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Mutations in the core machinery components and defects in mitochondrial dynamics have been associated with numerous human diseases. ... Understanding the molecular mechanisms controlling mitochondrial dynamics is crucial to decipher how mitochondrial shape

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meets the function and to increase the knowledge on the molecular basis of diseases ...

Mitochondrial dynamics: overview of molecular mechanisms

A machine is a human-made device that uses power to apply forces and control movement to perform an action.

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Machines can be driven by animals and people, by natural forces such as wind and water, and by chemical, thermal, or electrical power, and include a system of mechanisms that shape the actuator input to achieve a specific application of output forces and movement.

Machine - Wikipedia

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Mutation rate variation across viruses. a Range of variation of mutation rates for the seven Baltimore classes of viruses (ss single-strand, ds double-strand; +/- genome polarity, RT retroviruses, pRT para-retroviruses). In the RT group, all mutation rates fall in the non-hatched arrow region except the HIV-1 mutation rate measured in cellular DNA, which is

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orders of magnitude higher than ...

Mechanisms of viral mutation

AI-Driven Multiscale Simulations

Illuminate Mechanisms of SARS-CoV-2

Spike Dynamics Abstract: We develop a generalizable AI-driven workflow that leverages heterogeneous HPC resources to explore the time-dependent dynamics

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of molecular systems. We use this workflow to investigate the mechanisms of infectivity of the SARS-CoV-2 spike protein, the main viral infection machinery.

TCB Members, NAMD, and VMD Part of Team Winning the ACM ...

A multibody dynamic (MBD) system is

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one that consists of solid bodies, or links, that are connected to each other by joints that restrict their relative motion. The study of MBD is the analysis of how mechanism systems move under the influence of forces, also known as forward dynamics. A study of the inverse problem, i.e. what forces are necessary to make the mechanical system move in

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Multibody Dynamics - MSC Software

Adams is the world's most widely used multibody dynamics simulation software. It lets you build and test virtual prototypes, realistically simulating on your computer, both visually and mathematically, the full-motion behavior

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of your complex mechanical system
designs.

Adams - The Multibody Dynamics Simulation Solution

DNA structure. DNA exists as a double-stranded structure, with both strands coiled together to form the characteristic double-helix. Each single strand of DNA is

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a chain of four types of nucleotides. Nucleotides in DNA contain a deoxyribose sugar, a phosphate, and a nucleobase. The four types of nucleotide correspond to the four nucleobases adenine, cytosine, guanine, and thymine, commonly ...

DNA replication - Wikipedia

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Mechanisms to reduce cytoplasmic Na^+ include restriction of Na^+ uptake, increase of Na^+ efflux, and compartmentalization of Na^+ in the vacuole. The rice plasma membrane Na^+/H^+ antiporter (OsSOS1) excludes Na^+ from the shoot, promoting a lower cellular Na^+/K^+ ratio and increasing salt tolerance. The vacuolar Na^+/H^+

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antiporters OsNHX1, OsNHX2, OsNHX3, OsNHX4, OsNHX5, and OsARP ...

Salt tolerance in rice: Physiological responses and ...

These mechanisms most likely are upstream of the auxilin-HSC70 machinery, promoting its action on the clathrin coat. Phosphoinositide

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metabolism is essential for many steps of clathrin-mediated ...

Mechanisms of clathrin-mediated endocytosis | Nature ...

Chimeric antigen receptor (CAR) T cells have revolutionized treatment for hematological cancers, but this success has not translated to solid tumors. To

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address the challenge of treating solid tumors, Liu et al . went back to basics. Rather than further modifying CAR-T cells, the authors instead engineered a synthetic T cell receptor and antigen receptor (STAR) that combines the specificity of ...

Chimeric STAR receptors using TCR

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machinery mediate robust ...

Journal of Bacteriology publishes research articles that probe fundamental processes in bacteria, archaea, and their viruses and the molecular mechanisms by which they interact with each other and with their hosts and their environments.

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Homepage**

Chromatin remodeling is an integral aspect of epigenetic changes in the body, which is the result of modifications to gene expression rather than modification of genetic sequences themselves.

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Chromatin Remodeling: Mechanisms and Importance

Moloch whose mind is pure machinery!
Moloch whose blood is running money!
Moloch whose fingers are ten armies!
Moloch whose breast is a cannibal
dynamo! ... Many other things besides
governments share these two active
ingredients and so are able to act as

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coordination mechanisms to avoid traps. For example, since students are competing against ...

Meditations On Moloch | Slate Star Codex

Moreover, certain miRNAs (primarily Let-7, miR-30 and miR-16 but also miR-34a) are maternally inherited and

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depend on maternal miRNA-processing machinery (Tang et al., 2007; Soni et al., 2013). The best evidence of the importance of maternal miRNA, however, is the discovery of a paternally imprinted 14q32 domain, which allows the exclusive ...

Epigenetic Inheritance: Concepts,

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Mechanisms and Perspectives

Yet, the dynamics of nutrients in soils are more complex than the well-mixed algal cultures that generated the concentration reduction hypothesis. Most importantly, nutrients are not well mixed in soil solution, which changes the nature of nutrient competition and elevates the importance of supply pre-

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emption for nutrients.

**Mechanisms of plant competition
for nutrients, water and ...**

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topics such as Thermodynamics, Hydraulics & Pneumatics, Heat Transfer, Theory of Machines, Material Science, Manufacturing Processes, Fluid Mechanics etc.

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Computational fluid dynamics is a tool

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with amazing flexibility Computational fluid dynamics is a tool with amazing flexibility Read the 5G story We offer streamlined physics workflows to reduce time to accurate results, including battery conjugate heat transfer (CHT) simulations.

Computational Fluid Dynamics

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The NOD-, LRR-, and pyrin domain-containing protein 3 (NLRP3) inflammasome is a multiprotein complex involved in the release of mature interleukin-1 β and triggering of pyroptosis, which is of ...

An update on the regulatory

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mechanisms of NLRP3 ...

Introduction. The discovery of the first microRNA (miRNA), *lin-4*, in 1993 by the Ambros and Ruvkun groups in *Caenorhabditis elegans* (1, 2) has revolutionized the field of molecular biology. Years before, *lin-4* was characterized by the Horvitz's lab as one of the genes that regulate temporal

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development of *C. elegans* larvae (3, 4). Later in 1987, the same group found that a mutation in *lin-4* had ...

Frontiers | Overview of MicroRNA Biogenesis, Mechanisms of ...

Interleukin-17 and its target genes: mechanisms of interleukin-17 function in disease. *Immunology* 129:311–321.

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Crossref. PubMed. Google Scholar. 78.
Maher CO, Dunne K, Comerford R, O'Dea
S, Loy A, Woo J, Rogers TR, Mulcahy F,
Dunne PJ, Doherty DG. 2015. Candida
albicans stimulates IL-23 release by
human dendritic cells and downstream
IL-17 ...

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