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1. Biol Neonate. 2003;84(1):83-8. Genetic control of lung development. Roth-Kleiner M(1), Post M. Author information: (1)Program in Lung Biology, The Hospital for Sick Children Research Institute, Department of Laboratory Medicine, University of Toronto, Toronto, Ont., Canada. Lung organogenesis is a developmental process that starts in human 4-5 weeks after conception and continues during the ...

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Knowledge about the mechanisms of lung development has been growing rapidly, especially with regard to cellular and

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The genetic program of lung development can be altered by prenatal and early postnatal challenges leading to lasting effects on lung structure and function. Fetal exposure to adverse intrauterine conditions such as reduced amniotic fluid, excess glucocorticoids, nutritional and oxygen restriction, or maternal tobacco smoking can interfere with the genetic program of development.

Lung Development - an overview | ScienceDirect Topics

Hepatic nuclear factor-3 (HNF 3) seems to be required for the formation of the foregut from which the primitive lung bud is derived.⁸ Genetic disruption of HNF 3 disrupts formation of the foregut endoderm and its derivatives, including the lung.⁹ In human neonatal lung, it is present in type II pneumocytes as well as ciliated and non-ciliated epithelial cells.¹⁰ HNF 3 also influences expression of other nuclear factors including thyroid transcription factor 1 (TTF-1). TTF-1 mRNA ...

Lung growth: implications for the newborn infant | ADC ...

This work establishes a genetic system for investigating tube size regulation, and provides an outline of the genetic program and cellular events underlying tracheal tube size control. The proper size of epithelial tubes is critical for the function of the lung, kidney, vascular system and other organs, but the genetic and cellular mechanisms that control epithelial tube size are unknown.

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Moreover, using the robust knowledge of pathways that regulate early lung development, lung epithelial cells can now be generated from embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs), providing an additional source of cells for disease modeling and potential cell-based therapies (Longmire et al., 2012; Mou et al., 2012). In this Review, we highlight recent advances in the basic understanding of lung development and regeneration with a focus on the cell biology of the ...

Lung development: orchestrating the generation and ...

Genetic pathways causing lung malformations and dysfunction. SHH, FGF and TTF-1 dependent pathways play central roles in lung morphogenesis. Mutations or deletion of genes in these pathways disrupt tracheal – esophageal separation and alter branching morphogenesis.

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Genetic and environmental factors contributing to COPD are presently under investigation. As lung function measures cluster within families, we now know that lung function is partly inherited. Thus, identifying genes involved in determining lung function at the population level and in determining the risk of development of COPD is important.

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