

Neural Crest Cells Evolution Development And Disease

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Neural Crest Cells Evolution Development

The important question that arises during determining the evolution of organisms is whether evolution should be treated as a continuous process or whether groups of organisms fall into 'local' ...

Study on attractors during organism evolution

We examined the transcriptional states of neural crest ... of development within the large intra-adrenal ganglia-like structures, which may also serve as reservoirs of originating cells in ...

Single-cell transcriptomics of human embryos identifies multiple sympathoblast lineages with potential implications for neuroblastoma origin

Mammalian embryonic development is an extremely complex ... gene helps direct generation of tissues in the head. Neural crest cells (NCCs) have been a recent focus of developmental biology ...

Get your head in the game: One gene's role in cranial development

Epigenetics is the study of emergent properties in the origin of the phenotype in development ... Neural Crest (pp. 181-194) Martha Alonzo, Kathleen K. Smith and Margaret I. Kirby Epigenetic ...

Epigenetics: Linking Genotype and Phenotype in Development and Evolution

Control Engineering - The microscopic structures and properties of materials are intimately linked, and customizing them is a challenge. Rice University engineers are trying to ...

Neural nets used to rethink material design for batteries, more

The hypothalamus coordinates neuroendocrine functions in vertebrates. To explore its evolutionary origin, we describe integrated transcriptome/connectome brain maps for swimming tadpoles of *Ciona*, ...

The hypothalamus predates the origin of vertebrates

and to understand how these mechanisms impact tissue development, long-term function, and susceptibility to disease. Our work is centered on neural stem cells; though we are also interested in other ...

Lisa Julian

Their open-access paper in the Cell Press journal *Patterns* shows how neural networks (computer models that mimic the brain's neurons) can train themselves to predict how a structure will grow under a ...

Neural Networks Used to Rethink Material Design

For those who study evolution ... mediate the "fight or flight" response. Neural crest cells are also important for stimulating the development of parts of the forebrain and for several ...

Why so many domesticated mammals have floppy ears

They were specifically interested in a gene called *crestin* which is active, or expressed during embryo development in a specific population of stem cells called neural crest progenitors.

Cancer Spread Tracked From A Single Cell In A Live Animal

The microscopic structures and properties of materials are intimately linked, and customizing them is a challenge. Rice University engineers are determined to simplify the process through machine ...

New strategy puts evolution of microscopic structures on fast track

One of my lab's long-term goals is to elucidate the transcriptional and epigenetic mechanisms regulating retinal progenitor cell proliferation and ... network that is responsible for development of ...

Ross Poché Lab

The researchers have successfully helped reveal the complicated mechanisms involved with cranial development. The article, "Dlx5-augmentation in neural crest cells reveals early development and ...

Get your head in the game -- One gene's role in cranial development

Dlx5-augmentation in neural crest cells reveals early development and differentiation potential of mouse apical head mesenchyme. *Scientific Reports*, 2021; 11 (1) DOI: 10.1038/s41598-021-81434-x ...

Get your head in the game -- One gene's role in cranial development

Their open-access paper in the Cell Press journal *Patterns* ("Self-supervised learning and prediction of microstructure evolution with convolutional ... the computation efficiency of neural networks ...

Neural nets used to rethink material design

Engineers are using neural networks to accelerate predictions of how the microstructures of materials evolve. The machine-learning technique should speed the development of novel materials.

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