Understanding Diabetes: A Biochemical Perspective

R. F. Dods
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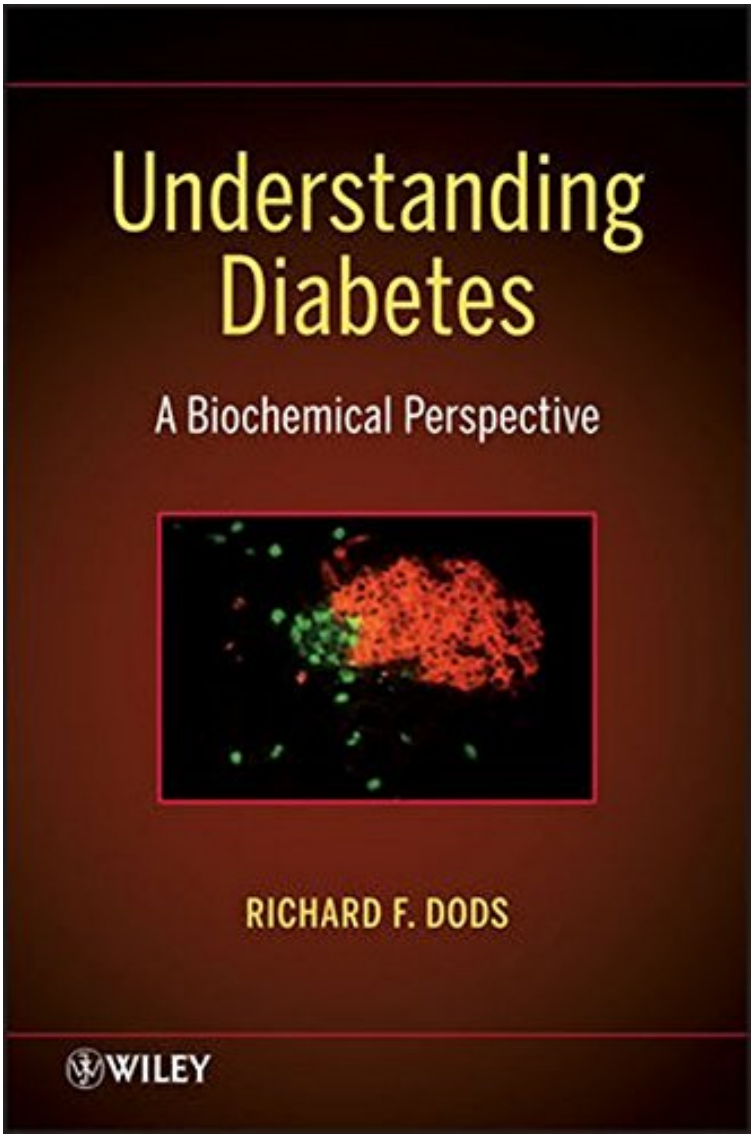

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R. F. Dods : Understanding Diabetes: A Biochemical Perspective before purchasing it in order to gage whether or not it would be worth my time, and all praised Understanding Diabetes: A Biochemical Perspective:

2 of 2 people found the following review helpful. Excellent resourceBy Leanna M. LevineI purchased this book to help me understand the biochemical basis for Diabetes and how potential new diagnostic tools might be developed. I appreciated the thorough and detailed descriptions provided for all the major biochemical pathways and the locations of the active pathways in various organs of the body. This helped put the disease, especially the reason obesity is often a precursor to type 2, into a much better perspective. I appreciated the author's manifest love for the subject matter and

his personal approach to telling the story. The summary boxes helped me to review and refresh before moving ahead to new chapters. It is a clearly written text to be referred to often. The ample literature references provide good jumping off points to read a particular topic in more depth.1 of 1 people found the following review helpful. Easy ReadBy MLPN1This is a fabulous book and a very easy read. I recommend this book to anyone interested in learning more about diabetes. I am currently a nursing student and have thus book to be very informative.

A clear explanation of the cause, diagnosis, and treatment of diabetes Written for a broad range of readers, including students, researchers, policymakers, health care providers, and diabetes patients and caregivers, this book explains the underlying biochemistry and physiology of diabetes mellitus. Each chapter contains a glossary that defines key terms, a summary that highlights essential concepts discussed in each section of the chapter, as well as a set of simple problems to help readers gain a richer and deeper understanding of diabetes, from its history to treatment options. Understanding Diabetes begins with an overview of the disease, its worldwide prevalence and cost, and its connection to the global obesity epidemic. The author then explores the history of diabetes, including the first documented description of the disease dating back to 3400 BCE in Ancient Egypt. The next chapter, A Glucose Metabolism Primer, sets forth the pathways for the metabolism of glucose. Next, the book covers: Regulation of glucose metabolism and glucose metabolism gone wrong Diabetes classification system Diagnosis, including current laboratory tests Complications, such as retinopathy, neuropathy, and cardiovascular disease Hereditary transmission Prevention and treatment, including emerging research Although a cure has still not been found, this book demonstrates that researchers are continuing to make major breakthroughs on all fronts in the fight against diabetes, including a better understanding of its causes and an improved ability to diagnose and treat the disease.

I think that it would be of most use to young diabetologists and chemical pathologists early in their training to ensure that they understand the foundations and principles of the condition they are seeing every day. (Diabetes Update, 1 October 2013) Without doubt, this is an interesting and unique book with major merits. It succeeds in closing a gap not filled by other books and in giving fresh insights into biochemistry. (ChemMedChem, 1 August 2013) From the Back CoverA clear explanation of the cause, diagnosis, and treatment of diabetes Written for a broad range of readers, including students, researchers, policymakers, health care providers, and diabetes patients and caregivers, this book explains the underlying biochemistry and physiology of diabetes mellitus. Each chapter contains a glossary that defines key terms, a summary that highlights essential concepts discussed in each section of the chapter, as well as a set of simple problems to help readers gain a richer and deeper understanding of diabetes, from its history to treatment options. Understanding Diabetes begins with an overview of the disease, its worldwide prevalence and cost, and its connection to the global obesity epidemic. The author then explores the history of diabetes, including the first documented description of the disease dating back to 3400 BCE in Ancient Egypt. The next chapter, A Glucose Metabolism Primer, sets forth the pathways for the metabolism of glucose. Next, the book covers: Regulation of glucose metabolism and glucose metabolism gone wrong Diabetes classification system Diagnosis, including current laboratory tests Complications, such as retinopathy, neuropathy, and cardiovascular disease Hereditary transmission Prevention and treatment, including emerging research Although a cure has still not been found, this book demonstrates that researchers are continuing to make major breakthroughs on all fronts in the fight against diabetes, including a better understanding of its causes and an improved ability to diagnose and treat the disease.About the AuthorRICHARD F. DODS, PhD, D.ABCC, has studied, taught, and written about diabetes mellitus for many years, beginning as a research associate at New York University Medical School. As Director of Clinical Chemistry at the Louis A. Weiss Memorial Hospital, Dr. Dods published pioneering papers on the use of HbA1c as a test for monitoring diabetes mellitus. Later, he established his own company, Clinical Laboratory Consultants, which advised hospital and commercial laboratories on the implementation and interpretation of assays and the use of instruments for the diagnosis and monitoring of disease, including diabetes.