

CSI 2023 New Investigator Award Congratulations / Félicitations



Dr. Daniela F. Quail, *Assistant Professor, Rosalind and Morris Goodman Cancer Institute and Departments of Physiology and Experimental Medicine at McGill University*

Daniela F. Quail, Ph.D., is an Assistant Professor at the Rosalind and Morris Goodman Cancer Institute and the Departments of Physiology and Experimental Medicine at McGill University (Montréal, Canada). She received a Ph.D. from the University of Western Ontario (London, Canada) where she studied the role of embryonic morphogens on microenvironmental regulation of cancer stemness and metastasis. She later completed a postdoctoral fellowship at Memorial Sloan Kettering Cancer Center (NY, USA). Her postdoctoral research was focused on how the immune microenvironment impacts cancer progression and prognosis, with particular interest in the myeloid compartment. She contributed to a body of research characterizing the effects of the innate immune system in cancer, including the role of macrophages in brain tumors, and neutrophils and monocytes in breast cancer metastasis. Since opening her lab at McGill, Dr. Quail served as Director of the Single Cell and Imaging Mass Cytometry Platform (2017-2021) where she developed multiplex imaging protocols to characterize the tumor immune microenvironment. She was the Early Career Representative for the American Association for Cancer Research Tumor Microenvironment Working Group (2017), and currently holds a Tier II Canada Research Chair in Tumor Microenvironment research (2018-2023). Currently, the Quail lab studies cancer immunology through 3 major themes, including (1) the impact of chronic inflammatory conditions such as obesity on cancer progression and immunotherapy; (2) the role of diet and energy balance in shaping the immunological response to cancer; and (3) tissue-specific influences of the tumor microenvironment. By addressing these research gaps, her team hopes to contribute to new tools and therapies in immuno-oncology.