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1. Smooth muscle cell

Cardiovascular **diseases** driven by **vascular smooth muscle** cell-dysfunction. ... This model offers robust reproducibility and has been used to study **cellular**, biochemical and **molecular aspects of** vessel repair, ... Cytokines affecting endothelial and **smooth muscle** cells in **vascular disease**. J. Lipid Res., 46 (6) (2005), pp. 1081-1092.

2. Molecular Regulation of Vascular Smooth Muscle Cell

A. **Vascular** SMCs Are Multifunctional and Their Functions Vary During Different Stages of **Vascular** Development. Before considering **molecular** mechanisms that control SMC differentiation in development and **disease**, it is important to first briefly review some general principles of regulation of normal **cellular** differentiation, as well as some unique **aspects of** control of differentiation of ...

3. Notch and vascular smooth muscle cell phenotype
The Notch signaling pathway is critical for cell fate determination during embryonic development, including many aspects of vascular development. An emerging paradigm suggests that the Notch gene regulatory network is often recapitulated in the context of phenotypic modulation of vascular smooth muscle cells (VSMC), vascular remodeling, and ...

4. Zooming into Cellular and Molecular Heterogeneity of

pulmonary vascular wall are endothelial cells (EC), smooth muscle cells (SMC), and adventitial fibroblasts (FB) (2). However, the precise composition and proportion of resident vascular cells and infiltrating cell types in the healthy and remodeled pulmonary vasculature, peri-vascular tissue, and the lung interstitium has not been assessed so far.

5. Skeletal muscle A review of molecular structure and

Vascular smooth muscle cells (VSMCs), endothelial cells (ECs), and pericytes represent major cell types of the vascular walls. As the energy requirements vary across muscle types, so does the density of vasculature and thickness of capillaries to cater to its oxygen demand.

6. Downregulation of miR

Cardiovascular disease (CVD) is a leading cause of death and disability worldwide []. Atherosclerosis is a major cause of many CVDs [2, 3]. Recent studies show that atherosclerosis is a complicated process in which monocytes, foam cells and endothelial cells play different roles [4,5,6]. Furthermore, increasing evidence indicates that vascular smooth muscle cells (VSMCs) have a crucial role in ...

7. Molecular and Cellular Aspects of Calcific Aortic Valve

Hemodynamic and Cellular Response Feedback in Calcific Aortic Valve Disease. Molecular and Cellular Aspects of Calcific Aortic Valve Disease ... and HL114806 from the National Institutes of Health, and transitional research funds from the Sanford-Burnham ... Calcium regulates key components of vascular smooth muscle cell-derived matrix vesicles ...

8. Cellular and molecular aspects of vascular dysfunction in

Vascular disease in scleroderma has been comprehensively reviewed elsewhere; 8 in this Review, I will focus on the cellular and molecular aspects of SSc
vasculopathy. Morphological **vascular** changes **Vascular disease** in SSc predominantly affects the microcirculation, especially capillaries and arterioles.

9. Textbook of Pulmonary Vascular Disease

Caveolae and Signaling in Pulmonary **Vascular** Endothelial and **Smooth Muscle** Cells. The Chemistry of Biological Gases. Role of Oxygen-derived Species in the Regulation of Pulmonary **Vascular** Tone. Mitochondrial ROS and Redox State in Pulmonary **Vascular** O2 Sensing. **Cellular and Molecular** Mechanisms of Pulmonary **Vascular Smooth Muscle** Cell ...

10. Lung Vascular Injury Molecular And Cellular Response Lung

** PDF Lung **Vascular** Injury Molecular And Cellular Response Lung Biology In **Health And Disease** ** Uploaded By Eiji Yoshikawa, presents cellular biochemical and **molecular aspects** of the pathogenesis of experimental lung **vascular** injury employing a didactic approach to elucidate the novel concepts discussed the book integrates

11. Vascular Smooth Muscle Structure And Function In Health

This book presents key concepts in the structure and function of **vascular smooth muscle** cells in **health and disease**. Supplemental reading may be drawn from the extensive references listed at the end of each chapter. **Vascular smooth muscle** cell is the major cell type in blood vessels.

12. Vascular smooth muscle cell senescence and age

1. Introduction. Aging, as a global **health** concern, is a challenge to individual **health** and public **health** policy. In the aging process, tissue and organ functions are progressively lost, at least in part, thereby leading to a high risk of age-related **diseases** and an increased risk of mortality []. Specifically, cerebra-cardiovascular **diseases** are the leading cause of mortality among all age ...

13. Molecular and Cellular Aspects of Muscle Function

Advances in Physiological Sciences, Volume 5: **Molecular and Cellular Aspects of Muscle** Function covers the proceedings of the 28th International Congress of Physiological Sciences, held in Budapest in 1980 (including the proceedings of the satellite symposium on Membrane Control of Skeletal **Muscle** Function).


15. **Molecular Basis of Disease** Ohio State Biochemistry

**Molecular** Basis of **Disease**. Body. ... Investigators have interests in gene expression in **vascular smooth muscle** and after heart transplantation, redox regulation, lipoprotein receptors, and defining the **molecular** and **cellular** basis of heart failure.

16. **Molecular aspects of vascular tissue engineering**

**Molecular aspects of vascular** tissue engineering. ... **vascular** disease and of dialysis patients have guided. ... factors are important to regulate smooth muscle cell (SMC) and endothelial cell ...

17. VCMB NIH Center for Scientific Review

Studies using **cellular**, biochemical, biophysical, immunological, genetic, pharmacological, and **molecular** biological approaches to define **vascular** homeostasis and dysfunction in experimental models are reviewed. A principal focus is on the biology of the endothelium and **vascular smooth muscle** cells.

18. **The molecular mechanism of mechanotransduction in vascular**

We then highlight the **molecular** mechanotransduction events in the vessel wall triggered by laminar shear stress (LSS) and disturbed shear stress (DSS) on **vascular** endothelial cells (ECs), and cyclic stretch in ECs and **vascular smooth muscle** cells (SMCs)â€”both of which activate several key transcription factors.

19. **The vascular smooth muscle cell** Molecular and biological

Oregon **Health Sciences University Portland, Ore.** Search for articles by this author. ... A comprehensive review of current knowledge of the structure and function of the smooth muscle cell as it relates to **vascular disease** is the focus of The **vascular smooth muscle** cell: **Molecular** and biological responses to the
extracellular matrix.

20. Cells of the Vascular System Clinical Gate

It is believed that endothelium-dependent relaxation of **vascular smooth muscle** is a result of endothelial cell hyperpolarization. 10 - 12, 25 - 35 Endothelial cell hyperpolarization occurs as a result of influx of extracellular K⁺ through the opening of calcium-activated potassium channels in response to the rise in intracellular calcium.

21. IVPP NIH Center for Scientific Review

**Vascular** cell and **molecular** biology of blood vessels ranging from major arteries to the microcirculation and sex-specific microvascular disease mechanisms. Neural and humoral control of the cardiovascular system in vertebrate animals including systems analysis of autonomic physiology involving central and peripheral mechanisms of cardiovascular ...

22. Cellular and Molecular Basis of Pulmonary Arterial

The process of pulmonary **vascular** remodeling is accompanied by endothelial dysfunction, activation of fibroblasts and **smooth muscle** cells, crosstalk between cells within the **vascular** wall, and recruitment of circulating progenitor cells. Recent findings have reestablished the role of chronic vasoconstriction in the remodeling process.

23. Vascular smooth muscle cell in atherosclerosis


24. SMOOTH MUSCLE CONTRACTION AND RELAXATION Advances in

**Ca²⁺-DEPENDENT CONTRACTION OF SMOOTH MUSCLE.** Contraction of **smooth muscle** is initiated by a Ca²⁺-mediated change in the thick filaments, whereas in striated **muscle** Ca²+ mediates contraction by changes in the thin filaments. In response to specific stimuli in **smooth muscle**, the intracellular concentration of Ca²+ increases, and this activator Ca²+ combines with the acidic protein calmodulin.
Molecular and Cellular Aspects of Muscle Contraction Series: Advances in Experimental Medicine and Biology ... KLF5/BTEB2, a Krüppel-like Zinc-finger Type Transcription Factor, Mediates both Smooth Muscle Cell Activation and Cardiac Hypertrophy.- Regulation of the Rho Signaling Pathway by Excitatory Agonists in Vascular Smooth Muscle ...

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Biochemistry and Molecular Biology (1932) Nutrition (2014) Pathology (405) Pharmacology (883) Physiology (2407) Tools. Submit an article; Browse sample issue; Get Content alerts; Subscribe to this journal; Published in cooperation with the Federation of American Societies for Experimental Biology. Tweets by FASEBJournal ...

27. Cellular and Molecular Medicine Research

Cellular and Molecular Medicine Research, quarterly, ISSN pending (print), ISSN pending (online), published by Elmer Press Inc. The content of this site is intended for health care professionals. This is an open-access journal distributed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License, which permits ...

28. Molecular and Cellular Aspects of Calcific Aortic Valve

Molecular and Cellular Aspects of Calcific Aortic Valve Disease. Dwight A. Towler; From the Diabetes and Obesity Research Center, Sanford-Burnham Medical Research Institute at Lake Nona and Florida Hospital Translational Research Institute for Metabolism and Diabetes, Orlando, FL.

29. Phytanic acid activates NADPH oxidase through

Phytanic acid (PA) has been implicated in development of cancer and its defective metabolism is known to cause life-threatening conditions, such as Refsum disease, in children. To explore molecular mechanisms of phytanic acid-induced cellular pathology, we investigated its effect on NADPH oxidase (NOX) and epidermal growth factor receptor (EGFR) in rat aortic smooth muscle cells (RASMC).

30.
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