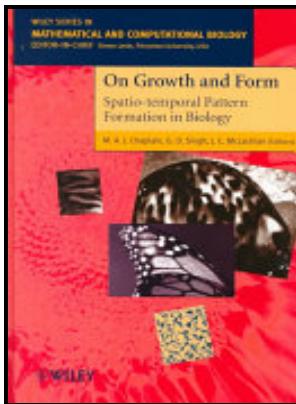


On growth and form - spatio-temporal pattern formation in biology

John Wiley & Sons - Spatio



Description: -

- Growth

Pattern formation (Biology)On growth and form - spatio-temporal pattern formation in biology

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Spatial and spatiotemporal pattern formation in generalised turing systems

Right panels depict magnified insets of VASP-GFP signals in specific morphodynamic phases from the solid line box in the left panel.

Growth

Here we reflect the kymograph to represent the symmetric structure of the pattern , whereby the growth of the colony can be seen as two linearly expanding borders forming a triangular shape. Hence we confirm our theoretical prediction of traveling wave patterns. The next stage in growth is increase in plant size, which is the result of absorption of water and the consequent stretching of the tissues, a process which in the strict sense is not growth at all, since it involves little or no increase in the characteristic material of the plant itself.

ShieldSquare

In summary we report here novel traveling wave spatio-temporal patterns resulting from the growth rate dependent dynamics of a repressilator genetic oscillator circuit. Diversity in Pattern and Form of Biological Systems and Evolution: A Theoretical Approach .

Plants Growth: Characteristics, Development, Phases and Factors

Variations in the intensity of sunlight are always invariably associated with changes in the quality of light, and under natural conditions, variations in light intensity have more significant effects upon growth pattern of plants than changes in the quality of light. Resultant simulations then serialized to a JSON file. Cell division and size increase continue, however, even after increase in total body size no longer occurs.

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