

Proliferation models place their main focus on differential division rates and on volume exclusion within spatially confined regions to produce patterns. Sources may be either synthesizing systems or particulate structures releasing activators and inhibitors. In the model, SHH was secreted by endodermal cells at a constant rate, thus stimulating the secretion of FGF10 in mesenchymal cells in a concentration-dependent manner.

A Dynamical Paradigm for Molecular Cell Biology

In this sense, the BZ microemulsion and the CIMA—starch system share a continuum description. Topics of this course will include the extracellular matrix, cell migration, intracellular compartmentalization, protein modifications and transport and signal transduction pathways.

Morphogenesis

Cells on the flank of the leaf primordium left-hand schematic normally undergo a switch from meristematic red cells to expansion growth blue cells, as shown in the middle schematic. These cells function to promote maternal blood flow to the implantation site and in nutrient uptake, respectively. Reverse EPHB4—ephrin B2 signalling may also play key parts in vascular development.

Quantitative proteomics and systems analysis of cultured H9C2 cardiomyoblasts during differentiation over time supports a ‘function follows form’ model of differentiation

The most common approaches for overcoming the computational costs associated with ABMs center on the abstraction of agents.

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