Record Nr. UNINA9910877284003321 Promises and limits of reductionism in the biomedical sciences // Titolo edited by Marc H.V. Van Regenmortel, David L. Hull Pubbl/distr/stampa Chichester, West Sussex, England;; Hoboken, NJ, USA,: John Wiley & Sons, c2002 **ISBN** 1-280-27000-4 9786610270002 0-470-85417-0 0-470-85418-9 Descrizione fisica 1 online resource (393 p.) Altri autori (Persone) Van RegenmortelM. H. V HullDavid L 570 Disciplina 570/.1 660/.28443 Soggetti Reductionism Biology Psychology Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "... presentations made ... at the Philippe Laudat Conference on 'Promises and Limits of Reductionism in the Biomedical Sciences', held at the Abbey of Royaumont, north of Paris, on 22-24 May 2000"--Pref. Includes bibliographical references (p. 365-367) and index. Nota di bibliografia PROMISES AND LIMITS OF REDUCTIONISM IN THE BIOMEDICAL Nota di contenuto SCIENCES; Contents; Preface; Contributors; About the Editors; 1 Introduction: 2 Emergent Properties of Biological Molecules and Cells: 3 From Nineteenth Century Ideas on Reduction in Physiology to Non-Reductive Explanations in Twentieth-Century Biochemistry; 4 Pitfalls of Reductionism in Immunology; 5 Reductionism in Medicine: Social Aspects of Health; Questions and Discussion; 6 'Who's Afraid of Reductionism?' 'I Am!'; Questions and Discussion; Round Table Discussion 1: Chair - Alex Rosenberg; 7 Reductionism in an Historical Science Questions and Discussion8 Varieties of Reductionism: Derivation and

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Sommario/riassunto

Reductionism as a scientific methodology has been extraordinarily successful in biology. However, recent developments in molecular biology have shown that reductionism is seriously inadequate in dealing with the mind-boggling complexity of integrated biological systems. This title presents an appropriate balance between science and philosophy and covers traditional philosophical treatments of reductionism as well as the benefits and shortcomings of reductionism in particular areas of science. Discussing the issue of reductionism in the practice of medicine it takes into account the holis