



## Stem Cells and Progenitors in Liver Development

By Marcus O Muench

Morgan Claypool, United States, 2013. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The human liver is a dynamic organ throughout life, but no more so than during prenatal development. The liver performs many essential functions associated with metabolism, immunity and blood production. These diverse functions are performed by a variety of cell types that have the capacity for growth, allowing the liver to regenerate cells lost due to aging, infection or injury. Various stem cell populations are at the core of the liver's potential for regeneration, which are most active during embryonic and fetal development, when the liver undergoes rapid growth. Consequently, the prenatal liver represents a unique opportunity to study the precursor cells that give rise to all liver cells at their time of greatest activity. Herein, we focus on the early development of the human liver from the perspective of the stem cells and their many lines of progeny that generate the hepatic, endothelial, mesenchymal and hematopoietic cells that comprise the fetal liver. Understanding the developmental relationships, growth control and cellular interactions among these cells is crucial to our understanding of liver development and function during...



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