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Cancer Center

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IMMUNOLOGY PROGRAM

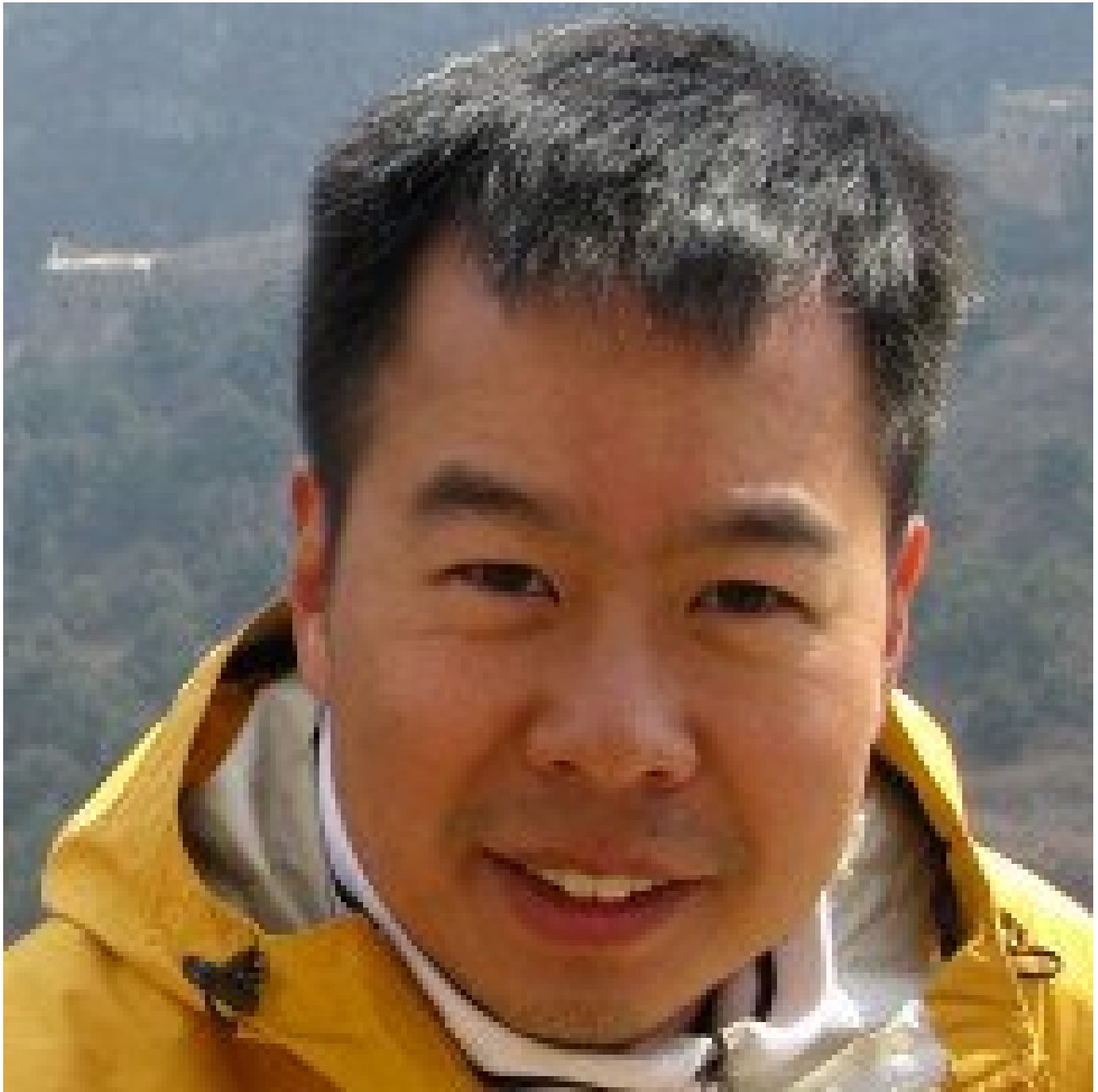
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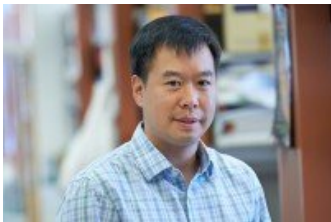
Joseph Sun, PhD

The immune system responds to viral infections by introducing a complex interplay of immune cells and factors, whose goal is to eliminate the intruding pathogen. One such effector cell in the antiviral response is the Natural Killer (NK) cell, which secretes inflammatory cytokines and directly kills infected cells. The focus of our research is aimed at defining the signals that NK cells require to mount an effective immune response against pathogens. We are also exploring the regulatory mechanisms keeping NK cells in check, thereby safeguarding against potential autoimmunity.

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Featured News



[At Work: Immunologist Joseph Sun](#)

Immunologist Joseph Sun is an investigator in the Sloan Kettering Institute’s Immunology Program. Dr. Sun’s research is focused on natural killer cells, a part of what is called the innate immune system.

FEATURE



[Meet the Unsung Immune Cell that Could Change Immunotherapy](#)

A lesser-known immune cell is suddenly getting more attention in the field of cancer immunology.

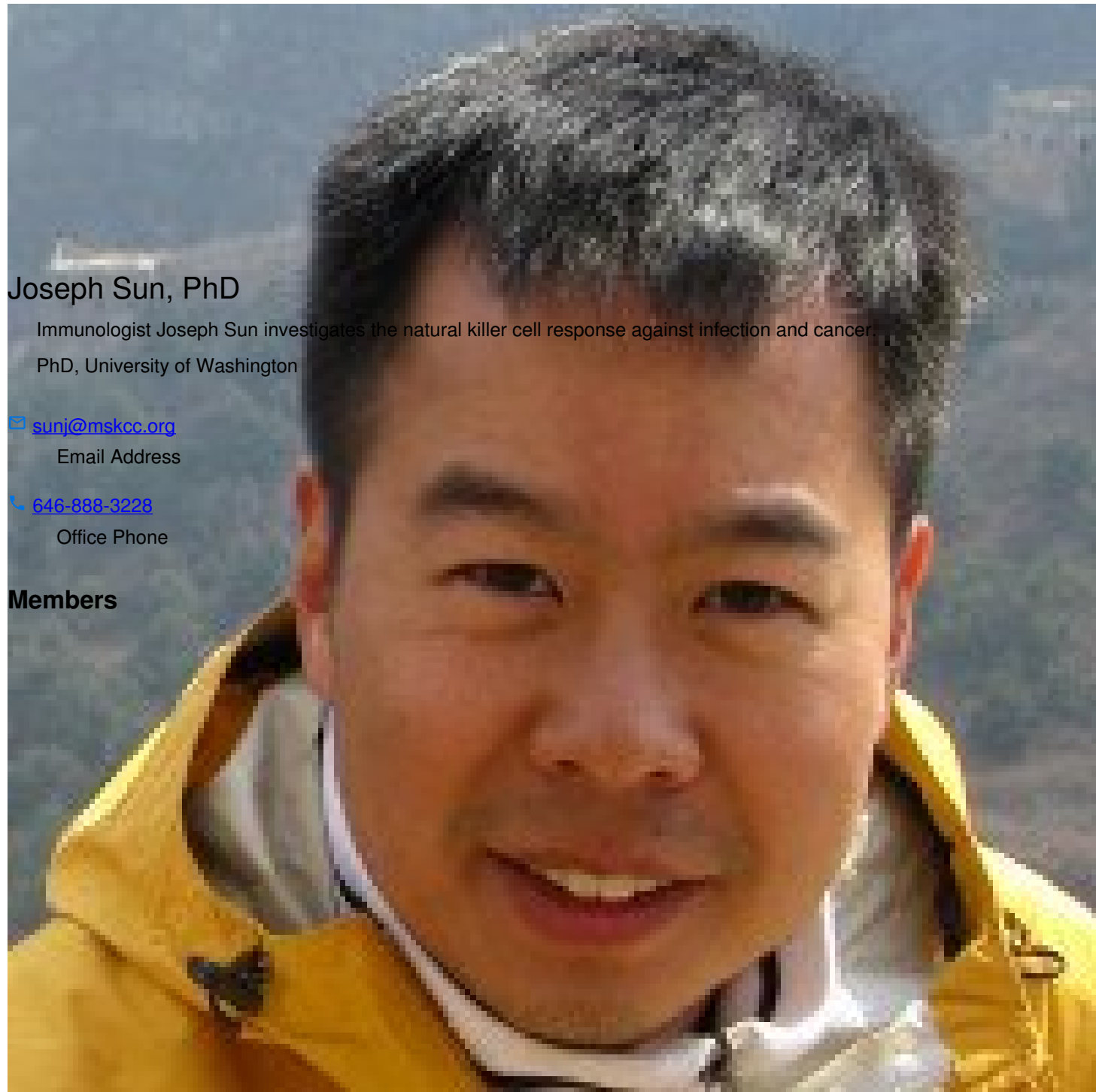
Publications Highlights

Lau CM, Adams NM, Geary CD, Weizman O, Rapp M, Pritykin Y, Leslie CS, Sun JC. 2018. Epigenetic control of innate and adaptive immune memory. *Nat Immunol.* 19:963-972.

Adams NM, Lau CM, Fan X, Rapp M, Weizman O, Geary CD, Diaz-Salazar C, Sun JC. 2018. Transcription factor IRF8 orchestrates the adaptive natural killer cell response. *Immunity.* 48:1172-1182.


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People



Joseph Sun, PhD

Immunologist Joseph Sun investigates the natural killer cell response against infection and cancer.
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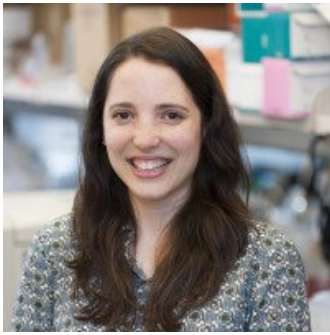
Simon Grassmann
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Hyunu Kim
Graduate Student



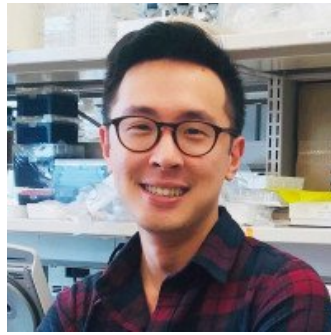
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Endi
Santosa
Graduate Student



Jack Sauter
Research Technician



Joseph Sun
Member



Jennifer
Zhang
Research Technician

Lab Alumni
+

Lab Affiliations
+

Achievements

Weill Cornell Graduate School Outstanding Teaching & Mentoring Award (2022)

American Cancer Society Research Scholar (2017)
Burroughs Wellcome Fund Investigator in Infectious Disease (2016)
Boyer Young Investigator Award for Basic Research (2015)
Geoffrey Beene Junior Faculty Chair (2014)

Read more

+

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To learn more about compensation and benefits for postdoctoral researchers at MSK, please visit [Resources for Postdocs](#)

Career Opportunities

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Disclosures

Doctors and faculty members often work with pharmaceutical, device, biotechnology, and life sciences companies, and other organizations outside of MSK, to find safe and effective cancer treatments, to improve patient care, and to educate the health care community.

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Joseph Sun discloses the following relationships and financial interests:

No disclosures meeting criteria for time period

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