

# The Molecular Biology of Cancer

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MBB 446



An examination of the molecular mechanisms that contribute to tumor formation, the hallmarks of cancer and their relationship to therapeutic strategies.

## Topics

- Hallmarks of cancer
- Cancer progression and metastasis
- Cancer research origins
- Microbes and cancer
- Oncogenes and tumor suppressors
- p53 and cell death
- Autophagy and cell survival
- Epigenetics and cancer
- Synthetic lethality strategies in cancer therapy
- Clonal evolution and cancer stem cells
- Biomarkers
- Drug development and clinical trials
- Cancer immunology
- Personalized medicine

## INSTRUCTOR:

Sharon Gorski ~ Outdoor enthusiast (hiking, kayaking)

