

EI-COV20-009 - Charakterisierung der zellulären Immunantwort auf SARS-CoV-2-Infektionen

Abstract

Innate and adaptive immune responses during incubation and non-severe phases of SARS-CoV-2 infections are potentially decisive for disease progression and severity. Detailed immunophenotyping studies of unfolding SARS-CoV-2 infections are still missing. The strong focus of our laboratory on immune reconstitution, detection of virus-specific T-cells and immunotherapies enables us to start immediately with i) deep phenotyping of several T- and B-cell subtypes by high-dimensional flow cytometry and single cell transcriptomics ii) detection of CoV-2-specific T-cells (via soon available peptide pools) and iii) identification of immunodominant viral epitopes and SARS-CoV-2-specific T-cell receptor clonotypes. These immune parameters are vital to predict disease outcome and pave the way for new therapeutic interventions.

Keywords:

Covid19 Datenerhebung

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Further links to the persons involved and to the project can be found under

<https://www.wwf.at/funding/programmes/ei/EI-COV20-009/>