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Species And Cell Type Speci

These data suggest that both species- and/or cell type-specific differences are likely to exist in the requirements of Ras-pathways for transformation. While various studies indicate the existence of differences in the mechanisms of transformation of mouse and human cells, none has systematically enumerated these differences.

Species- and cell type-specific requirements for cellular ...

Compounds With Species and Cell Type Specific Toxicity Identified in a 2000 Compound Drug Screen of Neural Stem Cells and Rat Mixed Cortical Neurons *Neurotoxicology*. 2014 Dec;45:192-200. doi: 10.1016/j.neuro.2014.10.007. Epub 2014 Oct 22. Authors Nasir Malik 1 ...

Compounds With Species and Cell Type Specific Toxicity ...

Keywords: Peroxisome; DNA repair; Cell type specific gene regulation; Cell death; Superoxide dismutase; Reactive oxygen species 1. Introduction Cells are continually exposed to a variety of DNA-dam-aging agents, which if left unrepaired, can cause mutations or cell death. To maintain genomic integrity, cells have a network of mechanisms to ...

Differential developmental expression and cell type speci ...

Cell-Type-Specific H⁺-ATPase Activity in Root Tissues ... a higher reactive oxygen species production under NaCl and a larger density of reactive oxygen species-activated cation currents in the apex. Salinity treatment increased (2- to 5-fold) the content of 10 (out of 25 detected) ... specifically, those for Na⁺ and K⁺ ions. High cytosolic Na ...

Cell-Type-Specific H⁺-ATPase Activity in Root Tissues Enables ...

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Species And Cell Type Speci C Interactions Between Cd47 ...

In biology, a species is the basic unit of classification and a taxonomic rank of an organism, as well as a unit of biodiversity. A species is often defined as the largest group of organisms in which any two individuals of the appropriate sexes or mating types can produce fertile offspring, typically by sexual reproduction. Other ways of defining species include their karyotype, DNA sequence ...

Species - Wikipedia

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ARTICLE Species- and cell type-specific requirements for cellular transformation Annapoorni Rangarajan, 1 Sue J. Hong, 2 Annie Gifford, 1 and Robert A. Weinberg 1, 2, * 1Whitehead Institute for Biomedical Research 2 Department of Biology, Massachusetts Institute of Technology, Cambridge, Massachusetts 02142 *Correspondence: weinberg@wi.mit.edu Summary

Species- and cell type-specific requirements for cellular ...

In biology, a gene is a sequence of nucleotides in DNA or RNA that encodes the synthesis of a gene product, either RNA or protein.. During gene expression, the DNA is first copied into RNA. The RNA can be directly functional or be the intermediate template for a protein that performs a function. The transmission of genes to an organism's offspring is the basis of the inheritance of phenotypic ...

Gene - Wikipedia

Reactive oxygen species (ROS) are highly reactive chemical molecules formed due to the electron acceptability of O₂. Examples of ROS include peroxides, superoxide, hydroxyl radical, singlet oxygen, and alpha-oxygen.. The reduction of molecular oxygen (O₂) produces superoxide (•O⁻), which is the precursor of most other reactive oxygen species.. O₂ + e⁻ → •O⁻

Reactive oxygen species - Wikipedia

imaging microscopy (FLIM) to map cell-specific metabolic signatures in the kidneys of live animals. The FLIM images are analyzed using the phasor approach, which requires no prior knowledge of metabolite species and can provide unbiased metabolic fingerprints for each pixel of the lifetime image. Intravital

Two-Photon Intravital Fluorescence Lifetime Imaging of the ...

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More than 30 cell lines derived from various species were screened but only a few cell lines were found to be susceptible, including Madin–Darby canine kidney type II (MDCK II) cells. The identification of cell lines susceptible to VSV chimeras allowed us to recover recombinant HL17NL10 and HL18NL11 viruses from synthetic DNA.

Synthetically derived bat influenza A-like viruses reveal ...

Previous Next 1 of 10 Tick species guide. Tick-borne diseases are becoming an increasing problem in the United States. Since 2009, more than 200,000 cases have been reported. Although there are hundreds of species of ticks found throughout the world, fewer than 60 are known to bite and transmit disease to humans.

Slide show: Guide to different tick species and the ...

Hammerhead sharks are unmistakable—they have a unique hammer- or shovel-shaped head. Many hammerhead sharks live in warm waters fairly close to shore, although most of them are not considered much danger to humans. Here you can learn about the 10 species of hammerhead sharks, which range in size from about 3 feet to 20 feet (1 to 6 meters) in length.

10 Different Types of Hammerhead Sharks

Species definition is - kind, sort. How to use species in a sentence.

The Development of Dictyostelium discoideum consists of 11 chapters representing the 11 major aspects at which continuous progress are made in the study of Dictyostelium discoideum. This book begins with the discovery, classification, ecology, and development of Dictyostelium discoideum. It then outlines the advances in genetic manipulation and mutant isolation of the organism. Much of the advances in cell biology have been related to a better understanding of the composition and function of the cell membrane. Hence, analyses of Dictyostelium plasma membranes are collated. This reference material also describes the role of chemoattractants in organizing cell movements and the intracellular events triggered by occupancy of chemoreceptors. It also explains the understanding of the macromolecular components of the chemosensory system of Dictyostelium discoideum. It further discusses the cell motility, cell adhesion, morphogenetic signaling, cytodifferentiation, and gene expression in the species. Finally, the phenomenon of cell-type specification and regulation in this organism is addressed. This book will be valuable for those already familiar with the general outlines of Dictyostelium biology.

The first homeobox gene was molecularly cloned nearly two decades ago, and since that time tremendous progress has been made in our understanding of the distribution of homeobox genes in the genomes of many animal species and the common functional role the encoded homeodomains play in cell-type specification, morphogenesis and development. The amino acid sequence of the homeodomain, as well as the presence of other conserved protein domains, has allowed the classification of homeodomain-containing proteins (homeoproteins) into over thirty separate families (e.g. Hox, Dlx, Msx, Otx, Hmx, Cdx etc.). In many cases a single gene has been shown to fully direct the morphogenesis and development of a complex tissue, organ or even an entire body segment. Yet how this "master" regulatory ability of homeoproteins functions at the molecular level to a large degree still remains a mystery, in part owing to our limited understanding of the nature of both homeoprotein transcriptional cofactors and even more elusively, the downstream targets of homeoprotein function. In the reviews presented here it is limited primarily to what has been learned in vertebrate systems, principally focusing on the mouse, owing to the strengths of the technical approaches currently existing in murine developmental genetics that are not yet available to the same degree in other vertebrate species. Despite this mammalian predilection, a common thread to each of these reviews is the underlying importance of what has been learned about homeoprotein function in other animal species, particularly arthropods like Drosophila.

Patterning and Cell Type Specification in the Developing CNS and PNS, Second Edition, the latest release in the Comprehensive Developmental Neuroscience series, presents recent advances in genetic, molecular and cellular methods that have generated a massive increase in new information. The book provides a much-needed update to underscore the latest research in this rapidly evolving field, with new section editors discussing the technological advances that are enabling the pursuit of new research on brain development. This volume focuses on neural patterning and cell type specification in the developing central and peripheral nervous systems. Features leading experts in various subfields as section editors and article authors Contains articles that are peer reviewed to ensure accuracy, thoroughness and scholarship Covers mechanisms which control regional specification, regulate proliferation of neuronal progenitors, control differentiation and survival of specific neuronal subtypes, and control the development of non-neural cells

The genetic, molecular, and cellular mechanisms of neural development are essential for understanding evolution and disorders of neural systems. Recent advances in genetic, molecular, and cell biological methods have generated a massive increase in new information, but there is a paucity of comprehensive and up-to-date syntheses, references, and historical perspectives on this important subject. The Comprehensive Developmental Neuroscience series is designed to fill this gap, offering the most thorough coverage of this field on the market today and addressing all aspects of how the nervous system and its components develop. Particular attention is paid to the effects of abnormal development and on new psychiatric/neurological treatments being developed based on our increased understanding of developmental mechanisms. Each volume in the series consists of review style articles that average 15-20pp and feature numerous illustrations and full references. Volume 1 offers 48 high level articles devoted mainly to patterning and cell type specification in the developing central and peripheral nervous systems. Series offers 144 articles for 2904 full color pages addressing ways in which the nervous system and its components develop Features leading experts in various subfields as Section Editors and article Authors All articles peer reviewed by Section Editors to ensure accuracy, thoroughness, and scholarship Volume 1 sections include coverage of mechanisms which: control regional specification, regulate proliferation of neuronal progenitors and control differentiation and survival of specific neuronal subtypes, and controlling development of non-neural cells

Pedagogically enriched, the book provides engaging chapter-end assessment exercises to enhance and strengthen learning of the readers

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