

CSI New Investigator Award

Congratulations / Félicitations



Dr. Bebhinn Treanor, *Associate Professor, Department of Biological Sciences and Department of Immunology, University of Toronto*

Bebhinn Treanor is an Associate Professor in the Department of Biological Sciences at University of Toronto Scarborough. Bebhinn's research is focused on the molecular mechanisms controlling the organization and dynamics of antigen receptors and the functional significance for lymphocyte activation through the development and implementation of cutting-edge optical microscopy. Bebhinn completed her PhD at Imperial College London under the supervision of Dr. Daniel M. Davis, where she visualized the spatial confinement of phosphorylated NK cell inhibitory receptors to 'hotspots', providing a new framework for understanding how NK cells integrate activating and inhibitory signals. She then went on to complete her postdoctoral work in the laboratory of Dr. Facundo Batista at the London Research Institute of Cancer Research UK, where she identified that the cortical actin cytoskeleton plays a critical role in controlling B cell receptor signaling. Her laboratory at the University of Toronto interrogates B cell activation at the level of single molecules within individual cells, and they have recently identified two novel regulators of B cell activation; the glycan-binding protein galectin-9, and the channel-kinase, TRPM7. In 2014, Bebhinn was awarded the CIHR Bhagirath Singh Early Career Award in Infection and Immunity, and in 2016, a Tier 2 Canada Research Chair in Spatially-resolved Biochemistry.