

CCR – Lecture Series

Monday, May 12nd 2025, 11:00 AM

Lisa Sevenich

University of Tübingen

Harness metabolic checkpoints for improved immunotherapy against brain metastasis

Brain metastases represent an unmet clinical need in high demand of the development of novel and effective therapy options. We seek to develop immune-targeted therapies specifically tailored to overcome tissue-specific limitations to treatment success. We employ a broad range of ex vivo and in vivo experimental brain metastasis models as well as patient samples to characterize the highly specialized tumor immune microenvironment in brain metastasis and use multiomics approaches together with mechanistic studies to dissect disease-associated functions of immune subpopulations. This insight provides scientific rationale for combination trials. In my talk, I will summarize our findings on challenges and opportunities of tumor-associated macrophage therapy and T cell-directed immunotherapy in combination with radiotherapy. A particular focus will be directed towards immunometabolism and immunometabolism-targeting approaches as novel therapeutic avenues that allow simultaneous modulation of the myeloid and lymphoid compartment and thereby prevent the rapid induction of adaptive resistance mechanisms that blunt the reactivation of anti-cancer immunity.

Venue: Lecture Hall B2, Borschkegasse 4a

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Host: Juliane Winkler



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MEDICAL UNIVERSITY OF VIENNA