

IMMU 101: Introduction to Cancer Biology

The six Hallmarks of Cancer were first presented by Douglas Hanahan and Robert Weinberg in 2000 to organize the complexity of cancer into broader principles based on function. In 2011, the Hallmarks of Cancer were updated to ten to include additional hallmarks based on advances in research in the role of the tumor microenvironment in carcinogenesis. This course will examine each of the ten Hallmarks of Cancer, going into detail about the biological functions and major signaling pathways of each, as well as mechanisms to target them. Overall, an introduction to the hallmarks of cancer will provide an excellent baseline of knowledge about cancer characteristics and why they are targeted for therapy.

Learning Objectives

- Describe how the hallmarks of cancer contribute to the abnormality of cancer.
- Compare different therapeutic options targeting various hallmarks of cancer.
- Explain why targeting multiple hallmarks has therapeutic benefit.

Credits: 1

Class Type: Graduate Course

Program: Immunology and Microbiology

Availability May 2022

Session Intersession