

molecular and cellular mechanisms pdf

x RET, the receptor for the glial cell line-derived neurotrophic factor (GDNF) family ligands, is the most frequently mutated gene in congenital aganglionic megacolon or Hirschsprung's disease (HSCR). The leading cause of mortality in HSCR is HSCR-associated enterocolitis (HAEC), which is characterized by altered mucin composition, mucin retention, bacterial adhesion to enterocytes, and ...

Cellular and Molecular Gastroenterology and Hepatology

From the molecular perspective, cisplatin represents a perfect example of how a small alteration in chemical structure can significantly affect biological activity in target cell (Goodsell, 2006). As illustrated in Fig. 2, cisplatin, carboplatin and oxaliplatin are composed of doubly charged platinum ion surrounded by four ligands, with the amine ligands on the left forming stronger ...

Cisplatin in cancer therapy: Molecular mechanisms of

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The history of molecular biology begins in the 1930s with the convergence of various, previously distinct biological and physical disciplines: biochemistry, genetics, microbiology, virology and physics. With the hope of understanding life at its most fundamental level, numerous physicists and chemists also took an interest in what would become molecular biology.

History of molecular biology - Wikipedia

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Nondisjunction is the failure of homologous chromosomes or sister chromatids to separate properly during cell division. There are three forms of nondisjunction: failure of a pair of homologous chromosomes to separate in meiosis I, failure of sister chromatids to separate during meiosis II, and failure of sister chromatids to separate during mitosis. ...

Nondisjunction - Wikipedia

Distinct Cellular Mechanisms Underlie Anti-CTLA-4 and Anti-PD-1 Checkpoint Blockade

Distinct Cellular Mechanisms Underlie Anti-CTLA-4 and Anti

Abstract. Human induced pluripotent stem cells (iPSCs) provide a renewable supply of patient-specific and tissue-specific cells for cellular and molecular studies of disease mechanisms.

Annual Review of Pathology: Mechanisms of Disease

Biochemistry and Molecular Biology (BMB) is a peer-reviewed and open access journal that provides an international forum for researchers, scholars and practitioners of biochemistry and molecular biology to share experiences and communicate ideas. It is to publish refereed, well-written original research articles that describe the latest research and developments in the area of biochemistry and ...

Biochemistry and Molecular Biology :: Science Publishing Group

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of the world community and accelerating life science discovery, conducts scientific conferences on biomedical and life science topics in relaxing environments that catalyze information exchange and networking. Meetings are designed to encourage scientists to discuss the newest ideas ...

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The physiological and molecular mechanisms of tolerance to osmotic and ionic components of salinity stress are reviewed at the cellular, organ, and whole-plant level. Plant growth responds to salinity in two phases: a rapid, osmotic phase that inhibits growth of young leaves, and a slower, ionic phase that accelerates senescence of mature leaves.

Mechanisms of Salinity Tolerance | Annual Review of Plant

1 Hypersensitivity Mechanisms: An Overview Stephen Canfield, MD, PhD Asst. Prof. Medicine Pulmonary, Allergy, and Critical Care Medicine

Hypersensitivity Mechanisms: An Overview

Molecular Aspects of Thimerosal-induced Autism Richard C. Deth, Ph.D. Professor of Pharmacology Northeastern University Boston, Massachusetts

Molecular Aspects of Thimerosal-induced Autism

The Nobel Prize in Physiology or Medicine 2017 was awarded jointly to Jeffrey C. Hall, Michael Rosbash and Michael W. Young "for their discoveries of molecular mechanisms controlling the circadian rhythm".

The 2017 Nobel Prize in Physiology or Medicine - Press

CHAPTER 1 Cell Injury, Cell Death, and Adaptations 3 C Figure 1â€³ Physiologic hypertrophy of the uterus during pregnancy. Gross appearance of a normal uterus (A, right) and a gravid uterus (left) that was removed for postpartum bleeding.

Cell Injury, Cell Death, and Adaptations - New Age Medical

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