



Single Cell Research in Progress Seminar Series

“Longitudinal profiling reveals differential immune responses in asymptomatic or severe infection with West Nile Virus”

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Zoom: <https://zoom.us/j/93100138305?pwd=U0E4UVZkdzRhTjVBSSswNzNGWXFFUT09>

Wednesday, May 12, 2021

12:00 p.m. to 1:00 p.m. Seminar



Dr. Ho-Joon Lee

Infection with West Nile Virus (WNV) can cause a wide range of patient responses from completely asymptomatic to mild illness with fever or severe cases with encephalitis and sometimes death. To identify cellular and molecular signatures distinguishing such responses, we profiled these cohorts of patients from acute WNV infection through convalescence (3 months and 1 year). We conducted high resolution paired single cell analysis of protein markers from whole blood by multiparameter CyTOF and single cell transcriptional profiles from peripheral blood mononuclear cells using Seq-Well. Our study highlights the power of multiple cell-type and cell-state-specific analyses for defining pathways relevant for successful viral clearance and recovery.



Dr. Yujiao Zhao

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