

What is apoptosis? Apoptosis is a form of programmed cell death (PCD) characterized by cell shrinkage, chromatin condensation, membrane blebbing, and nuclear fragmentation. It is critical for the formation and ...

At the heart of vegetative propagation lies a remarkable cellular phenomenon called cellular totipotency -- the ability of a single plant cell to regenerate into an entire plant. This capacity is ...

?? ?Cell?:Brain endothelial gap junction coupling enables rapid vasodilation propagation during neurovascular ...

This undated photo provided by the Institute of Animal Sciences under the Chinese Academy of Agricultural Sciences shows a somatic cell-cloned dzo in Qushui County of Lhasa, southwest ...

Tissue Culture: Micropropagation Like nearly all human cells, most plant cells have all the genetic information they need to build whole new plants; the problem in building a whole new plant from a single cell is to coax the cell ...

Background Clustering analysis is fundamental in single-cell RNA sequencing (scRNA-seq) data analysis for elucidating cellular heterogeneity and diversity. Recent graph-based scRNA-seq ...

Why Battery Cells Need to Be Packed Carefully Packing battery cells isn't just about cramming as many as possible into a case. The way cells Be Packed influences heat dissipation, vibration ...

In recent years, metallic nanoparticles have emerged as promising agents for improving plant tissue culture. This study aimed to evaluate the effects of cobalt nanoparticles (Co-NPs) at ...

To elucidate the role of endothelial gap junctions in rapid vasodilation propagation through a large arterial network, we developed a genetic loss-of-function mouse line enabling acute ablation of arterial endothelial cell-cell coupling.

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Abstract Cell-to-cell communication is fundamental to multicellular life. In plants, plasmodesmata - cytoplasmic channels - enable molecular transport between adjacent cells. In roots, this ...

Here, we demonstrate that endothelial gap junction coupling enables long-range propagation of vasodilation signals through the vasculature during neurovascular coupling.



Cell-to-cell propagation

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