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Nota di contenuto	<p>""BRAIN GLUCOSENSING: PHYSIOLOGICAL IMPLICATIONS""; ""BRAIN GLUCOSENSING: PHYSIOLOGICAL IMPLICATIONS""; ""Contents""; ""Preface""; ""Introduction""; ""Glucose Metabolism in the Brain""; ""Sites of Glucosensing in the Brain""; ""The Glucosensor Mechanism in the Brain""; ""4.1. Glucose-Excited Neurons""; ""4.1.1. Glucose Transport""; ""4.1.2. Glucose Phosphorylation""; ""4.1.3. Distal Sensing of Metabolic Signals""; ""4.2. Glucose-Inhibited Neurons""; ""Lactate as Metabolic Coupling between Astrocytes and Glucosensing Neurons""; ""Network of Hypothalamic Glucosensing Neurons""</p> <p>""6.1. Neurons of the Arcuatus Nucleus""""6.2. Neurons of the Ventromedial Nucleus""; ""6.3. Neurons of the Lateral Nucleus""; ""The Mechanisms Underlying Glucosensing During Hypoglycemia""; ""7.1. Systemic Mechanism Against Hypoglycemia""; ""7.2. Metabolic Central Counterregulation""; ""7.3. Sites of Detection of Hypoglycemia""; ""7.4. Counterregulation to Hypoglycemia in T1DM: Why Glucosensor Mechanisms Fail?""; ""7.5. Glucosensing Markers Involved in the Counterregulatory Response to Hypoglycemia""; ""Brain Glucosensing and the Regulation of Food Intake and Energy Expenditure""</p> <p>""8.1. Glucosensing Markers Involved in The Control of Food Intake and Energy Expenditure""""Glucosensing Neurons as Metabolic</p>

Sommario/riassunto

Glucose is an integral part of whole-body energy homeostasis and is tightly regulated by numerous endocrine, neuronal and behavioural systems, which ensure that glucose levels in the blood are maintained within a narrow physiological range. This book examines brain glucosensing and its effect on the body.
