

## Genetic Control Of Lung Development Eoncology

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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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Lung development is under a tight control of transcrip- tion factors, growth factors and other signaling molecules which have a distinct expression over space and time.

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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 ...

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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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