1. Record Nr. UNINA9910824977303321 Nobel Prizes that changed medicine / / editor, Gilbert Thompson Titolo London:,:Imperial College Press,, 2012 Pubbl/distr/stampa **ISBN** 1-280-66902-0 9786613645951 1-84816-827-6 1 online resource (373 pages): illustrations, charts, portraits Descrizione fisica Altri autori (Persone) ThompsonG. R (Gilbert R.) Disciplina 610.79 Soggetti **Nobel Prizes** Medicine Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Nota di contenuto CONTENTS; Foreword by Sir Keith Peters; Preface by Gilbert Thompson; Acknowledgements; Contributors; Chapter 1 The Discovery of Insulin Robert Tattersall; 1.1 Introduction; 1.2 The Pancreas and Diabetes; 1.3 Banting and Macleod 9: 1.4 The First Clinical Test: 1.5 The Nobel Prize: 1.6 The Long-term Impact of the Discovery; References; Chapter 2 The Discovery of the Cure for Pernicious Anaemia, Vitamin B12 A. Victor Hoffbrand; 2.1 Introduction; 2.2 Brief Biographies; 2.2.1 George Whipple; 2.2.2 George Minot; 2.2.3 William Murphy; 2.3 The Medical Problem; 2.4 Possible Mechanisms 2.4.1 The nutritional deficiency concept 2.4.2 Why liver therapy worked; 2.5 Subsequent Research; 2.5.1 Isolation of vitamin B12; 2.5.2 Extrinsic and intrinsic factors; 2.5.3 Discovery of folic acid; 2.5.4 Two vitamins; 2.5.5 Vitamin B12/folate interactions; 2.5.6 Neurological damage; 2.5.7 Systemic effects of vitamin and folate deficiencies; 2.6 Impact of the Discovery of Vitamin B12 on Medical Practice: References: Chapter 3 The Discovery of Penicillin Eric Sidebottom; 3.1 Introduction; 3.2 Biographical Sketches 10; 3.2.1 Alexander Fleming; 3.2.1.1 Education and career 3.2.1.2 The antibiotic revolution and the Fleming myth 3.2.1.3 The man and his achievements; 3.2.2 Howard Florey; 3.2.2.1 Move to England;

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Sommario/riassunto

This book brings together in one volume fifteen Nobel Prize-winning discoveries that have had the greatest impact upon medical science and the practice of medicine during the 20th century and up to the present time. Its overall aim is to enlighten, entertain and stimulate. This is especially so for those who are involved in or contemplating a career in medical research. Anyone interested in the particulars of a specific award or Laureate can obtain detailed information on the topic by accessing the Nobel Foundation's website. In contrast, this book aims to provide a less formal and more person