

Cancer Biology Quiz PDF

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Which treatment uses high-energy particles to destroy cancer cells?

- Chemotherapy
- Immunotherapy
- Radiation therapy
- Surgery

Which type of cancer originates in the bone or soft tissues?

- Carcinoma
- Sarcoma
- Leukemia
- Lymphoma

How does immunotherapy differ from traditional cancer treatments like chemotherapy and radiation?

What are the challenges and benefits of implementing personalized medicine in cancer treatment?

Describe the role of oncogenes in the development of cancer.

What is the primary characteristic of cancer cells?

- Controlled cell division
- Uncontrolled cell division
- Decreased cell division
- Cell death

What are the ethical considerations involved in conducting clinical trials for new cancer treatments?

Discuss the impact of genetic predisposition on cancer risk and prevention strategies.

Which factors are considered lifestyle and environmental risk factors for cancer? (Select all that apply)

- Smoking
- High-fat diet
- Radiation exposure
- Genetic mutations

Which of the following are common types of genetic mutations involved in cancer? (Select all that apply)

- Point mutations
- Deletions
- Insertions
- Translocations

Which screening method is commonly used for early detection of breast cancer?

- Colonoscopy
- MRI
- Mammography
- Biopsy

What is the primary purpose of angiogenesis in cancer?

- To spread cancer cells
- To provide nutrients to tumors
- To destroy cancer cells
- To activate immune response

Which of the following are common side effects of chemotherapy? (Select all that apply)

- Hair loss

- Increased appetite
- Nausea
- Immunosuppression

What does the 'M' in the TNMG cancer staging system stand for?

- Metastasization
- Mutation
- Mitosis
- Mortality

Which gene is commonly known as the 'guardian of the genome'?

- RAS
- MYC
- p53
- BRCA1

Which of the following are characteristics of malignant tumors? (Select all that apply)

- Slow growth
- Invasive
- Non-invasive
- Metastatic potential

Which of the following is a targeted therapy drug for breast cancer?

- Herceptin
- Tamoxifen
- Methotrexate
- Cisplatin

Explain the process of metastasis and its significance in cancer progression.

Which of the following are recent advances in cancer treatment? (Select all that apply)

- CRISPR technology
- Radiation therapy
- CAR-T cell therapy
- Personalized medicine

Which of the following are roles of tumor suppressor genes? (Select all that apply)

- Promote cell division
- Repair DNA damage
- Induce apoptosis
- Inhibit cell cycle progression