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In human fetuses, Doppler studies demonstrate that the pulmonary blood flow is only 13% of combined ventricular output at 20 weeks' gestation (canalicular stage), representing a nadir during lung development (see Fig. 3.1). 5 This finding is largely secondary to the lower cross-sectional area of the very immature pulmonary vascular bed. . Furthermore, in fetal lambs at an equivalent point in ...

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Development. The pulmonary vasculature develops in close coordination with the bronchial tree and distal airspaces and recent evidence indicates a close interdependence between capillary development and alveolar Chapter 3 Pulmonary Vascular Development Springer

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Pulmonary Vascular Disease | ScienceDirect

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pulmonary hypertension through the mechanism involving with the regulation of pulmonary vascular tone (119). The earlier results suggest a role for endogenous Ang-II, acting through the type 1 receptor, in the vascular remodeling associated with

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hypoxic pulmonary hypertension. A direct correlation of significant increase in

12 CHAPTER 3 Renin-Angiotensin- Aldosterone System Genes ...

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Chapter 3 Fetal Vascular Malperfusion | obstetrical pathology

This chapter will summarise the major pathways and mechanisms involved in hypoxia-driven pulmonary hypertension (PH). Vasoconstriction in response to low oxygen tension (hypoxia) in pulmonary arteries is an important physiological adaptation to reroute blood flow to areas of higher oxygenation for effective gaseous exchange.

Hypoxia and Pulmonary Hypertension | IntechOpen

Pulmonary vascular endothelial cell (PVEC) injury following acute lung injury or acute respiratory distress syndrome seriously affects disease development. Recently, accumulating evidence has suggested that long noncoding RNA (lncRNA) exerts significant effects in vascular endothelial cell injury.

Downregulating lncRNA PRNCR1 ameliorates LPS-induced

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PH. In different animal models abnormal retinoic acid signaling has

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Abstract. This chapter begins with the imaging findings in cardiogenic pulmonary edema and then addresses the various causes and appearances of non-cardiogenic pulmonary edema, including pulmonary hemorrhage and adult respiratory distress syndrome (ARDS).

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