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Self Organization In Biological Systems

The system can generate rolls that ... laws in the origin of growth and form 5. Studying self-organization processes in cell biology forces us to focus on principles and collective behaviours ...

Self-organization in cell biology: a brief history

On a recent podcast about my book Extraterrestrial, I was asked whether extraterrestrial intelligence should be expected to follow the rational underpinning of morality, as neatly formulated by the ...

How to tell if extraterrestrial visitors are friend or foe

Self-Organization in Complex Ecosystems ... or culling animals for conservation purposes, efficient management of biological systems requires quantitative analysis of population growth and harvesting.

Monographs in Population Biology

The colonies of social insects are complex systems that are entirely self ... structure of ant colonies were able to show how this self-organization works in practice. The study was supported ...

The complex organization of an ant colony

Our cells have abilities that go far beyond the fastest, smartest computer. They generate mechanical forces to propel themselves around the body ...

Beyond CAR-T: New Frontiers in Living Cell Therapies

The self-organization of stress patterns we have observed in a model system can have direct implications for biological functions. The cell cortex is a quasi-two-dimensional (2D) dissipative structure ...

Self-organized stress patterns drive state transitions in actin cortices

Aviv Clinics will welcome the launch of its U.A.E. Vision 2021 National Agenda with the opening of the Aviv clinic. The initiative is to ...

Aviv Clinics officially opens in JLT, Dubai, U.A.E

artificial life and self-organization. It also provides overviews of complexity in several applied areas, including parallel computation, control systems, neural systems and ecosystems. Some of the ...

Complex Systems

Molecular Self-Organization ... by encapsulating lifeless biological building blocks within a deformable lipid membrane and put life into them by energizing the system with ATP/GTP chemical ...

What termites and cells have in common

The Africa Higher Education Centers of Excellence Projects (ACE I and ACE Impact) supported the Africa Higher Education Center of Excellence for Genomics of Infectious Diseases (ACEGID) at the ...

Africa's Scientific Solutions and Innovation in the Fight Against COVID-19

This is the second guest post discussing Abigail Shrier's Irreversible Damage: The Transgender Craze Seducing Our Daughters solicited from experts in transgender medical care. In this p ...

Irreversible Damage to the Trans Community: A Critical Review of Abigail Shrier's book Irreversible Damage (Part One)

Those who are incarcerated are suing for their right to gender confirmation surgery—if deemed necessary. Meet the psychiatrist who almost always says it's not.

Prisoners, Doctors, and the Battle Over Trans Medical Care

Researchers decipher the basic biology of neutrophil swarming and ... also inform other categories of collective behavior and self-organization in cells and insects. Max Planck Institute of ...

Start-stop system of hunting immune cells

The Origins of Our Discontents,” author Isabel Wilkerson explains that the racial discrimination that has always existed in the U.S. is best characterized as a caste system, like that in India and ...

Not broken, working as intended: Wilkerson reveals and challenges America's racist caste system

Standardized biological-behavioural surveillance, in which both disease outcome data – self-reported and biological – and behavioural risk factors are measured, would complement traditional ...

Integrated biological-behavioural surveillance in pandemic-threat warning systems

Ticks, chiggers and countless other insects lay hidden among the native grasses at Taberville Prairie Conservation Area one recent afternoon, but the half-dozen men and women wielding ...

Reintroduction of burying beetles continues in Southwest Missouri

Akoya Biosciences Inc., The Spatial Biology Company, has announced partnerships with microscope providers Nikon, CrestOptics and Andor to enable the development of new spatial biology applications, ...

Business Digest: Akoya forms partnerships on spatial biology

Neutrophils belong to the first responders of our immune system ... basic biology of neutrophil swarming and now show that the cells also evolved an intrinsic molecular program to self-limit ...

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