
Brain Glucosensing Physiological Implications Neurology

sugar for the brain: the role of glucose in physiological ... - sugar for the brain: the role of glucose in physiological and pathological brain function philipp mergenthaler¹, ute lindauer², gerald a. diene³, and andreas meisel¹ ¹ department of experimental neurology and neurology, center for stroke research, neurocure cluster **glucose transport in brain and retina: implications in the ...** - glucose transport in brain and retina: implications in the management and complications of diabetes arno k. kumagai* department of internal medicine, michigan diabetes research and training center, university of michigan medical school, ann arbor, mi, usa *correspondence to: department of internal medicine, 5570 msrb-2, university of michigan ... **review cellular oxygen sensing need in cns function ...** - brain oxygen supply review cellular oxygen sensing need in cns function: physiological and pathological implications till acker^{1,2,*} and helmut acker³ ¹karolinska institute, cellular and molecular biology, stockholm, sweden, ²eding institute, frankfurt, germany and ³max planck institute for molecular physiology, dortmund, germany **nitric oxide's role in glucose homeostasis - physiology** - through ampk and mtor in gi neurons also has implications for energy balance regulation. activity of mtor in the brain is related to energy availability. increased mtor signaling, by central administration of leucine or leptin, decreased food intake, and conversely, when energy stores were low following a fast, mtor signaling decreased (3). **abstracts corrected withheaders - physoc** - described here conform with the physiological society ethical requirements. **sa2 amp-activated protein kinase: part of the glucose-sensing machinery linked to k atp channels m. ashford pathology & neuroscience, university of dundee, dundee, uk amp-activated protein kinase (ampk) is an integral part of the original article metabolism-independent sugar sensing in ...** - brain slices by targeted expression of fluorescent proteins (17). furthermore, changes in their electrical activity have well-defined physiological and behavioral implications. through widespread projections to diverse brain areas expressing specific orexin receptors coupled to neuronal excitation, the firing of orexin neurons stimulates wake- **gut glucose metabolism in rainbow trout: implications in ...** - gut glucose metabolism in rainbow trout: implications in glucose homeostasis and glucosensing capacity sergio polakof,¹ rosa Álvarez,² and José I. Soengas¹ ¹laboratorios de fisiología animal and ²biología celular, departamento de biología funcional e ciencias da saúde, facultade de biología, universidade de vigo, vigo, spain **nih public access gerald a. diene , and andreas meisel ...** - metabolism in the brain underlies several diseases affecting both the brain itself as well as the entire organism. here, we provide a comprehensive overview of the functional implications and recent advances in understanding the fundamental role of glucose metabolism in physiological and pathological brain function. **regulation of gonadotropin-releasing hormone neurons by ...** - physiological pathways mediating their relationship have not been fully elucidated. as the central regulators of fertility, gonadotropin-releasing hormone (gnrh) neurons integrate numerous physiological signals, including metabolic cues. circulating glucose levels regulate gnrh release and might in part mediate the effects of **aging, - amazon simple storage service** - glucosensing properties [6], trigger vegfa expression in these cells, and vegf accumulation in the median eminence acts on endothelial vegfr2 to promote the fenestration of capillary loops that reach the arh [4]. in consequence, some target neurons in the ventro-medial arh are no longer insulated by the blood-brain **abstracts corrected withheaders - physoc** - ion channel expression. the implications of these findings for the control of feeding and cognitive arousal will be discussed. where applicable, the authors confirm that the experiments described here conform with the physiological society ethical requirements. **sa6 leptin and the biological basis of obesity j.m. friedman**

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