

# CCR – Lecture Series

Monday, April 29<sup>th</sup> 2024, 1pm

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## **Dissecting and Rewiring Immune Cell Heterogeneity in the Cancer Ecosystem: Myeloid Cells at Play**

Tumors growing in metabolically-challenged environments are particularly reliant on cancer cells and immune cell metabolic cross-talk to satisfy their high metabolic needs. However, the intricacies of this metabolic interplay and the consequences on immune cell subsets diversity and function remain largely unexplored. We interrogated the heterogeneity of the tumor microenvironment using multi-omics analyses in preclinical brain and liver cancer mouse models and patient datasets and identified metabolically-rewired tumor-associated macrophage (TAM), myeloid cells and regulatory T cell subpopulations fueling cancer progression and resistance to standard of care and immunotherapies. Our work reveal the dynamic evolution of specific immune cell compartment and resist to therapies, with potential for exploiting these vulnerabilities therapeutically.

**Venue:** Lecture Hall B2, Borschkegasse 4a

**Time:** Monday, March 29<sup>th</sup> 2024, 1pm

**Host:** Juliane Winkler

