Record Nr. UNINA9910144640103321 Insulin resistance [[electronic resource]]: insulin action and its **Titolo** disturbances in disease / / editors, Sudhesh Kumar, Stephen O'Rahilly Pubbl/distr/stampa Chichester, West Sussex, England; ; Hoboken, N.J., : J. Wiley, c2005 **ISBN** 1-280-27609-6 9786610276097 0-470-01126-2 0-470-01132-7 Descrizione fisica 1 online resource (617 p.) Altri autori (Persone) KumarSudhesh O'RahillyS (Stephen) 612.34 Disciplina 616.4/6207 616.46207 Soggetti Insulin resistance Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Insulin Resistance: Contents: Preface: List of Contributors: 1 The Insulin Receptor and Downstream Signalling; 1.1 Introduction; 1.2 Insulin receptor structure and function; 1.3 Insulin receptor substrates; 1.4 Downstream signalling pathways; 1.5 The basis of insulin's signalling specificity; 1.6 Conclusion; References; 2 Insulin-mediated Regulation of Glucose Metabolism; 2.1 Introduction; 2.2 Insulin as a master regulator of whole body glucose disposal; 2.3 Insulin-mediated regulation of glucose metabolic pathways 2.4 Glucose uptake into skeletal muscle - the rate-limiting step in glucose metabolismAcknowledgements; References; 3 Insulin Action on Lipid Metabolism; 3.1 Introduction: does insulin affect lipid metabolism?: 3.2 Molecular mechanisms by which insulin regulates lipid metabolism; 3.3 Insulin and lipolysis; 3.4 Insulin, lipoprotein lipase and cellular fatty acid uptake; 3.5 Co-ordinated regulation of fatty acid synthesis and ketogenesis; 3.6 Insulin and cholesterol

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Sommario/riassunto

Diabetes is now one of the major causes of morbidity worldwide. In many cases, the onset of diabetes is progressive, developing via a condition of insulin resistance. This book considers the development of this condition, its consequences and clinical and therapeutic aspects. The book reviews the normal biology of insulin action on glucose, lipids and proteins. It considers the pathological basis for insulin resistance in animal models and humans, and discusses the influence of heredity, dietary factors and exercise. Clinical consequences including dyslipidaemia, hypertension and polycy