

Contents

Editors.....	vii
Contributors.....	ix
Introduction.....	xiii
Chapter 1 Social Aspects of Dietary Sugars.....	1
<i>Amy K. McLennan, Stanley J. Ulijaszek, and Karin Eli</i>	
Chapter 2 Political Economies of Sugar: Views from a Former Sugarcane Industry	13
<i>Marisa Wilson and Vishala Parmasad</i>	
Chapter 3 Sugars in Beverages and Body Weight.....	27
<i>France Bellisle</i>	
Chapter 4 Sugars in Confectionery Products: Technical Functions and Links to Health Outcomes.....	43
<i>Laura Shumow</i>	
Chapter 5 Effects of Dietary Sugars from Natural Sources on Health Outcomes	59
<i>Eva Arrigoni, Christina Kast, and Barbara Walther</i>	
Chapter 6 High-Fructose Syrup—So, What Is It Exactly?.....	81
<i>John S. White</i>	
Chapter 7 Biological and Health Effects of Nonnutritive Sweeteners.....	99
<i>Allison C. Sylvetsky, Rebecca J. Brown, and Kristina I. Rother</i>	
Chapter 8 Nutrition Economics Related to Consumption of Dietary Sugars	115
<i>Adam Drewnowski</i>	
Chapter 9 Sugar Consumption in the Food and Beverage Supply across the Globe	127
<i>Barry M. Popkin</i>	
Chapter 10 Dietary Intake and Availability of Fructose and Sweeteners in the USA.....	139
<i>Bernadette P. Marriott</i>	

Chapter 11	Metabolism of Hexoses	157
	<i>Yeo Shi Hui, Lim Wen Bin, and Mary Chong Foong Fong</i>	
Chapter 12	Sugars and Metabolic Disorders in Animal Models Including Primates	169
	<i>Michael Pagliassotti, Kimberly Cox-York, and Tiffany Weir</i>	
Chapter 13	Contributions of Sugars to Metabolic Disorders in Human Models.....	179
	<i>Kim-Anne Lê and Luc Tappy</i>	
Chapter 14	Satiating Effects of Fructose and Glucose	195
	<i>Yada Treesukosol and Timothy H. Moran</i>	
Chapter 15	Sugars in the Brain.....	203
	<i>Jonathan Q. Purnell</i>	
Chapter 16	Sugars, Obesity, and Chronic Diseases in Adults	225
	<i>Vasanti S. Malik and Frank B. Hu</i>	
Chapter 17	Dietary Sugars, Obesity, and Chronic Diseases in Children	245
	<i>Jaimie N. Davis and Stacey Lee</i>	
Chapter 18	Impact of Dietary Sugars on Obesity and Metabolic Risk during Critical Periods of Growth and Development	257
	<i>Michael I. Goran</i>	
Chapter 19	Mechanisms by Which Dietary Sugars Influence Lipid Metabolism, Circulating Lipids and Lipoproteins, and Cardiovascular Risk.....	265
	<i>Kimber L. Stanhope and Peter J. Havel</i>	
Chapter 20	Sugars, Fructose, Hypertension, and Kidney Disease	281
	<i>Laura Gabriela Sánchez Lozada, Magdalena Madero, Sirirat Reungjui, and Richard J. Johnson</i>	
Chapter 21	Effect of Sugars on Markers of Cardiometabolic Disease: An Overview of Meta-Analyses	297
	<i>Viranda H. Jayalath, Vanessa Ha, Effie Vigouliouk, Vivian L. Choo, Adrian I. Cozma, Russell J. de Souza, and John L. Sievenpiper</i>	
Chapter 22	Mechanisms of Nonalcoholic Fatty Liver Disease Induced by Dietary Sugars: Methods of Investigation.....	315
	<i>Qiong Hu and Elizabeth J. Parks</i>	

Chapter 23	Dietary Sugars and Dental Health	327
	<i>Sára Karjalainen, Eva Söderling, and Adrian Lussi</i>	
Chapter 24	Dietary Sugars and Cancer Risk	341
	<i>Victoria J. Burley and Janet E. Cade</i>	
Chapter 25	Dietary Sugars and Physical Performance	355
	<i>Asker E. Jeukendrup</i>	
Chapter 26	Toward Evidence-Based Policies for Reduction of Dietary Sugars: Lessons from the Alcohol Experience	371
	<i>Laura A. Schmidt, Anisha I. Patel, Claire D. Brindis, and Robert H. Lustig</i>	
Index	391