

Dynamic Models In Biology

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Dynamic Models In Biology

Biophysical models have been used in biology for decades, but they have been limited in ... and take the form of established stoichiometric matrices, can be converted into dynamic models using ...

Systems Biology: Simulation of Dynamic Network States

Dormancy is a sleep-like state of cells that protects them from genetic damage and thus prolongs their survival. This state is reversible and characterized by low metabolic activity and division rate.

OSCAR detects cells in standby mode

An excerpt from the Targeted Talks highlights the interest in PD-1/PD-L1 and CTLA-4 antibodies, their mechanisms of action, and the potential they bring to the immunotherapy field.

PODCAST PREVIEW: Modern Strategies Are Improving Immunotherapy in Cancer

By Robert Lea Jun 25 2021 Increasingly, meteorologists are turning to AI to improve weather modeling, from predicting short and long-term patterns to predicting life-threatening extreme weather events ...

The Future Use of Artificial Intelligence in Weather Prediction

Researchers have carried out the largest study to date on the regulatory elements in the genome of primates. They found that in humans, the weakest regulatory signals, that are not usually studied, ...

Small Epigenomic Signals Matter in the Human Brain, Here's Why

Few animals can regenerate their spinal cord after an injury. The axolotl can mobilise stem cells in its spinal cord to regrow the lost tissue. An international team of scientists from Argentinas ...

Ready, set, go - how stem cells synchronise to repair the spinal cord in axolotls

The dynamic SPARROW model will better address seasonal inputs of nutrients ... With accessible predictive tools and close cooperation among UKL science entities, managers will be able to plan, execute ...

Developing a Dynamic SPARROW Model to Evaluate Nutrient Loads, Sources, and Transport to the Upper Klamath Lake, USA

Automated vehicle (AV) technology is widely acknowledged as a promising means to prevent crashes, increase mobility among drivers and even lower emissions. But there is a hesitancy toward autonomy ...

Measuring driver trust in autonomous vehicles

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The objective of the proposed exploratory project is to develop a dynamic mathematical decision support (DS) model for patient prioritization ... This research project is funded by the National ...

Continuous Patient Monitoring in the Emergency Department: A Wearable Device Technology Enabled Dynamic Decision Support Model

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NPG, CSU partner for \$49 dynamic digital textbooks

Organovo Holdings, Inc. is an early-stage biotechnology company developing and utilizing highly customized 3D human tissues as dynamic models of health and diseased human biology for internal drug ...

Organovo: New Strategy Targeting Internal Pipeline Development With Customized 3D Human Tissues Offers Upside

3 Graduate School of Material Science ... the development of wide-ranging EOS models) is also shown. Under single-shock compression, a single end state along the principal Hugoniot is achieved. As ...

Establishing gold and platinum standards to 1 terapascal using shockless compression

This project will promote the progress of science and advance the national health by ... and determine how autonomous vehicles that incorporate trust calibration models can influence dynamic trust and ...

Measuring and Modeling the Impact of Dynamic Trust in Automated Vehicles on Driver Behavior

Algal blooms are hotspots of primary production in the ocean, forming the basis of the marine food web and fueling the dissolved organic matter (DOM) pool. Viruses are key players in controlling algal ...

Viral infection of algal blooms leaves a unique metabolic footprint on the dissolved organic matter in the ocean

Published every five years, the new report provides an overview of science and science policy. Artificial intelligence and robotics are particularly dynamic ... New models for the circulation ...

UNESCO report calls for investments in science in the face of growing crises

(University College of London) An academic-private sector partnership reported favorable results from research exploring how machine learning models could ... Data Intensive Science and U.S ...

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