

# Seung June Kim, Ph.D.


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🐙 @kimsjune

🌐 <http://kimsjune.github.io/>


## Employment History


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2023 – . . . . .  **Research associate., Lawson Health Research Institute**  
Interstitial Lung Disease lab, London Health Sciences Center.  
London ON, Canada.  
Supervisor: Dr. Marco Mura

## Education





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2016 – 2022  **Ph.D., Western University** Biochemistry  
Supervisor: Dr. Fred Dick  
Thesis title: *Chromatin regulation by RB-interacting proteins in cellular immune functions*

2012 – 2016  **Hon. B.Sc., Western University** Biochemistry of Infection and Immunity  
Supervisor: Dr. Fred Dick  
Thesis title *Phosphorylation of RB C-terminus upon TCR cross-linking in Jurkat T cells*

## Publications

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- 1 **S. J. Kim**, M. Cecchini, E. Woo, *et al.*, “Digital spatial profiling of fibrosing interstitial lung diseases,” *In preparation*, 2024.
- 2 **S. J. Kim**, P. K. Kiser, S. Asfaha, R. P. DeKoter, and F. A. Dick, “EZH2 inhibition stimulates repetitive element expression and viral mimicry in resting splenic B cells,” *The EMBO Journal*, vol. 42, e114462, Dec. 11, 2023.  DOI: 10.15252/embj.2023114462.
- 3 **S. J. Kim**, J. I. MacDonald, and F. A. Dick, “Phosphorylation of the RB C-terminus regulates condensin II release from chromatin,” *Journal of Biological Chemistry*, vol. 296, p. 100108, Jan. 2021.  DOI: 10.1074/jbc.RA120.016511.
- 4 **S. J. Kim**, S. Asfaha, and F. A. Dick, “CDK4 inhibitors thwart immunity by inhibiting phospho-RB-NF- $\kappa$ B complexes,” *Molecular Cell*, vol. 73, pp. 1–2, Jan. 3, 2019.  DOI: 10.1016/j.molcel.2018.12.012.
- 5 C. A. Ishak, A. E. Marshall, D. T. Passos, *et al.*, “An RB-EZH2 complex mediates silencing of repetitive DNA sequences,” *Molecular Cell*, vol. 64, pp. 1074–1087, Dec. 2016.  DOI: 10.1016/j.molcel.2016.10.021.

## Presentations

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- 1 **S. J. Kim**, M. Cecchini, E. Woo, *et al.*, “Digital spatial profiling of fibrosing interstitial lung diseases,” American Thoracic Society, San Diego, USA, May 2024.
- 2 **S. J. Kim**, M. Cecchini, E. Woo, *et al.*, “Spatially resolved gene expression profiles in fibrosing interstitial lung diseases,” Department of Medicine Research Day, London, ON, Canada, May 2024.
- 3 **S. J. Kim**, P. K. Kiser, R. P. DeKoter, and F. A. Dick, “Elucidating the mechanism behind EZH2 inhibition and immune activation,” Oncology Research and Education Day, London, ON, Canada, Jun. 2023.
- 4 **S. J. Kim**, P. K. Kiser, R. P. DeKoter, and F. A. Dick, “Elucidating the mechanism behind EZH2 inhibition and immune activation,” Oncology Research and Education Day, London, ON, Canada, Jun. 2022.
- 5 **S. J. Kim** and F. A. Dick, “Elucidating the mechanism behind EZH2 inhibition and anti-viral immune signaling,” Oncology Research and Education Day, London, ON, Canada, Jun. 2021.
- 6 **S. J. Kim**, C. A. Ishak, and F. A. Dick, “Pharmacological inhibition of EZH2 activates anti-viral immunity,” Immuno-Oncology Symposium, London, ON, Canada, Feb. 2020.

- 7 **S. J. Kim**, C. A. Ishak, and F. A. Dick, "Pharmacological inhibition of E1A-insensitive pRB-E2F1-EZH2 complex activates anti-viral immunity," Oncology Research and Education Day, London, ON, Canada, Jun. 2019.
- 8 **S. J. Kim**, C. A. Ishak, and F. A. Dick, "Pharmacological inhibition of E1A-insensitive pRB-E2F1-EZH2 complex activates anti-viral immunity," ICGEB DNA Tumour Virus Meeting, Trieste, Italy, Jul. 2019.
- 9 **S. J. Kim**, C. Ishak, and F. Dick, "Pharmacological inhibition of the pRB-E2F1-EZH2 complex to modulate the innate immune system," London Health Research Day, London, ON, Canada, May 2019.
- 10 **S. J. Kim**, C. A. Ishak, and F. A. Dick, "Investigating the role of repetitive DNA expression in immune modulation.," Oncology Research and Education Day, London, ON, Canada, Jun. 2018.

## Skills

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Coding	📌 R (proficient), Python (beginner)
Web Dev	📌 R Shiny, Docker, nginx
Bioinformatics	📌 bulk tissue/spatial transcriptomics (Nanostring and Visium), differential gene expression (DESeq2, edgeR, limma), PCA/UMAP dimensionality reduction, ligand-receptor/cell-cell interaction inference, Illumina Infinium Methylation profiling, ChIP-seq analysis (MACS2, deepTools)
Misc.	📌 Nextflow (proficient), HPC (proficient), Linux systems (proficient), AWS (beginner), github (intermediate)
Languages	📌 Fluent in English and Korean

## Honours and Awards

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2024	📌 <b>Volunteer Service Award</b> 🔗	Government of Ontario
	📌 <b>Dr. William Zaharia Award</b> 🔗	Western University
2021	📌 <b>Ontario Graduate Scholarship</b> 🔗	Government of Ontario
2018	📌 <b>HHMI Stipend</b>	Howard Hughes Medical Institute
2017	📌 <b>Cancer Research and Technology Transfer Scholarship</b>	Western University
2016-2022	📌 <b>Western Graduate Research Scholarship</b>	Western University
2012-2016	📌 <b>Dean's Honour List</b>	Western University

## Academic experience

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2023	📌 <b>RNA-seq trainee workshop host/instructor</b>	Victoria Research Labs, London Regional Cancer Program
2020	📌 <b>News &amp; Views writer</b> 🔗	London Research Information Outreach Team
2018-2021	📌 <b>Graduate Teaching Assistant</b>	Department of Biochemistry, Western University
2018	📌 <b>Advanced sequencing technologies and applications course</b> 🔗	Cold Spring Harbor Laboratory, NY, USA
2017, 2021	📌 <b>Genome track viewer workshop TA/instructor</b>	Let's Talk Cancer

## References

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Available on Request