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compaction -- 57 Cardiac cell specification and differentiation by the defined factors -- 58 A Temporo-Spatial Regulation of Sema3c is Essential for Interaction of Progenitor Cells during Cardiac Outflow Tract Development -- 59 Spatiotemporally restricted developmental alterations in the anterior and secondary heart fields cause distinct conotruncal heart defects -- 60 Significance of transcription factors in the mechanisms of great artery malformations -- 61 The different c-kit expression in human induced pluripotent stem (iPS) cells between with feeder cells and without feeder cells -- 62 Establishment of induced pluripotent stem cells from immortalized B cell lines and their differentiation into cardiomyocytes -- 63 Establishment of an in vitro LQT3 model, using induced pluripotent stem cells from LQT3 patient-derived cardiomyocytes -- 64 Genetic Assessments for clinical courses of Left ventricle noncompaction -- 65 Elucidating the pathogenesis of congenital heart disease in the era of next-generation sequencing.

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### Sommario/riassunto

This open access book focuses on the molecular mechanism of congenital heart disease and pulmonary hypertension, offering new insights into the development of pulmonary circulation and the ductus arteriosus. It describes in detail the molecular mechanisms involved in the development and morphogenesis of the heart, lungs and ductus arteriosus, covering a range of topics such as gene functions, growth factors, transcription factors and cellular interactions, as well as stem cell engineering technologies. The book also presents recent advances in our understanding of the molecular mechanism of lung development, pulmonary hypertension and molecular regulation of the ductus arteriosus. As such, it is an ideal resource for physicians, scientists and investigators interested in the latest findings on the origins of congenital heart disease and potential future therapies involving pulmonary circulation/hypertension and the ductus arteriosus.

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