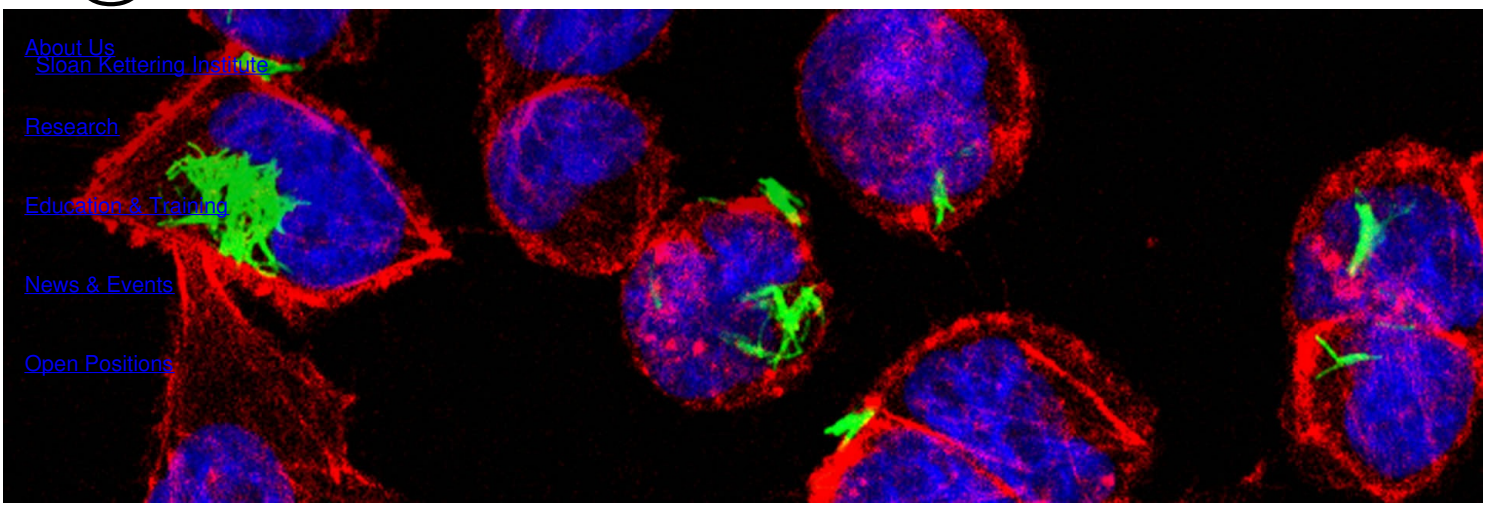

Immunology Program

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Immunology Program at Sloan Kettering Institute

Immunology is one of the most fruitful areas of contemporary biomedical science. Insights from immunology have infused medicine with a renewed sense of optimism about the treatment of many stubborn diseases, such as cancer and autoimmunity.

SKI's Immunology Program is broad in scope and comprises both basic and translational research. Our scientists are world leaders in the study of innate and adaptive immunity, host-microbiota interactions, and mechanisms of immune regulation.

A strength of the program is the ability to translate laboratory findings into effective clinical applications. Scientists from our program have played a central role in the development of several types of immunotherapy that are currently transforming cancer care, including checkpoint blockade and CAR T cell therapy.
Read more +

Immunology Program Chair Sasha Rudensky with frequent collaborator Dana Pe'er, Chair of the Computational & Systems Biology Program.

Our Faculty

- Alexander Rudensky, PhD
  Chair, Immunology Program
  Immunology Program Chair Alexander Rudensky focuses on immunological tolerance and the differentiation and function of T cells.
- Jayanta Chaudhuri, PhD
  Immunologist Jayanta Chaudhuri studies the mechanisms of immunoglobulin gene diversification.
- Gretchen Diehl, PhD
  The Diehl lab studies how the microbiota and other exogenous factors regulate development and function of the intestinal immune system.
- Frederic Geissmann, MD, PhD
  My research is focused on cellular and molecular mechanisms that control the differentiation, maintenance, and physiological functions of macrophages and monocytes and their roles in tissue homeostasis and disease processes.
- Alexander Gitlin, MD, PhD
  The Gitlin Lab studies the molecular and cellular mechanisms underlying inflammatory cell signaling in health and disease.
- Michael S. Glickman, MD
  Physician-scientist Michael Glickman investigates the physiology and pathogenic mechanisms of mycobacteria, including the use of mycobacteria as bacterial cancer therapies.
- Morgan Huse, PhD
  Immunologist Morgan Huse studies the structure and function of immune cell-cell interactions.
- Ming Li, PhD
  Immunologist Ming Li studies mechanisms of immune regulation, and their relevance to diseases including cancer.
- Ivan Maillard, MD, PhD
  New roles for Notch signaling in the immune system.
- Justin Perry, PhD
  Immunologist Justin Perry investigates homeostatic apoptotic cell clearance and how this process is exploited during cancer development and progression.
- Andrea Schietinger, PhD
  Cancer Immunologist Andrea Schietinger investigates immune responses to cancer, molecular mechanisms underlying tumor-induced T cell dysfunction, and new approaches for cancer immunotherapy.
- Joseph Sun, PhD
  Immunologist Joseph Sun investigates the natural killer cell response against infection and cancer.

Joint Appointees

- Katharine C. Hsu, MD, PhD
  Physician-scientist Katharine Hsu studies the biology of human natural killer cells and how they contribute to disease processes.

Emeritus

- Bo Dupont, MD, PhD
- Ulrich Hammerling, PhD

Collaborations & Resources

SKI offers a wide array of core facilities and other technologies, as well as significant opportunity for collaboration. Members of the Immunology Program derive particular benefit from close ties to the following:

- Computational & Systems Biology Program
- Ludwig Center for Cancer Immunotherapy
- Center for Cell Engineering

Latest News

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Seminars & Events

View events and symposia sponsored by the Immunology Program.

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