

## Innate and adaptive immunity in viral infections

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**Project description:** Innate and adaptive immune responses operate co-operatively during viral infections. The project intends to analyze intracellular signaling pathways activated or inhibited during viral infections in human primary leukocyte and stable cell line models systems. The primary targets viruses include influenza, respiratory syncytial, Ebola Zika viruses and in our analyses we used cloned viral genes (e.g. Ebola, Zika) or infectious viruses to analyze their effect on innate immunity. We also genetically characterize respiratory viruses, produce recombinant viral antigens for diagnostic and research purposes and develop methods (e.g. microarray) for viral antigen and antibody detection for better diagnostics and seroepidemiological and vaccine studies.

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