

Self Organization In Biological Systems Princeton Studies In Complexity

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~~Self Organization In Biological Systems~~

The colonies of social insects are complex systems that are entirely self-organized. Scientists who looked at the demographic, genetic and morphological structure of ant colonies were able to show how ...

~~The complex organization of an ant colony~~

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~~

This volume integrates the ideas, models, and theories underlying the systems view of life into a single coherent ... the dynamics of emergence and self-organization as conceived by Francisco Varela.

~~The Systems View of Life~~

Researchers decipher the basic biology of neutrophil swarming and now show that the cells also evolved an intrinsic molecular program to self-limit their swarming activity. The study elucidates how ...

~~Start-stop system of hunting immune cells~~

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~~

1 Department of Molecular Biology ... membrane system to establish a specialized vacuole where it replicates. Hsieh et al. show that, within this effector arsenal, the phospholipid kinase MavQ and the ...

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~~Dynamic remodeling of host membranes by self-organizing bacterial effectors~~

A defining characteristic of all life is its ability to evolve. However, the fact that biologically engineered systems will evolve when used has, ...

~~Scientists develop 'evotype' to unlock power of evolution for better engineering biology~~

Psycho-spiritual” paradigm shift towards a holistic mental resilience in an age of intellectual over-reliance.

~~Is spirituality relevant in addressing mental health issues?~~

Researchers have identified a combination of biological markers in patients with dengue that could predict whether they go on to develop moderate to severe disease.

~~Scientists identify combination of biological markers associated with severe dengue~~

Making the choice to adopt, or to find an adopting family, is a legally complex, emotionally taxing, expensive and time-consuming process. PairTree aims to make one part at least considerably easier ...

~~PairTree speeds adoption process with an online self-matching platform and \$2.25M seed~~

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~~

There have always been conflicts within the LGBT+ community. But the recent capture of Western political and cultural institutions by a faction of radicalized transgender activists presents a more ...

~~The 'Gender Supremacist' Threat to the Progressive Alliance: Part One of a Three-Part Series~~

Yu added, “He treated us differently by tailoring how he either motivated us, encouraged us, or worked with us more directly.” His leadership and mentorship provided students with what they ...

~~H3's Data Centric Approach to Cancer Genomics~~

2 Department of Chemical and Biological Physics ... combined with chromatin self-attractive interactions recapitulate the experimental chromatin distribution profiles. Together, our findings reveal a ...

~~Live imaging of chromatin distribution reveals novel principles of nuclear architecture and chromatin compartmentalization~~

The World Health Organization newly published guidance for community mental health urges an end to forced treatment and the adoption of person-centered and rights-based services.

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~~The WHO Calls for Radical Change in Global Mental Health~~

The College of Agriculture and Natural Resources Alumni Association awards scholarships to students who are well-rounded in their academic and non-academic pursuits and have a vision for their future ...

~~CANR Alumni Association announces 2021 scholarship recipients~~

Dr. Pamela Oliver, executive vice president and president, Novant Health Physician Network Business address: 2085 Frontis Plaza Blvd., Winston-Salem 27023 Education: Bachelor's, biology, UNC Chapel ...

~~Outstanding Women in Business 2021: Dr. Pamela Oliver~~

Trucks from Guatemala's health areas pick up vaccines from the country's National Biological Center in ... Oscar Barreneche, Pan American Health Organization representative in Guatemala, said ...

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