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Autore	Best Charles Herbert
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Nota di contenuto	Frontmatter -- Publisher's Note -- Foreword / Dale, Henry H. -- Preface -- Contents -- Introduction / Joslin, Elliott P. -- 1. A Canadian Trail of Medical Research -- Part I: Insulin And Glucagon -- 2. The internal secretion of the pancreas (selected pages of the original manuscript). F. G. Banting and C. H. Best. 1921 -- 3. The internal secretion of the pancreas. F. G. Banting and C. H. Best. Trans. Acad. Med. Toronto, 1920-22 / Banting, F.G. / Best, C. H. -- 4. The Internal Secretion of the Pancreas / Banting, F. G. / Best, C.H. -- 5. Pancreatic Extracts / Banting, F. G. / Best, G H. -- 6. Preliminary Studies on the Physiological Effects of Insulin / Banting, F. G. / Best, C. H. / Collip, J.B. / Macleod, J. J. R. -- 7. Pancreatic Extracts in the Treatment of Diabetes Mellitus: Preliminary Report / Banting, F. G. / Best, C. H. / Collip, J. B. / Campbell, W. R. / Fletcher, A.A. -- 8. The Effects of Insulin on Experimental Hyperglycaemia in Rabbits / Banting, F. G. / Best, C. H. / Collip, J. B. / Macleod, J.J.R. / Noble, E. C. -- 9. The Preparation of Insulin / Best, C. H. / Scott, D. A. -- 10. The Effect of Insulin on the Dextrose Consumption of Perfused Skeletal Muscle / Best, Charles H. -- 11. The Fate of the Sugar Disappearing under the Action of Insulin / Best, C. H. / Hoet, J. P. / Marks, H. P. -- 12. Oxidation and Storage of Glucose under the Action of Insulin / Best, C. H. / Dale, H. H. / Hoet, J. P. / Marks, H. P. -- 13. Insulin in Tissues other than the Pancreas /

Best, C. H. / Jephcott, C. M. / Scott, D. A. -- 14. Diet and the Insulin Content of Pancreas / Best, C.H. / Haist, R.E. / Ridout, Jessie H. -- 15. Insulin Extractable from the Pancreas and Islet Cell Histology / Wrenshall, Gerald A. / Hartroft, W. Stanley / Best, Charles H. -- 16. Extractable Insulin of the Pancreas and Effectiveness of Oral Hypoglycaemic Sulphonylureas in the Treatment of Diabetes in Man-A Comparison / Wrenshall, G. A. / Best, C. H. -- 17. A Study of the Prevalence of Diabetes in an Ontario Community / Kenny, A. J. / Chute, A. L. / Best, C. H. -- 18. The Prevention of Diabetes / Haist, R. E. / Best, C. H. -- 19. The Protein Anabolic Effect of Testosterone Propionate and its Relationship to Insulin / Sirek, O. V. / Best, C. H. -- 20. The Pathologic Effects of Large Amounts of Glucagon / Salter, J. M. / Davidson, I. W. F. / Best, Charles H. -- 21. Glucagon and Metaglucon Diabetes in Rabbits / Logothetopoulos, J. / Sharma, B. B. / Salter, J. M. / Best, C. H. -- 22. Effect of Insulin and Glucagon on Tumour Growth / Salter, J. M. / Meyer, R. De / Best, C. H. -- 23. Effect of Prolonged Administration of Tolbutamide in Depancreatized Dogs / Sirek, Anna / Sirek, Otakar V. / Hanus, Y. / Monkhouse, F. C. / Best, C. H. -- 24. A Clinical Assessment of Foetal Calf Insulin / Salter, J. M. / Sirek, O. V. / Abbott, M. M. / Leibel, B. S. -- 25. The Late John James Rickard Macleod / Best, C. H. -- 26. Frederick Grant Banting, 1891-1941 / Best, C. H. -- 27. Reminiscences of the Researches Which Led to the Discovery of Insulin / Best, C. H. -- 28. The Banting Memorial Lecture: Insulin and diabetes in retrospect and in prospect. 1945 / Best, G H. -- 29. The Banting Memorial Lecture: Insulin. 1952 / Best, Charles H. -- 30. Diabetes since 1920 / Best, Charles H. -- 31. Insulin and Glucagon: A Review / Metz, Robert / Best, Charles H. -- 32. The Future in the Field of Diabetes / Best, Charles H. -- Part II: Choline and Lipotropic Phenomena -- 33. A Brief History of the Discovery of the Lipotropic Factors / Best, Charles H. -- 34. The Effect of Lecithine on Fat Deposition in the Liver of the Normal Rat / Best, C. H. / Hershey, J. M. / Huntsma, M. Elinor -- 35. The Effects of the Components of Lecithine upon Deposition of Fat in the Liver / Best, C. H. / Huntsma, M. Elinor -- 36. Choline and the Dietary Production of Fatty Livers / Best, C. H. / Channon, H. J. / Ridou, Jessie H. -- 37. The Distribution of Choline / Fletcher, John Palmer / Best, Charles Herbert / Solandt, Omond McKillop -- 38. The Effects of Cholesterol and Choline on Liver Fat / Best, C. H. / Ridout, Jessie H. -- 39. The Effect of Anterior Pituitary Extracts on the Liver Fat of Various Animals / Best, C. H. / Campbell, James -- 40. A Study of the Source of Liver Fat Using Deuterium as an Indicator / Barrett, H. M. / Best, C. H. / Ridout, Jessie H. -- 41. The Lipotropic Action of Methionine / Best, C. H. / Ridout, Jessie H. -- 42. The Mode of Action of Lipotropic Agents: Proof of the in Vivo Incorporation of Triethyl--hydroxyethyl- ammonium Hydroxide into the Phospholipid Molecule / McArthur, C. S. / Lucas, C. C. / Best, C. H. -- 43. Hypertension of Renal Origin in Rats Following less than One Week of Choline Deficiency in Early Life / Hartroft, W. Stanley / Best, Charles H. -- 44. Liver Damage Produced by Feeding Alcohol or Sugar and its Prevention by Choline / Best, C. H. / Hartroft, W. Stanley / Lucas, C. C. / Ridout, Jessie H. -- 45. Effects of Dietary Protein, Lipotropic Factors, and Re-alimentation on Total Hepatic Lipids and Their Distribution / Best, C. H. / Hartroft, W. S. / Lucas, C. C. / Ridout, Jessie H. -- 46. Lipotropic Dose-Response Studies in Rats: Comparisons of Choline, Betaine and Methionine / Young, R. J. / Lucas, C. C. / Patterson, Jean M. / Best, C. H. -- 47. Kwashiorkor Type of Fatty Liver in Primates / Wilgram, George F. / Lucas, Colin C. / Best, Charles H. -- 48. The Croonian Lecture: The lipotropic agents in the protection of the liver, kidney, heart and other organs of experimental animals /

Best, Charles H. -- Part III: Other Physiological Studies -- 49. Observations on Olympic Athletes / Best, C. H. / Partridge, Ruth C. -- 50. The Nature Of The Vaso-Dilator Constituents Of Certain Tissue Extracts / Best, C. H. / Dale, H. H. / Dudley, H. W. / Thorpe, W. V. -- 51. The Disappearance of Histamine from Autolysing Lung Tissue / Best, Charles H. -- 52. The Inactivation of Histamine / Best, C. H. / McHenry, E. W. -- 53. Preparation of Heparin and its Use in the First Clinical Cases / Best, Charles H. -- 54. Heparin and the Thrombosis of Veins Following Injury / Murray, G. D. W. / Jaques, L. B. / Perrett, T. S. / Best, C. H. -- 55. Heparin and the Formation of White Thrombi / Best, C. H. / Cowan, Campbell / MacLean, D. L. -- 56. Heparin and Coronary Thrombosis in Experimental Animals / Solandt, D. Y. / Best, C. H. -- 57. Experimental Exchange Transfusion Using Purified Heparin / Thalhimer, William / Solandt, D. Y. / Best, C. H. -- 58. The Canadian Project for the Preparation of Dried Human Serum for Military Use / Best, C. H. / Solandt, D. Y. / Ridout, Jessie H. -- Part IV: General Papers -- 59. The Division of Naval Medical Research, Royal Canadian Navy / Best, Charles H. -- 60. The Organization of Physiology / Best, Charles H. -- 61. Convocation Address, University of Maine, August 12, 1955 / Best, Charles H. -- Part V: Epilogue -- Bibliography

## Sommario/riassunto

The name of Charles H. Best, co-discoverer of insulin, Head of the Department of Physiology and Director of the Banting and Best Department of Medical Research in the University of Toronto, is familiar to medical and lay readers all over the world. The story of his early insulin research with Dr. Frederick Banting, as a result of which men and women and children who forty years ago would have had only months or days to live are now spared, has been one of the most dramatic in the annals of medicine. This volume records the achievements of forty years of medical research, giving direct and easy access to over sixty of Dr. Best's original important research papers in the fields particularly of insulin, heparin, and choline. It opens with the early papers describing the discovery of insulin, and continues with those dealing with its preparation, extraction, physiologic effects and first clinical applications. Dr. Best has also looked back over the record as given in these papers and provided informative and informal bridges between them which place them in historical perspective. Among medical scientists Dr. Best is equally well known for initiating and developing modern knowledge of heparin and its use in controlling unwanted clotting of the blood (thrombosis). The discovery of the nutritional importance of choline as a dietary factor that protects the liver was made by Dr. Best and his colleagues in 1932 and this subject has received continued study in Toronto. A number of papers dealing with choline and its dietary precursors (the so-called lipotropic agents) are reproduced in these pages. Other papers discuss the action of histamine, the pioneer Canadian work on collection and storage of blood serum and early experiences with the preparation of dried serum. A brief account of the contribution of Dr. Best and his colleagues to the Naval Medicine is included. Medical readers will find here a valuable condensation of all the enormous body of information on these subjects. All the references in the original papers have been re-assembled in a master bibliography which is a new and full storehouse of references. Most of the papers collected in this volume have been produced in collaboration with medical colleagues to whom Dr. Best at all times gives full and enthusiastic recognition. Indeed readers will receive a strong impression that while co-operation and collaboration in medicine are nothing new, the various teams assembled by Dr. Best at the University of Toronto have had an especially remarkable dedication and sense of excitement in the

adventure of medical research.

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