

## IMMUNOLOGY & CANCER BIOLOGY

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### 1. Remembering:

- Recall the fundamental concepts of immunology and cancer biology
- Identify key immunological processes and their significance in cancer progression
- Recognize the stages of carcinogenesis and the role of the immune system in tumor development

### 2. Understanding:

- Explain the mechanisms underlying the immune response to cancer cells
- Differentiate between innate and adaptive immune responses in cancer immunology
- Comprehend the role of immune checkpoints in cancer immunotherapy

### 3. Applying:

- Apply immunological techniques to study cancer progression and treatment
- Analyze experimental data related to immunological responses in cancer biology
- Design experiments to investigate the impact of immune modulation on cancer development

### 4. Analyzing:

- Evaluate the interactions between the immune system and tumor microenvironment
- Critically assess the effectiveness of current cancer immunotherapies
- Compare and contrast different immunological approaches for cancer treatment

### 5. Evaluating:

- Assess the implications of immunological processes in tumor evasion and immune escape mechanisms
- Evaluate the significance of tumor immunosurveillance in cancer prevention
- Critique emerging therapies targeting immune checkpoints in cancer

### 6. Creating:

- Develop novel strategies for enhancing the anti-tumor immune response
- Design personalized immunotherapeutic approaches for specific cancer types
- Propose innovative research directions in the field of cancer immunology for improved clinical outcomes.

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