observe, in real time, the molecular interactions that shape the cytoskeleton during those processes. By trying to understand how the cytoskeleton of the cells takes part in controlling cell division and motility, Sébastien Carréno and his team could open up new therapeutic avenues for cancer.

Sébastien Carréno's web page <https://www.irc.ca/en/research/principal-investigators/sebastien-carreno>