

Department of Cell Biology and Physiology Special Seminar

Alessandra Cambi

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“Organization and function of DC-SIGN nanodomains: from plasma membrane to endosomes”

DC-SIGN is an exquisite pathogen-recognition receptor expressed at the surface of antigen-presenting dendritic cells and involved in binding and uptake of several viruses, bacteria, fungi and parasites. Its well-defined organization in nanodomains is particularly relevant for binding to viruses and depends on an intact extracellular neck region. This talk will focus on the role of the neck region in assembling DC-SIGN nanodomains and determining the fate of internalized antigens.

Maria Garcia-Parajo

Institute of Photonic Sciences, Barcelona, Spain

“From nano to meso-scale organization of DC-SIGN: a relationship between large scale ordering and dynamics”

Our recent work, using a combination of superresolution and single molecule dynamic approaches, points to a direct correlation between the occurrence of transient confinement zones in the diffusion of DC-SIGN and its meso-scale spatial organization of DC-SIGN on the cell surface.

Thursday, February 7, 2013
1:00PM-2:00PM
124 Taylor Hall
Host: Ken Jacobson

