

# CV

Seung J. Kim

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## Education

### PhD Biochemistry

Western University 2016-2022

### BSc Hon. Specialization in Biochemistry of Infection and Immunity

Western University 2012-2016

## Bioinformatics competencies

command line (proficient):

- tools: bowtie2, bwa, STAR, salmon, kallisto, fastqc, fastp, featureCounts, htseq-count, deeptools
- workflow: snakemake, nextflow
- HPC: linux, slurm, globus

R (proficient):

- differential gene expression analysis: edgeR, DESeq2, limma, voom, standR
- data wrangling and visualization: ggplot2, ComplexHeatmap, tidyverse
- interactivity: shiny

python (beginner):

- numpy, pandas, matplotlib, scanpy, squidpy

## Peer reviewed publications

**Kim, S. J.**, Cecchini, M.J., Woo, E., Jayawardena, N., Passos, D. T., Dick, F. A. & Mura, M. Spatially resolved gene expression profiles in fibrosing interstitial lung diseases. Thorax (under review) (2024).

**Kim, S. J.**, Kiser, P. K., Asfaha, S., DeKoter, R. P. & Dick, F. A. EZH2 inhibition stimulates repetitive element expression and viral mimicry in resting splenic B cells. *The EMBO Journal* 42, e114462 (2023).

**Kim, S. J.**, MacDonald, J. I. & Dick, F. A. Phosphorylation of the RB C-terminus regulates condensin II release from chromatin. *Journal of Biological Chemistry* 296, (2021).

**Kim, S. J.**, Asfaha, S. & Dick, F. A. CDK4 inhibitors thwart immunity by inhibiting phospho-RB-NF- $\kappa$ B complexes. *Mol Cell* 73, 1-2 (2019).

Ishak, C. A. et al. An RB-EZH2 complex mediates silencing of repetitive DNA sequences. *Mol Cell* 64, 1074-1087 (2016).

## **Presentations**

**Kim, S. J.**, Kiser, P. K., DeKoter, R. P. & Dick, F. A. Elucidating the mechanism behind EZH2 inhibition and immune activation. Oncology Research & Education Day. London ON, Canada 2023

**Kim, S. J.**, Kiser, P. K., DeKoter, R. P. & Dick, F. A. Elucidating the mechanism behind EZH2 inhibition and immune activation. Oncology Research & Education Day. London ON, Canada 2022

**Kim, S. J.** & Dick, F.A. Elucidating the mechanism behind EZH2 inhibition and anti-viral immune signaling. Oncology Research & Education Day. London ON, Canada 2021

**Kim, S. J.**, Ishak, C.A. & Dick, F.A. Pharmacological inhibition of EZH2 activates anti-viral immunity. London Immuno-Oncology Symposium. London ON, Canada 2020

**Kim, S. J.**, Ishak, C.A. & Dick, F.A. Pharmacological inhibition of E1A-insensitive pRB-E2F1-EZH2 complex activates anti-viral immunity. ICGEB DNA Tumour Virus Meeting. Trieste, Italy. 2019

## **Awards**

Dr. William Zaharia Award 2024

Ontario Graduate Scholarship 2020

Howard Hughes Medical Institute Stipend 2018

Cancer Research and Technology Transfer Scholarship 2017

## **Academic experiences**

Advanced Sequencing Technologies and Applications.  
Cold Spring Harbor Laboratory 2018

## **References**

Available upon request