

The Discovery Of Insulin 25th Anniversary Edition

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William Osler
Nutrition and Diet Factors in Type 2 Diabetes
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The Long and the Short of It
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Major Topics in Type 1 Diabetes
Body-mass Index and Health
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Banting
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XXV
Diabetes Type I & II - Cure in 72 Hrs
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Blood-vessel Surgery and Its Applications
The Diabetes Textbook
History of the Pancreas: Mysteries of a Hidden Organ
Textbook of Diabetes and Pregnancy

Diabetes and Its Complications

This book collects reviews and original articles from eminent experts working in the interdisciplinary arena of nanotechnology use in drug delivery. From their direct and recent experience, the readers can achieve a wide vision on the new and ongoing potentialities of nanotechnology application of drug delivery. Since the advent of analytical techniques and capabilities to measure particle sizes in nanometer ranges, there has been tremendous interest in the use of nanoparticles for more efficient methods of drug delivery. On the other hand, this reference discusses advances in design, optimization, and adaptation of gene delivery systems for the treatment of cancer, cardiovascular, pulmonary, genetic, and infectious diseases, and considers assessment and review procedures involved in the development of gene-based pharmaceuticals.

Loonshots

Everything that lives will die. That's the fundamental fact of life. But not everyone dies at the same age: people vary wildly in their patterns of aging and their life spans—and that variation is nothing compared to what's found in other animal and plant species. A giant fungus found in Michigan has been alive since the Ice Age, while a dragonfly lives but four months, a mayfly half an hour. What accounts for these variations—and what can we learn from them that might help us understand, or better manage, our own aging? With *The Long and the Short of It*, biologist and writer Jonathan Silvertown offers readers a witty and fascinating tour through the scientific study of longevity and aging. Dividing his daunting subject by theme—death, life span, aging, heredity, evolution, and more—Silvertown draws on the latest scientific developments to paint a picture of what we know about how life span, senescence, and death vary within and across species. At every turn, he addresses fascinating questions that have far-reaching implications: What causes aging, and what determines the length of an individual life? What changes have caused the average human life span to increase so dramatically—fifteen minutes per hour—in the past two centuries? If evolution favors those who leave the most descendants, why haven't we evolved to be immortal? The answers to these puzzles and more emerge from close examination of the whole natural history of life span and aging, from fruit flies, nematodes, redwoods, and much more. *The Long and the Short of It* pairs a perpetually

fascinating topic with a wholly engaging writer, and the result is a supremely accessible book that will reward curious readers of all ages.

Application of Nanotechnology in Drug Delivery

Morgan was diagnosed with Type 1 Diabetes at 6 years old -- but that didn't stop her! In this informative memoir, she looks back at her life and shares her experiences to help others who've been diagnosed, and their families, to understand everything from the gadgets to the legislation, the joy and the frustrations. Morgan has dedicated her life to the advocacy and education of her disease.

Sugar Surfing

"One of the most productive of all laboratory animals, *Drosophila* has been a key tool in genetics research for nearly a century. At the center of *Drosophila* culture from 1910 to 1940 was the school of Thomas Hunt Morgan and his students Alfred Sturtevant and Calvin Bridges, who, by inbreeding fruit flies, created a model laboratory creature - the 'standard' fly. By examining the material culture and working customs of Morgan's research group, [the author] brings to light essential features of the practice of experimental science. [This book] takes a broad view of experimental work, ranging from how the fly was introduced into the laboratory and how it was physically redesigned for use in genetic mapping, to how the 'Drosophilists' organized an international network for exchanging fly stocks that spread their practices around the world"--Back cover.

Hallelujah Moments

Diabetes is a complex, progressive disease, which is accompanied by several complications. It is listed among the most common endocrine disorders and a global metabolic epidemic disease. This book focuses on the recent progress in diabetes research worldwide. It has been written by extensively acknowledged experts, with each chapter providing a unique data on developing features of diabetes. It covers the interactions between diabetes and several disorders. Also, it suggests some treatments for this disease offering us hope in prevention and successful improvement.

The Remedy

Originally published in 1997, DR. BERNSTEIN'S DIABETES SOLUTION is a unique resource that covers both adult- and childhood-onset diabetes, explains step-by-step how to normalize blood sugar levels and prevent or reverse complications, and offers detailed guidelines for establishing a treatment plan. Readers will find fifty gourmet recipes, in addition to a comprehensive discussion of diet, obesity, and new drugs to curb carbohydrate craving and overeating. Now in its fourth edition, the book presents up-to-the-minute information on insulin resistance, blood-testing devices, measuring blood sugar, new types of insulin, gastroparesis and other issues, as well as updated diet guidelines. DR. BERNSTEIN'S DIABETES SOLUTION is the one book every diabetic must own.

The Annotated and Illustrated Double Helix

The discovery of insulin at the University of Toronto in 1921-22 was one of the most dramatic

events in the history of the treatment of disease. Insulin was a wonder-drug with ability to bring patients back from the very brink of death, and it was no surprise that in 1923 the Nobel Prize for Medicine was awarded to its discoverers, the Canadian research team of Banting, Best, Collip, and Macleod. In this engaging and award-winning account, historian Michael Bliss recounts the fascinating story behind the discovery of insulin – a story as much filled with fiery confrontation and intense competition as medical dedication and scientific genius. Originally published in 1982 and updated in 1996, *The Discovery of Insulin* has won the City of Toronto Book Award, the Jason Hannah Medal of the Royal Society of Canada, and the William H. Welch Medal of the American Association for the History of Medicine.

Medical Pharmacology and Therapeutics E-Book

Gynecology is frequently changing due to extensive implementation of high technology in both, the diagnosis and management of gynecologic problems. General gynecologists, gynecologic endocrinologists, infertility specialists, gynecologic endoscopists, and gynecologic oncologists will find attractive, new information in this book.

William Osler

Nutrition and Diet Factors in Type 2 Diabetes

It is 1919 and Elizabeth Hughes, the eleven-year-old daughter of America's most-distinguished jurist and politician, Charles Evans Hughes, has been diagnosed with juvenile diabetes. It is essentially a death sentence. The only accepted form of treatment – starvation – whittles her down to forty-five pounds skin and bones. Miles away, Canadian researchers Frederick Banting and Charles Best manage to identify and purify insulin from animal pancreases – a miracle soon marred by scientific jealousy, intense business competition and fistfights. In a race against time and a ravaging disease, Elizabeth becomes one of the first diabetics to receive insulin injections – all while its discoverers and a little known pharmaceutical company struggle to make it available to the rest of the world. Relive the heartwarming true story of the discovery of insulin as it's never been told before. Written with authentic detail and suspense, and featuring walk-ons by William Howard Taft, Woodrow Wilson, and Eli Lilly himself, among many others.

The Discovery of Insulin

The author of *The Discovery of Insulin* chronicles the professional and personal life of Harvey Cushing, a giant of American medicine and the greatest figure in the history of brain surgery.

Designing Human Practices

In his time the most famous physician in the world, Canadian-born William Osler (1849-1919) is still the best-known figure in the history of medicine. This new, definitive biography by Michael Bliss is the first full-scale life of Osler to appear since 1925. An award-winning medical historian, Bliss draws on many untapped sources to recreate Osler's life and medical times for a new generation of readers. Born at Bond Head, north of Toronto, Osler rose from obscurity to become the greatest medical teacher and writer in three countries. At Canada's McGill University, America's Johns Hopkins University, and finally as regius professor at Oxford, Osler

was idolized by two generations of medical students and practitioners, for whom he came to personify the ideal doctor. His quest was to bring high standards and scientific methods into general practice in the medical world and to give teaching hospitals a solid place in the education of doctors. The publication of his book, *The Principles and Practice of Medicine* (1892), established him as the authority of modern medicine, a position he held well into the new century. Osler was revered as the high priest of the advent of twentieth-century medicine. In this fine biography, Michael Bliss animates the epic quality of Osler's life - not only in telling his personal story, but in setting that story against the dramatic backdrop of the coming of modern medicine. Winner of the Jason A. Hannah Medal, awarded by the Royal Society of Canada and the Hannah Institute for the History of Medicine

Chinese Medical Therapies for Diabetes, Infertility, Silicosis and the Theoretical Basis

Babies of women with diabetes are nearly five times more likely to be stillborn and almost three times more likely to die in the first three months. The incidence of gestational diabetes mellitus in the U.S. is high—between 3 and 7 percent—and rising. The condition is often complicated by other risk factors such as obesity and heart disease. *The Textbook of Diabetes and Pregnancy* presents a comprehensive review of the science, clinical management, and medical implications of gestational diabetes mellitus, a condition with serious consequences that is on the increase in all developed societies. This new edition supports the latest initiatives and strategies of the International Federation of Gynecology and Obstetrics (FIGO) and adds chapters on noncommunicable diseases, obesity, bariatric surgery, and epidemiology outside Western cultures. Written by a cadre of experts, the book provides a comprehensive, authoritative, and international view of gestational diabetes mellitus and will be invaluable to maternal-fetal medicine specialists, diabetologists, neonatologists, and a growing number of gynecologists and general physicians concerned with the management of noncommunicable diseases in pregnancy.

The Long and the Short of It

*Wall Street Journal bestseller *Next Big Idea Club selection—chosen by Malcolm Gladwell, Susan Cain, Dan Pink, and Adam Grant as one of the "two most groundbreaking new nonfiction reads of the season" *Washington Post's "10 Leadership Books to Watch for in 2019" *Inc.com's "10 Business Books You Need to Read in 2019" *Business Insider's "14 Books Everyone Will Be Reading in 2019" "This book has everything: new ideas, bold insights, entertaining history and convincing analysis. Not to be missed by anyone who wants to understand how ideas change the world." —Daniel Kahneman, winner of the Nobel Prize and author of *Thinking, Fast and Slow* What do James Bond and Lipitor have in common? What can we learn about human nature and world history from a glass of water? In *Loonshots*, physicist and entrepreneur Safi Bahcall reveals a surprising new way of thinking about the mysteries of group behavior that challenges everything we thought we knew about nurturing radical breakthroughs. Drawing on the science of phase transitions, Bahcall shows why teams, companies, or any group with a mission will suddenly change from embracing wild new ideas to rigidly rejecting them, just as flowing water will suddenly change into brittle ice. Mountains of print have been written about culture. *Loonshots* identifies the small shifts in structure that control this transition, the same way that temperature controls the change from water to ice. Using examples that range from the spread of fires in forests to the hunt for terrorists online, and stories of thieves and geniuses and kings, Bahcall shows how this new kind of science

helps us understand the behavior of companies and the fate of empires. Loonshots distills these insights into lessons for creatives, entrepreneurs, and visionaries everywhere. Over the past decade, researchers have been applying the tools and techniques of phase transitions to understand how birds flock, fish swim, brains work, people vote, criminals behave, ideas spread, diseases erupt, and ecosystems collapse. If twentieth-century science was shaped by the search for fundamental laws, like quantum mechanics and gravity, the twenty-first will be shaped by this new kind of science. Loonshots is the first to apply these tools to help all of us unlock our potential to create and nurture the crazy ideas that change the world.

Bittersweet

The body mass index has an important place in weight control. Attention should be paid to the regularization of anthropometric measures and to physical activity to protect from increasing obesity that is associated with chronic noncommunicable conditions, such as diabetes mellitus, cancers and cardiovascular diseases. Also, attention should be paid to the countries that are developing. The daily intake of calories, carbohydrates, oils and proteins, fibers, vitamins and minerals and clean water is essential for all individuals, especially for children and for pregnant women.

Glucose Intake and Utilization in Pre-Diabetes and Diabetes

The riveting history of tuberculosis, the world's most lethal disease, the two men whose lives it tragically intertwined, and the birth of medical science. In 1875, tuberculosis was the deadliest disease in the world, accountable for a third of all deaths. A diagnosis of TB—often called consumption—was a death sentence. Then, in a triumph of medical science, a German doctor named Robert Koch deployed an unprecedented scientific rigor to discover the bacteria that caused TB. Koch soon embarked on a remedy—a remedy that would be his undoing. When Koch announced his cure for consumption, Arthur Conan Doyle, then a small-town doctor in England and sometime writer, went to Berlin to cover the event. Touring the ward of reportedly cured patients, he was horrified. Koch's "remedy" was either sloppy science or outright fraud. But to a world desperate for relief, Koch's remedy wasn't so easily dismissed. As Europe's consumptives descended upon Berlin, Koch urgently tried to prove his case. Conan Doyle, meanwhile, returned to England determined to abandon medicine in favor of writing. In particular, he turned to a character inspired by the very scientific methods that Koch had formulated: Sherlock Holmes. Capturing the moment when mystery and magic began to yield to science, *The Remedy* chronicles the stunning story of how the germ theory of disease became a true fact, how two men of ambition were emboldened to reach for something more, and how scientific discoveries evolve into social truths.

The Pancreatic Beta Cell

Animals and Medicine: The Contribution of Animal Experiments to the Control of Disease offers a detailed, scholarly historical review of the critical role animal experiments have played in advancing medical knowledge. Laboratory animals have been essential to this progress, and the knowledge gained has saved countless lives—both human and animal. Unfortunately, those opposed to using animals in research have often employed doctored evidence to suggest that the practice has impeded medical progress. This volume presents the articles Jack Botting wrote for the *Research Defence Society News* from 1991 to 1996, papers which provided scientists with the information needed to rebut such claims. Collected, they can now reach a

wider readership interested in understanding the part of animal experiments in the history of medicine—from the discovery of key vaccines to the advancement of research on a range of diseases, among them hypertension, kidney failure and cancer. This book is essential reading for anyone curious about the role of animal experimentation in the history of science from the nineteenth century to the present.

Major Topics in Type 1 Diabetes

This book is a printed edition of the Special Issue "Nutrition and Diet Factors in Type 2 Diabetes" that was published in *Nutrients*

Body-mass Index and Health

Vitamin D and Human Health

Recounts the life of the Canadian doctor and how his research led to the discovery of insulin and a treatment for diabetes.

The Discovery of Insulin

One of medicine's most remarkable therapeutic triumphs was the discovery of insulin in 1921. The drug produced astonishing results, rescuing children and adults from the deadly grip of diabetes. But as Chris Feudtner demonstrates, the subsequent transformation of the disease from a fatal condition into a chronic illness is a story of success tinged with irony, a revealing saga that illuminates the complex human consequences of medical intervention. *Bittersweet* chronicles this history of diabetes through the compelling perspectives of people who lived with this disease. Drawing on a remarkable body of letters exchanged between patients or their parents and Dr. Elliot P. Joslin and the staff of physicians at his famed Boston clinic, Feudtner examines the experience of living with diabetes across the twentieth century, highlighting changes in treatment and their profound effects on patients' lives. Although focused on juvenile-onset, or Type 1, diabetes, the themes explored in *Bittersweet* have implications for our understanding of adult-onset, or Type 2, diabetes, as well as a host of other diseases that, thanks to drugs or medical advances, are being transformed from acute to chronic conditions. Indeed, the tale of diabetes in the post-insulin era provides an ideal opportunity for exploring the larger questions of how medicine changes our lives.

Lords of the Fly

Making PCR is the fascinating, behind-the-scenes account of the invention of one of the most significant biotech discoveries in our time—the polymerase chain reaction. Transforming the practice and potential of molecular biology, PCR extends scientists' ability to identify and manipulate genetic materials and accurately reproduces millions of copies of a given segment in a short period of time. It makes abundant what was once scarce—the genetic material required for experimentation. *Making PCR* explores the culture of biotechnology as it emerged at Certus Corporation during the 1980s and focuses on its distinctive configuration of scientific, technical, social, economic, political, and legal elements, each of which had its own separate trajectory over the preceding decade. The book contains interviews with the remarkable cast of characters who made PCR, including Kary Mullin, the maverick who received the Nobel prize

for "discovering" it, as well as the team of young scientists and the company's business leaders. This book shows how a contingently assembled practice emerged, composed of distinctive subjects, the site where they worked, and the object they invented. "Paul Rabinow paints a . . . picture of the process of discovery in *Making PCR: A Story of Biotechnology* [and] teases out every possible detail. . . . Makes for an intriguing read that raises many questions about our understanding of the twisting process of discovery itself."—David Bradley, *New Scientist* "Rabinow's book belongs to a burgeoning genre: ethnographic studies of what scientists actually do in the lab. . . . A bold move."—Daniel Zalewski, *Lingua Franca* "[*Making PCR* is] exotic territory, biomedical research, explored. . . . Rabinow describes a dance: the immigration and repatriation of scientists to and from the academic and business worlds."—Nancy Maull, *New York Times Book Review*

The Republic of Color

This book covers all the pharmacology you need, from basic science pharmacology and pathophysiology, through to clinical pharmacology to therapeutics, in line with the integrated approach of new medical curricula. The first section covers the basic principles, and the rest is organised by body systems. The book ends with sections on toxicity and prescribing practice. Integrates basic science pharmacology, clinical pharmacology and therapeutics Brief review of pathophysiology of major diseases Case histories and multiple choice questions (and answers) Tabular presentation of all common drugs within each class Section on further reading Kinetics chapter simplified with more practical examples Includes more on genetic issues Drug tables made more concise to make information more accessible Fully updated to reflect current clinical practice

Frederick Banting and the Discovery of Insulin

Biochemical Basis of Medicine discusses academic biochemistry and the applications of biochemistry in medicine. This book deals with the biochemistry of the subcellular organelles, the biochemistry of the body , and of the specialized metabolism occurring in many body tissues. This text also discusses the various applications of biochemistry as regards environmental hazards, as well as in the diagnosis of illnesses and their treatment. This text explains the structure of the mammalian cell, the cell's metabolism, the nutritional requirements of the whole body, and the body's metabolism. This book explains the specialized metabolisms involved in tissues such as those occurring in blood clotting, in the liver during carbohydrate metabolism, or in the kidneys during water absorption. The text explains toxicology or biochemical damage caused by excess presence of copper, mercury, or lead in the body. Chelation therapy can remove these toxic metals. This book describes the effects of alcohol on plasma liquids, the multistage concept of carcinogenesis, and the biochemical basis of diagnosis. Diagnosis and treatment include the determination of typical enzymes found in the plasma, tests for genetic defects in blood proteins, and the use of chemotherapeutic drugs. This book is suitable for chemists, students and professors in organic chemistry, and laboratory technicians whose work is related to pharmacology.

Banting

Traditional Chinese medicine (TCM) is the world's most comprehensive alternative and complementary medicine. With the rising morbidity of serious illnesses like diabetes, infertility, silicosis, etc., there are no highly effective treatments; even though Western medicine has

made spectacular advances, this influenced us to seek Chinese medical therapies of health care. This book offers a unique perspective of Chinese medicine theories and therapies. It has practical chapters on diabetes, infertility, silicosis, kidney essence, and a compilation of contraindicated Chinese medicines for pregnancy. TCM is a treasure, and this ancient wisdom should be respected and applied to the modern medical system; it will provide more choices and a wider field of vision for Western medicine at the two cognitive crossroads of East and West.

Making PCR

This important reference, edited by Ronald Ross Watson and Betsy Dokken, collects the research needed to make the distinct connection between pre-diabetes, diabetes, and cardiovascular disease. *Glucose Intake and Utilization in Pre-Diabetes and Diabetes: Implications for Cardiovascular Disease* explains the mechanisms of progression from pre-diabetes to diabetes to cardiovascular disease. Since pre-diabetes and diabetes are important cardiovascular disease risk factors, and impaired glucose metabolism among cardiac patients is extremely prevalent, the importance of reviewing pre-diabetes and its involvement in CVD complications is vital as one applies food and glycemic control to slow progress to diabetes and heart disease. The book further focuses on glucose intake and utilization in diabetes, including coverage of diabetes in the development and pathology of cardiovascular disease, risks and epidemiology of cardiovascular problems promoted by diabetes, macrovascular effects and their safety in therapy of diabetics, beta cell biology and therapy of diabetes, and nutrition to modulate diabetes. Offers a complete review of cardiac health problems occurring with significant frequency in patients relative to their ability to regulate glucose. Presents coverage of the role of glucose utilization, development of pre-diabetes and the ultimate development of various cardiovascular diseases. Provides thorough dietary, nutrition, complementary and alternative botanical therapies for pre-diabetes and diabetes to halt the progression to cardiovascular disease.

Animals and Medicine

Diabetes has become a worldwide health problem, the global estimated prevalence approaches ten percent and the burden of this disease in terms of morbidity and mortality is unprecedented. The advances acquired through the knowledge of the mechanisms of the disease and the variety of therapeutic approaches contrast with the inability of private and public health systems in underdeveloped and even developed countries to achieve the goals of treatment. This paradox has been described in many sources: the surge of scientific advances contrast with an unprecedented amount of human suffering. Thus, a patient centered and an evidence based approach with the capacity to produce measurable clinical and economic outcomes is required. The purpose of this textbook is multiple: to offer a comprehensive resource covering all aspects of outpatient management; to address diabetes as a health problem from an epidemiological, economic and clinical perspective; to discuss the role of social determinants of health on the worldwide increase in diabetes; to highlight the challenges and obstacles in providing adequate care; and to outline a multidisciplinary approach to management in which medical visits retain their importance as part of a team comprising the patient, his or her family and a multidisciplinary group of health professionals who are able to move beyond the traditional approach of diabetes as a disease and greatly improve outcomes.

Children and Exercise XXV

Never before has a comprehensive history of the pancreas like *History of the Pancreas* been published. It not only is a historical review of the science of medicine, it is liberally interspersed with anecdotal vignettes of the researchers who have worked on this organ. Much of it, such as the discovery of the duct of Wirsüng, of the islets of Langerhans, of insulin, gastrin and their tumors, reads like the adventure, which it is. This book, divided into 14 chapters, is written in a narrative style and is easily readable, as glimpses of the investigators, those who failed as well as those who succeeded, adds both perspective and human interest. Each chapter is completely referenced, totaling over 1500 references. As a reference book for students, teachers, investigators, writers, its detailed historical documentation is unique. From the pre-Christian era of Asia Minor, to Greece, Rome, Europe and America, to the explosive progress in Japan, the history is there. *History of the Pancreas: Mysteries of a Hidden Organ* fills a gap.

Diabetes Type I & II - Cure in 72 Hrs

The Republic of Color delves deep into the history of color science in the United States to unearth its origins and examine the scope of its influence on the industrial transformation of turn-of-the-century America. For a nation in the grip of profound economic, cultural, and demographic crises, the standardization of color became a means of social reform—a way of sculpting the American population into one more amenable to the needs of the emerging industrial order. Delineating color was also a way to characterize the vagaries of human nature, and to create ideal structures through which those humans would act in a newly modern American republic. Michael Rossi's compelling history goes far beyond the culture of the visual to show readers how the control and regulation of color shaped the social contours of modern America—and redefined the way we see the world.

Harvey Cushing

Frederick Banting was thirty-one when he received the Nobel Prize for his part in the discovery of insulin. He was catapulted to instant fame, for which he was neither personally nor professionally prepared. Set up as head of his own research institute by a grateful government, he struggled fruitlessly to duplicate his first triumph. His marriage to a beautiful socialite ended in a scandal that rocked Toronto, and he returned to work and painting to dull his frustration. He died in a mysterious plane crash; a new preface to this edition discusses recent findings about the crash. Michael Bliss's highly acclaimed biography explores the life of a scientist who during his lifetime was the most famous of all Canadians, but who in his private life stands revealed as a passionate, troubled man, in many ways the victim of his own fame.

Actually, I Can.: Growing Up with Type 1 Diabetes, A Story of Unexpected Empowerment

Published to mark the fiftieth anniversary of the Nobel Prize for Watson and Crick's discovery of the structure of DNA, an annotated and illustrated edition of this classic book gives new insights into the personal relationships between James Watson, Frances Crick, Maurice Wilkins, and Rosalind Franklin, and the making of a scientific revolution.

Contemporary Gynecologic Practice

In Partnership for Excellence, senior medical historian and award-winning author Edward Shorter details the Faculty of Medicine's history from its inception as a small provincial school

to its present day status as an international powerhouse.

Biochemical Basis of Medicine

The discovery of insulin at the University of Toronto in 1921-22 was one of the most dramatic events in the history of the treatment of disease. Insulin was a wonder-drug with ability to bring patients back from the very brink of death, and it was no surprise that in 1923 the Nobel Prize for Medicine was awarded to its discoverers, the Canadian research team of Banting, Best, Collip, and Macleod. In this engaging and award-winning account, historian Michael Bliss recounts the fascinating story behind the discovery of insulin – a story as much filled with fiery confrontation and intense competition as medical dedication and scientific genius. Originally published in 1982 and updated in 1996, The Discovery of Insulin has won the City of Toronto Book Award, the Jason Hannah Medal of the Royal Society of Canada, and the William H. Welch Medal of the American Association for the History of Medicine.

Partnership for Excellence

First published in 1943, Vitamins and Hormones is the longest-running serial published by Academic Press. The Series provides up-to-date information on vitamin and hormone research spanning data from molecular biology to the clinic. A volume can focus on a single molecule or on a disease that is related to vitamins or hormones. A hormone is interpreted broadly so that related substances, such as transmitters, cytokines, growth factors and others can be reviewed. This volume focuses on the pancreatic beta cell. Expertise of the contributors Coverage of a vast array of subjects In depth current information at the molecular to the clinical levels Three-dimensional structures in color Elaborate signaling pathways

Breakthrough

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Dr. Bernstein's Diabetes Solution

In 2006 anthropologists Paul Rabinow and Gaymon Bennett set out to rethink the role that human sciences play in biological research, creating the Human Practices division of the Synthetic Biology Engineering Research Center—a facility established to create design standards for the engineering of new enzymes, genetic circuits, cells, and other biological entities—to formulate a new approach to the ethical, security, and philosophical considerations of controversial biological work. They sought not simply to act as watchdogs but to integrate the biosciences with their own discipline in a more fundamentally interdependent way, inventing a new, dynamic, and experimental anthropology that they could bring to bear on the center’s biological research. Designing Human Practices is a detailed account of this anthropological experiment and, ultimately, its rejection. It provides new insights into the

possibilities and limitations of collaboration, and diagnoses the micro-politics which effectively constrained the potential for mutual scientific flourishing. Synthesizing multiple disciplines, including biology, genetics, anthropology, and philosophy, alongside a thorough examination of funding entities such as the National Science Foundation, *Designing Human Practices* pushes the social study of science into new and provocative territory, utilizing a real-world experience as a springboard for timely reflections on how the human and life sciences can and should transform each other.

Blood-vessel Surgery and Its Applications

Children and Exercise XXV presents the latest research in the field of paediatric exercise sciences, focusing on the interaction between physical activity, exercise or sport on the one hand, and nutrition, metabolism regulation, cardio-respiratory function or muscle function on the other. Including contributions from leading international experts, the book is arranged into six thematic sections addressing: • metabolic syndrome and nutrition • hormonal and inflammatory regulations • cardio-respiratory function • children's performance • fitness assessment • physical activity. Offering a critical review of current topics and reports of contemporary research, this is a key text for all researchers, teachers, health professionals and students with an interest in paediatric sport and exercise science, sports medicine and physical education. The papers contained within this volume were first presented at the twenty-fifth Paediatric Work Physiology meeting, held in Le Touquet, France, in September 2009.

The Diabetes Textbook

"This work provides eleven stories of drug discovery and features the scientists who made them. The outcome of the discovery work has provided novel therapies in cancer, cardiovascular medicine, antibacterial and antiviral infectious diseases, parasitic diseases, metabolic diseases, and weight control. Each story begins with the basic biomedical science that revealed the pathway to effective drug therapy and continues with the step-by-step process that leads from insight to a product in clinical practice meeting a defined medical need. The tales feature creative problem solving by clever and dedicated scientists as they overcame roadblocks to success., hallelujah moments. Each drug discovery story reflects the interface between basic science, medicine, and drug discovery. Embedded in these tales are the societal and medical environments in which drug discovery takes place, the discovery of agents to treat HIV/AIDS, for example. Finally, a series of appendices provides basic chemical background for non-scientists"--

History of the Pancreas: Mysteries of a Hidden Organ

This book is a printed edition of the Special Issue "Vitamin D and Human Health" that was published in *Nutrients*

Textbook of Diabetes and Pregnancy

Type 1 diabetes (TD1) is one of the most common endocrine disorders in children and can occur at any age. Incidences of T1D have steadily increased worldwide, and it is largely considered an autoimmune disorder resulting from the specific destruction of pancreatic beta-cells producing insulin. However, T1D pathophysiology is still not completely understood, and although insulin and other therapies ameliorate the manifestations of the disease, no cure is

currently available. This book has been written by widely acknowledged experts, with each chapter providing unique information on emerging aspects of T1D. Because a large body of information has been available regarding T1D, this book highlights lesser explored topics linked to the subject using important and recent knowledge that presages directions for further research. Current possibilities to forestall diabetic complications are also explored.

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