Record Nr. UNINA9910861096303321 Autore Satoh Takumi Titolo Hybrid-Powered Brain: Neuron World Empowered by Ketone Bodies // by Takumi Satoh Cham:,: Springer Nature Switzerland:,: Imprint: Springer,, 2024 Pubbl/distr/stampa **ISBN** 3-031-54150-2 Edizione [1st ed. 2024.] Descrizione fisica 1 online resource (167 pages) Disciplina 612,015 Soggetti Clinical biochemistry Neurophysiology Neurons Neurochemistry Medical Biochemistry Cellular Neuroscience Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Chapter 1. Neuron World -- Chapter 2. Brain Energy Problem --Chapter 3. Energy Demand of the Human Baby Brain -- Chapter 4. Energy Demand of the Human Fetal Brain -- Chapter 5. Supply of Energy Substrate to the Brain -- Chapter 6. Commitment to Dementia-Free Society -- Chapter 7. Small Ketogenic Rescues the Brain --Chapter 8. Insulin and Ketone Bodies -- Chapter 9. Insulin Hypothesis -- Chapter 10. Brain and Human Longevity -- Chapter 11. Brain Energy System Against Neuronal Diseases. Sommario/riassunto This book unlocks the secrets of a powerful and sustainable brain, as well as explores the concept of a hybrid-powered brain and the transformative potential of the "Small Ketogenic" system. Supplying the brain with an ample energy substrate is vital for a positive mindset and a fulfilling day. Adequate energy fuels sharp thinking and clear judgement, while an energy-deficient brain leads to a variety of problems. Low blood glucose levels make it difficult to remember and amplify negative emotions. Delve into the brain's often-overlooked energy system to avoid these situations. The human brain functions on

two energy systems: glucose from carbohydrates and ketone bodies

from fats. These systems complement each other, and activating the hybrid system is surprisingly simple. Adopting the "Small Ketogenic" means extending the intervals between meals and allowing for a slight feeling of hunger within a reasonable range. This approach preserves cognitive function to the maximum. Inspired by the longevity of individuals in certain villages, the hybrid-powered brain enhances mental vitality. These villagers lead vibrant lives fuelled by their powerful minds. Maintaining ketone body concentrations between 0.2-0.5 mM ensures an active and calm brain. By making slight adjustments in eating habits, and adopting the "Small Ketogenic", we can achieve healthy longevity. This sustainable approach boosts the brain and promotes optimal health effects. Embark on a transformative journey of self-improvement and discover the true potential of your brain. This book revolutionises the way you perceive and care for your brain, leading you to a sustainable and fulfilling cognitive existence.