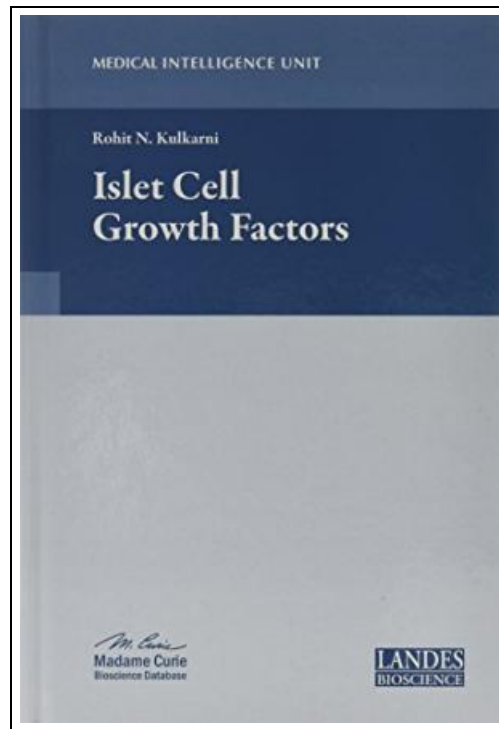


Islet Cell Growth Factors (Medical Intelligence Unit (Unnumbered))



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Reviews

This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf.

(Alfreda Bradtke)

ISLET CELL GROWTH FACTORS (MEDICAL INTELLIGENCE UNIT (UNNUMBERED))



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CRC Press, U.S.A., 2011. Hardcover. Condition: New. 1587063387 New. Islet Cell Growth Factors By Rohit N. Kulkarni; Harvard Medical School : Product Details: This book, *Islet Cell Growth Factors*, provides a timely contribution to the current thinking regarding the concepts in the area of islet cell regeneration with special reference to insulin secreting beta cells. The contributions are from leaders in the field with a long-standing interest in the area of islet biology. In the first chapter Drs. Dirice and Kulkarni provide a broad introduction to the topic of islet cell regeneration with a focus on growth factor pathways, especially the insulin and insulin-like growth factor signaling mechanisms affecting beta cells in Type 1, Type 2 and gestational diabetes. This is followed by a contribution by Drs. Granot and Dor who describe an elegant lineage-trace model to confirm that proliferation is one of the major mechanisms underlying beta-cell regeneration in adult rodents. These findings are backed up by Drs. Georgia and Bhushan on cell cycle control in beta cells. Subsequent chapters are focused on proteins downstream of the growth factor pathways in the regulation of beta-cell biology. Thus, Drs. Ham and Stoffers discuss the role of the homeodomain protein, Pdx-1, on beta-cell growth while Dr. Bernal-Mizrachi describes the significance of Akt in beta-cell growth and function. Finally, Drs. Kitamura, Kitamura and Accili highlight the importance of the forkhead protein, FoxO1, in pancreatic betacells. In addition to insulin and IGF-I, several other growth factors play an important role in modulating beta-cell growth. The pathway utilized by the hepatocyte growth factor is discussed by Drs. Gonzalez-Perusa, Alonso and Garcia-Ocana. The significance of pathways relevant for beta-cell proliferation and apoptosis during pregnancy and the postnatal period is nicely presented by Drs. Fujinaka, Wang, Matsushita and Vasavada. Together these chapters provide a comprehensive and...



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