



Ross Jones

Dr. Ross D. Jones is a postdoctoral fellow at the University of British Columbia, working in Professor Peter Zandstra's Stem Cell Bioengineering Lab. Dr. Jones' research combines developmental niche engineering with synthetic biology to produce allogeneic therapeutic immune cells in vitro from pluripotent stem cells. The main goals are to produce TCR-/CAR-T cells with accurate cytotoxic (CD8+) and helper (CD4+) phenotypes at high-yield in therapeutically relevant (fully-defined and feeder-free) conditions. Dr. Jones earned his PhD at MIT, working under both Professors Ron Weiss and Domitilla Del Vecchio. There, he studied context dependence of heterologous gene expression in mammalian cells, focusing on how competition for shared gene expression resources among heterologous genes affects their expression levels. He further applied principles form control theory to implement genetic circuits that can robustly control gene expression levels across varying intracellular contexts.

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