Record Nr. UNINA9910144740503321 Clinical diabetes research [[electronic resource]]: methods and **Titolo** techniques / / edited by Michael Roden Pubbl/distr/stampa Chichester, West Sussex, England;; Hoboken, N.J.,: John Wiley and Sons, c2007 **ISBN** 1-281-03198-4 9786611031985 0-470-51309-8 0-470-51308-X Descrizione fisica 1 online resource (424 p.) Altri autori (Persone) RodenMichael, Dr. 616.4620072 Disciplina Soggetti Diabetes Diabetes - Research 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 Clinical Diabetes Research; Contents; List of Contributors; 1 Basics of Clinical Metabolic Research: 2 Methods for the Assessment of -Cell Function In Vivo; Introduction; Methods for insulin secretion in vivo; cell response characteristics: -cell function tests: Modelling methods: -cell function and insulin sensitivity; Comparative evaluation of methods; Conclusion; 3 Assessment of Insulin Sensitivity from Steady-State and Dynamic Tests: Introduction: Insulin sensitivity from steadystate tests; Insulin sensitivity from dynamic tests; Conclusion; 4 Glucose Clamp Techniques; Introduction Basic principles of the euglycaemic hyperinsulinaemic clamp techniqueMethodology; Reproducibility of insulin sensitivity obtained from clamp tests; Safety considerations for hyperinsulinaemiac euglycaemic clamp test; Modifications of the euglycaemic hyperinsulinaemic clamp test protocol; Conclusion; 5 Methods of Assessment of Counterregulation to Hypoglycaemia; Introduction;

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Sommario/riassunto

A practical ""how to"" guide for multiple methods in metabolism, with a critical and objective discussion of strengths, limitations, and appropriate applications of the described methods. Edited by the winner of the Oskar-Minkowski Prize of the EASD in 2006 Clinical trials in populations at risk of or with overt diabetes mellitus are being performed all around the world to test novel drugs and approaches to managing these diseases. During the last decade, new methods and techniques have been introduced - and are being developed further - that facilitate monitoring of metaboli