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Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Biology of pancreas and possible diseases -- Chapter 2. Pancreatitis: Clinical aspects of inflammatory phenotypes -- Chapter 3. Diabetes and Pancreatic Cancer – A Bidirectional Relationship Perspective -- Chapter 4. Metabolic Adaptations in Diabetes Mellitus and Cancer -- Chapter 5. Role of Mitochondria in pancreatic metabolism, diabetes and cancer -- Chapter 6. Targeting Mitochondrial Enzymes in Pancreatic Cancer -- Chapter 7. Diabetes with Pancreatic ductal adenocarcinoma -- Chapter 8. Role of Inflammatory Cytokines in the initiation and progression of Pancreatic Cancer -- Chapter 9. Perspectives and molecular understanding of pancreatic cancer stem cells -- Chapter 10. The Role of Hypoxia Inducible Factor-1 in Pancreatic Cancer and Diabetes Mellitus -- Chapter 11. Role of Heat shock protein 90 in Diabetes and Pancreatic Cancer Management -- Chapter 12. Insulin resistance is a common core tethered to diabetes and pancreatic cancer risk -- Chapter 13. Immunotherapy for Diabetogenic Pancreatitis and Pancreatic Cancer: An Update -- Chapter 14. Exosomes: Mediators and Therapeutic Targets of Diabetes and Pancreatic Cancer -- Chapter 15. Methods and models in exploring

pancreatic functions.

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Sommario/riassunto

This book comprehensively describes the association between metabolic syndrome and pancreatic cancer progression, and the mechanism of action and target definition with a view to drug discovery. Metabolic syndrome, which includes abdominal obesity, hypertension, dyslipidemia, and hyperglycemia, has recently been shown to play an important role in the etiology and progression of various cancers. Further, obesity and diabetes have been associated with an increased incidence of gastric cancers. The book reviews the key biological mechanisms underlying the association between metabolic dysregulation, including obesity-associated enhancement of growth factor signaling, inflammation, and perturbation in pancreatic cancer cell growth and metastasis. It also illustrates the role of the inflammatory signaling pathway in metabolic diseases as well as tumor growth and explores the potential of these pathways as the rational targets for pancreatic cancer therapy. Lastly, the book offers a comprehensive description of the challenges associated with diabetes and pancreatic cancer therapy.

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