

Carl de Boer



Carl is an Assistant Professor in the School of Biomedical Engineering at the University of British Columbia. De Boer's group studies regulation of the genome. A current focus is on developing experimental techniques for measuring how cells interpret regulatory DNA sequences (e.g. promoters and enhancers) in high throughput, using Pluripotent Stem Cells (PSCs) and PSC-derived cells as model systems. De Boer's group also uses Bioinformatic and Machine Learning techniques to learn complex models of gene regulation using high-throughput omics data. An ultimate goal is to learn how every cell type in the human body interprets genomic sequence so that we can better understand how changes in the genomic sequence affect its function and design new DNA sequences with desirable properties.

