1. **Record Nr.**   UNINA9910461512003321

   Autore   Polakof Sergio

   Titolo   Brain glucosensing [[electronic resource]] : physiological implications / / Sergio Polakof

   Pubbl/distr/stampa   Hauppauge, NY, : Nova Science Publishers, c2010

   ISBN   1-61761-701-6

   Descrizione fisica   1 online resource (79 p.)

   Collana   Neurology - laboratory and clinical research developments

   Disciplina   572/.565

   Soggetti   Glucose - Metabolism
                            Brain
                            Neurochemistry
                            Homeostasis
                            Blood glucose
                            Electronic books.

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Note generali   Description based upon print version of record.

   Nota di bibliografia   Includes bibliographical references and index.

   Nota di contenuto   ""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""
                            ""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""