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2 Cells " Fundamental working units of every living system. " Every organism is composed of one of two radically different types of cells: " prokaryotic cells " eukaryotic cells which have DNA inside a nucleus. " Prokaryotes and Eukaryotes are descended from primitive cells and the results of 3.5 billion years of evolution.

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cell (cellula). A simple microscope (Fig. 2) was also designed and constructed in 1676 by Antonie van Leeuwenhoek. He was able to observe many micro-organisms, as well as blood cells, sperm and muscle fibres. During the next two centuries, microscopes and microscopic techniques improved.

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CELL BIOLOGY General Information “ Spring 2011 1. Instructor: Dr. John Sternfeld Dr. Lisa DiMarco Office: 225 Bowers Hall. 313 Bowers Office Hours: MWF 3-4 pm; Th 10-12 am M 8:00-10:00, Tuesday 1:30-3:00 Email: sternfeld@cortland.edu dimarcol@cortland.edu 2. Course Materials: Text: thCell and Molecular Biology (6 edition) by Gerald Karp.

CELLULAR BIOLOGY SPRING CELL BIOLOGY General Information

Cell Biology A cell is chemical system that is able to maintain its structure and reproduce. Cells are the fundamental unit of life. All living things are cells or composed of cells. 2 The interior contents of cells is the cytoplasm. The cytoplasm is

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Cell and molecular biology is an experimental science and, like most instructors, I believe students should gain some knowledge of how we know what we know. With this in mind, I decided to approach the experimental nature of the subject in two ways.

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on cell signalling provides the best integrated, detailed coverage of how cells interact with their environment that I’ve seen at the introductory level, and many other chapters are equally strong in both synthetic and analytical aspects. In short, I was very favourably impressed when I previewed Cell and Molecular Biology in December 1998,

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After activa- tor-coactivator complex binds to the enhancer, RNA polymerase II and other general transcription machinery are recruited to the DNA and transcription begins [15].

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Cell (biology) - Wikipedia

other parts of the cell where this information is used (messenger RNA, mRNA) It has a crucial role in protein synthesis (transfer RNA, tRNA). Proteins Many different functions (signalling, structural, enzymes, regulation). They are the key constituents of the organism. Central dogma of molecular biology It is not a DOGMA A ...

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of molecular biology is that hereditary information is passed between generations in a form that is truly, not metaphorically, digital. Understanding how that digital code directs the creation of life is the goal of molecular

biology. Origins of Molecular Biology Phenotype Genes Proteins Classical Genetics (1900s)

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Cell and Molecular Biology: Concepts and Experiments

Primary cells and cell lines aPrimary cell cultures are established from animal tissues aCertain types of cells are easier to culture than others aMost cells removed from an animal contain a fraction of cells that grow and divide for a limited period of time (about 50 doublings), then eventually die of old age.

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