



The Department of Molecular, Cellular and Developmental Biology Seminar Series Presents



Philipp Voigt
Sir Henry Dale Fellow
Assistant Professor of Cell Biology
University of Edinburgh

“Nucleosomal Asymmetry Shapes Histone Mark Binding at Bivalent Domains”

Philipp Voigt received both his undergraduate and graduate degree in Biochemistry from Freie Universität Berlin, Germany. His PhD work focused on phosphoinositide 3-kinase signaling pathways in lymphocytes. In 2008, he joined the laboratory of Danny Reinberg at NYU School of Medicine, New York, for his postdoctoral studies, following his interest in the molecular mechanisms that regulate gene expression. There, he studied molecular mechanisms of Polycomb-mediated gene silencing using biochemical and biophysical approaches, revealing the existence of asymmetrically modified nucleosomes in chromatin. In November 2014, he moved to Edinburgh to set up his own lab at the Wellcome Trust Centre for Cell Biology as a Sir Henry Dale Fellow and ERC Starting Grant holder. The goal of his research is to determine how histone modifications function in mechanistic terms and how different systems of chromatin modifiers interact to regulate and fine-tune gene expression. Current work in the lab focuses on the interplay between the repressive histone mark H3 lysine 27 methylation and the active mark H3 lysine 4 trimethylation at bivalent domains in embryonic stem cells. These fundamental processes are crucial to embryonic development, but also to disease states such as cancer.

Wednesday, March 4, 2020

Yale Science Building O.C. Marsh Lecture Hall

260 Whitney Ave., New Haven

3:45pm Tea 4:00pm Seminar

Hosted by: Yannick Jacob

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For more information contact: laurie.tomei@yale.edu

