Ciliary Function In Mammalian Development Volume 85 Current Topics In Developmental Biology

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Ciliary Function In Mammalian Development

Which of the following is not a function of the ce 1. Helps us learn the English language 2. C... A: The brain has two parts are the brain and the spinal cord. memory, emotion, touch, skills, vision, ...

What is the function of cilia?

The cytoskeleton has been extensively implicated in regulating cell function and behaviour during development. This Review analyses the functional organization of cytoskeletal components in the early ...

Cytoskeletal control of early mammalian development

Functional characterization of mammalian olfactory receptors (ORs) remains a major challenge to ultimately understanding the olfactory code. Here, we compare the responses of the mouse Olfr73 ...

Mixture interactions at mammalian olfactory receptors are dependent on the cellular environment

Ependymal cells are radial glia-derived multiciliated cells lining the lateral ventricles of the brain and spinal cord. Correct development and coordinated cilia beating is essential for proper ...

ID4 Is Required for Normal Ependymal Cell Development

Planar cell polarity (PCP) is essential to optimize information processing and functional response in many tissues. While the fly eye is a classic example of PCP, it remains unknown whether PCP exists ...

Light-mediated planar polarization of cone photoreceptor cilia contributes to visual acuity in mammals

Our Marvelous Bodiesoffers a unique perspective on the structure, function, and care of the major systems of the human body. Unlike other texts that use a ...

Our Marvelous Bodies: An Introduction to the Physiology of Human Health

Bardet-Biedl syndrome protein 4 (BBS4) localization has been studied in human embryos/fetuses from Carnegie stage 15 to 37 gestational weeks in neurosensory organs and brain, underlying the major ...

BBS4 protein has basal body/ciliary localization in sensory organs but extra-ciliary localization in oligodendrocytes during human development.

RNAs are currently being evaluated as to how they can be exploited in the drug development process and as therapeutic agents.

What is SiRNA?

Human organ chip-based drug testing identified that the

antimalarial drug amodiaquine has inhibiting effects against SARS-CoV-2.

Human Organ Chips Shift Amodiaquine from Old Antimalarial to Promising COVID-19 Treatment

Odor stimuli consist of thousands of possible molecules, each molecule with many different properties, each property a dimension of the stimulus. Processing these high dimensional stimuli would appear ...

An Evolutionary Microcircuit Approach to the Neural Basis of High Dimensional Sensory Processing in Olfaction

Artificial living organisms can move material in swarms and record information. Last year, a team of biologists and computer scientists from Tufts University and the University of Vermont (UVM) ...

Xenobots 2.0: Scientists Create the Next Generation of Living Robots

A Wyss Institute-led collaboration spanning four research labs and hundreds of miles has used the Institute's organ-on-a-chip (Organ Chip) technology to identify the antimalarial drug amodiaquine as a ...

Human organ chips enable COVID-19 drug repurposing

Constantina Theofanopoulou wanted to study oxytocin. Her graduate work had focused on how the hormone influences human speech development, and now she was preparing to use those findings to ...

A case for simplifying gene nomenclature across different organisms

Specific modifications on the DNA can restrain moveable retrovirus sequences and stop them from jumping in and out of the genome.

Restraining retroviruses

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Report: Claire Robinson Glyphosate-based herbicides such as Roundup activate mechanisms involved in cancer development, including DNA damage – and these effects occur at doses assumed by regulators to ...

Proven: Glyphosate herbicides change gene function and cause DNA damage
East Star Resources plc, a company formed for the purpose of undertaking an acquisition or acquisitions of a majority interest in ...