



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



Andrés Hidalgo
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Research

“Hungry macrophages of the heart”

My research interests have focused on the cellular and molecular mechanisms by which innate immune cells, and their hematopoietic precursors, contribute to organismal physiology and pathology. As a postdoctoral trainee I developed and used live imaging modalities to study acute inflammatory disease and discovered the receptors that mediate early neutrophil recruitment, and the signals that cause vascular occlusion in sickle cell disease. In my laboratory at CNIC we further developed live imaging technologies and applied them to the study of thrombo-inflammatory disease in several organs, including the lung and heart. We also discovered new functions for innate immune cells and demonstrated that circadian rhythms in the bone marrow are entrained in part by neutrophils entering this organ. We have identified immune circadian clockworks that control leukocyte migration, transcription and release of toxic mediators, and underlies circadian defense and inflammation. We have extended our analyses to tissue resident macrophages in multiple organs, including the heart, and used imaging to identify mechanisms of mitochondrial homeostasis.

Wednesday, November 11, 2020

4:00pm Zoom Seminar

<https://yale.zoom.us/j/99553124783>

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Webinar ID: 995 5312 4783

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Hosted by: Valerie Horsley

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