

Machining And Machine Tools By Ab Chattopadhyay

Structural bioinformatics In Ahmad Khan MS, Ahmad I, Chattopadhyay D (eds. Natural Compounds and Exploration of Their Biomolecular Mechanisms: An In Silico Approach",. The term structural has the same meaning as in structural biology, and structural bioinformatics can be seen as a part of computational structural biology. It deals with generalizations about macromolecular 3D structures such as comparisons of overall folds and local motifs, principles of molecular folding, evolution, binding interactions, and structure/function relationships, working both from experimentally solved structures and from computational models. New Look Structural bioinformatics is the branch of bioinformatics that is related to the analysis and prediction of the three-dimensional structure of biological macromolecules such as proteins, RNA, and DNA.). The main objective of structural bioinformatics is the creation of new methods of analysing and manipulating biological macromolecular data 36735e312a

Downregulation of post-synaptic 5-HT_{2A} receptors is an adaptive response... 36735e312a The concept of epistasis originated in genetics in 1907 but is now used in biochemistry, computational biology and evolutionary biology. The phenomenon arises due to interactions, either between genes (such as mutations also being needed in regulators of gene expression) or within them... 36735e312a

Salmonella Salmonella was named after Daniel Elmer Salmon (1850-1914), an American veterinary surgeon. 1705437114. The two known species of Salmonella are Salmonella enterica and Salmonella bongori. 1073/pnas. PMC 5617274. PMID 28874555. enterica is the type species and is further divided into six subspecies that include over 2,650 serotypes. doi:10. Kisiela DI, Chattopadhyay S, Libby SJ, Karlinsey JE, Fang FC, Tchesnokova V, Kramer JJ, Beskhlebnaya Salmonella is a genus of rod-shaped, (bacillus) Gram-negative bacteria of the family Enterobacteriaceae. S 36735e312a

Cancer immunotherapy "Small-molecule Cancer immunotherapy (immuno-oncotherapy) is the stimulation of the immune system to treat cancer, improving the immune system's natural ability to fight the disease. Archived from the original on 15 February 2006. American Cancer Society. It is an application of the fundamental research of cancer immunology (immuno-oncology) and a growing subspecialty of oncology. Chattopadhyay S, Hazra R, Mallick A, Gayen S, Roy S (September 2024) 36735e312a

The placement and bonding to form G-quadruplexes... 36735e312a

G-quadruplex (December 2008) In molecular biology, G-quadruplex secondary structures (G₄) are formed in nucleic acids by sequences that are rich in guanine. (6) e00401-16. doi:10. They are helical in shape and contain guanine tetrads that can form from one, two or four strands. 00401-16. PMC 5335514. The unimolecular forms often occur naturally near the ends of the chromosomes, better known as the telomeric regions, and in transcriptional regulatory regions of multiple genes, both in microbes and across vertebrates including oncogenes in humans. 1128/mcb. Chattopadhyay R, Das S, Maiti AK, Boldogh I, Xie J, Hazra TK, et al. PMID 27994014. Four guanine bases can associate through Hoogsteen hydrogen bonding to form a square planar structure called a guanine tetrad (G-tetrad or G-quartet), and two or more guanine tetrads (from G-tracts, continuous runs of guanine) can stack on top of each other to form a G-quadruplex 36735e312a

mRNA is created during the process of transcription, where an enzyme (RNA polymerase) converts the gene into primary transcript mRNA (also known as pre-mRNA). This pre-mRNA usually still contains introns, regions that will not go on to code for the final amino acid sequence. These are removed in the process of RNA splicing, leaving only exons, regions that will encode the protein. This exon sequence constitutes mature mRNA. Mature mRNA is then read by the ribosome, and the ribosome creates the protein utilizing amino acids carried by transfer RNA (tRNA). This process is known as translation... 36735e312a

Silver nanoparticle Sanpui P, Paul A, Chattopadhyay A, Ghosh SS (June 2010). Numerous shapes of nanoparticles can be constructed depending on the application at hand. Commonly used silver nanoparticles are spherical, but diamond , octagonal, and thin sheets are also common. Colloids and Surfaces B: Biointerfaces Silver nanoparticles are nanoparticles of silver of between 1 nm and 100 nm in size. "Signaling gene cascade in silver nanoparticle induced apoptosis",. While frequently described as being 'silver' some are composed of a large percentage of silver oxide due to their large ratio of surface to bulk silver atoms 36735e312a

Comparative advertising Chattopadhyay, "When Does Comparative Advertising Influence Brand Attitude. A. 53-69. No. The Role of Delay and Market Position",. Psychology Comparative advertising, or combative advertising, is an advertisement in which a particular product, or service, specifically mentions a competitor by name for the express purpose of showing why the competitor is inferior to the product naming it. 2, 1991, pp. Also referred to as "knocking copy", it is loosely defined as advertising where "the advertised brand is explicitly compared with one or more competing brands and the comparison is obvious to the audience". An advertising war is said to be occurring when competing products or services exchange comparative or combative advertisements mentioning each other 36735e312a

5-HT_{2A} receptor Serotonin Receptors in Neurobiology. Frontiers in The 5-HT_{2A} receptor is a subtype of the 5-HT₂ receptor that belongs to the serotonin receptor family and functions as a G protein-coupled receptor (GPCR). It is a cell surface receptor that activates multiple intracellular signalling cascades. 2A (5-HT_{2A}) Receptor Function: Ligand-Dependent Mechanisms and Pathways.). ",. In Chattopadhyay A (ed 36735e312a

Messenger RNA PMID 17349952. Chattopadhyay In molecular biology, messenger ribonucleic acid (mRNA) is a single-stranded molecule of RNA that corresponds to the genetic sequence of a gene, and is read by a ribosome in the process of synthesizing a protein. Molecular Cell. 2007. 011. 02. 1016/j. doi:10. molcel. 25 (5): 635-646. and the control of mRNA translation and degradation; 36735e312a

This should not be confused with parody advertisements, where a fictional product is being advertised for the purpose of poking fun at the particular advertisement, nor should it be confused with... 36735e312a

Smoking cessation Technology and machine learning: Research studies using machine learning or artificial intelligence tools to provide Smoking cessation, usually called quitting smoking or stopping smoking, is the process of discontinuing tobacco smoking. Tobacco smoke contains nicotine, which is addictive and can cause dependence. role and determine its side effects. As a result, nicotine withdrawal often makes the process of quitting difficult 36735e312a

Cancer immunotherapy exploits the fact that cancer cells often have tumor antigens, molecules on their surface that can bind to antibody proteins or T-cell receptors, triggering an immune system response. The tumor antigens are often proteins or other macromolecules (e.g., carbohydrates). Normal antibodies bind to external pathogens, but the modified immunotherapy antibodies bind to the tumor antigens marking and identifying the cancer cells for the immune system to inhibit or kill. The clinical success... 36735e312a Their extremely large surface area permits the coordination of a vast number of ligands. The properties of silver nanoparticles applicable to human treatments are under investigation in laboratory and animal studies, assessing potential efficacy, biosafety, and biodistribution. 36735e312a

Epistasis Epistatic mutations therefore have different effects on their own than when they occur together. loci) ab, Ab, aB or AB, we can think of different forms of epistasis as affecting the magnitude of a phenotype upon mutation individually (Ab and aB) or Epistasis is a phenomenon in genetics in which the effect of a gene mutation is dependent on the presence or absence of mutations in one or more other genes, respectively termed modifier genes. Originally, the term epistasis specifically meant that the effect of a gene variant is masked by that of different gene. In other words, the effect of the mutation is dependent on the genetic background in which it appears 36735e312a

Like all 5-HT₂ receptors, the 5-HT_{2A} receptor is coupled to the Gq/G11 signaling pathway. It is the primary excitatory receptor subtype among the serotonin-responsive GPCRs. The 5-HT_{2A} receptor was initially noted for its central role as the primary target of serotonergic psychedelic drugs such as LSD and psilocybin mushrooms. It later regained research prominence when found to mediate, at least in part, the effects of many antipsychotic drugs, particularly atypical antipsychotics. 36735e312a Salmonella species are non-spore-forming, predominantly motile enterobacteria with cell diameters between about 0.7 and 1.5 µm, lengths from 2 to 5 µm, and peritrichous flagella (all around the cell body, allowing them to move). They are chemotrophs, obtaining their energy from oxidation and reduction reactions, using organic sources. They are also facultative anaerobes, capable of generating adenosine triphosphate... 36735e312a Smoking is the leading cause of preventable death and a global public health concern. Tobacco use leads most commonly to diseases affecting the heart and lungs, with smoking being a major risk factor for heart attacks, strokes, chronic obstructive pulmonary disease (COPD), idiopathic pulmonary fibrosis (IPF), emphysema, and various types and subtypes of cancers (particularly lung cancer, cancers of the oropharynx, larynx, and mouth, esophageal and pancreatic cancer). Smoking cessation significantly reduces the risk of... 36735e312a

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