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| **Name** | Seung-Hwan Lee |
| **Current Position & Affiliation** | Professor, University of Ottawa, Canada |
| **Country** | Canada |
| **Major Field** | Immunology, Immunotherapy, Multiple Myeloma |

## Educational Background

Ph. D. University of Ottawa, Immunology, Canada, 2004
M. Sc. Chonbuk National University, Molecular Biology, South Korea, 1995
B. Sc. Chonbuk National University, Molecular Biology, South Korea, 1993

## Professional Experience

2022- Full Professor, Department of Biochemistry, Microbiology and Immunology, University of Ottawa, Canada
2017-22 Associate Professor, Department of Biochemistry, Microbiology and Immunology, University of Ottawa, Canada
2011-17 Assistant Professor, Department of Biochemistry, Microbiology and Immunology, University of Ottawa, Canada
2009-11 Investigator, Department of Molecular Microbiology and Immunology, Brown University, USA
2004-09 Post-Doctoral Fellow, Department of Molecular Microbiology and Immunology, Brown University, USA
1997-98 Research Scientist, Algene Biotechnologies, Canada

## Other Experience and Professional Memberships

2011-16 Canada Research Chair II

Memberships:
2024- Ottawa Institute of Systems Biology, University of Ottawa
2018- The Canadian Natural Killer Cell Consortium
2015- American Association of Immunologists
2014- Canadian Network on Hepatitis C (CanHepC)
2013- Centre for Infection, Immunity and Inflammation, University of Ottawa
2011- Canadian Society of Immunologists
2009- The Society for Natural Immunity

## Main Scientific Publications

Dong-Hyeon Jo, Shelby Kaczmarek, Abrar Ul Haq Khan, Jannat Pervin, Diana A Clark, Lisheng Wang, Scott McComb, Alissa Visram, and Seung-Hwan Lee. Entinostat, a histone deacetylase inhibitor, enhances CAR-NK cell anti-tumor activity by sustaining CAR expression. Frontiers in Immunology, 2025.

Bryan Marr, Donghyeon Jo, Mihue Jang and Seung-Hwan Lee. Cytokines in Focus: IL-2 and IL-15 in Natural Killer Adoptive Cell Cancer Immunotherapy. Immune Network, 2025.

Donald J. Bastin, Marisa K. Kilgour, Risa Shorr, Elham Sabri, Aurélien Delluc, Michele Ardolino, Scott McComb, Seung-Hwan Lee, David Allan, Tim Ramsay, and Alissa Visram. Efficacy of Chimeric Antigen Receptor Engineered Natural Killer Cells in the Treatment of Hematologic Malignancies: A Systematic Review and Meta-Analysis of Preclinical Studies, Cytotherapy. 24: 00928-9, 2024.

Marisa K. Kilgour, Donald J. Bastin, Seung-Hwan Lee*, Michele Ardolino*, Scott McComb*, and Alissa Visram*. Advancements in CAR-NK therapy: lessons to be learned from CAR-T therapy. *Co-corresponding authors. Frontiers in Immunology, 2023.

Abrar Ul Haq Khan, Alaa Kassim Ali, Donghyeon Jo, Claire Fong-McMaster, Saeedah Musaed Almutairi, Lisheng Wang, Subash Sad, Mary-Ellen Harper and Seung-Hwan Lee. TNF?/TNFR2 axis mediates natural killer cell proliferation by enhancing the glycolytic plasticity. Cellular Molecular Immunology, 2023. doi: 10.1038/s41423-023-01071-4

Dong-Hyeon Jo, Shelby Kaczmarek, Oksu Shin, Lisheng Wang, Scott McComb and Seung-Hwan Lee. Simultaneous engineering of natural killer cells for CAR transgenesis and CRISPR-Cas9 knockout using virus-like particles. Molecular Therapy - Methods & Clinical Development, doi: https://doi.org/10.1016/j.omtm.2023.03.006 2023.