CCR – Lecture Series

Friday, November 27th, 2026, 10:30 AM

Seth B. Coffelt
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The multifaceted roles of γδ T cells in colon cancer

Understanding how immune cells impact cancer progression and metastasis is the major focus of the Coffelt lab. Specifically, we are interested in the mechanisms by which γδ T cells participate in tumour evolution: from early stages of initiation to late stages of cancer spread. γδ T cells encompass several phenotypically and functionally different subsets, including those that traffic between organs and lymph nodes as well as those that remain fixed within specific organs. We and others have shown that these γδ T cell subsets can be either tumour-promoting or tumour-opposing. Recently, we have focused our efforts on γδ T cells in colon cancer, asking questions about their behaviour during tumour evolution. Using genetically engineered mouse models of colon cancer, we have found that gut-resident Vγ7 cells participate in cancer immunosurveillance, but are excluded from the tumour microenvironment. Current efforts are focused on understanding how pro-tumour γδ T cells, including Vγ4 and Vγ6 cells, play a role in tumour initiation. Acquiring this knowledge may help in the design of new immunotherapies for patients with colon cancer.

Venue: Lecture Hall B1, Borschkegasse 4a
Time: Friday, November 27th, 2026 at 10:30AM
Host: Saverio Tardito

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