

Special Issue

Progress in Glucose Metabolism

Message from the Guest Editor

The concept of glucose metabolism (GM) is well established. Unrecognized didactics rule the established concept. This Special Issue focuses on whether cytosolic-generated NADH-H⁺ is actually NADH and is directly recovered to NAD⁺ in the mitochondria or whether more complicated metabolic steps must be considered. Many researchers have different, well-established concepts of GM in mind. In addition to recovery of ATP, glucose and glucose metabolites have been shown to directly trigger the release of interleukins, growth factors, insulin, or TNF α . GAPDH participates in the repair of DNA damage as well as in redox regulation of transcription factors. ATP-driven Ca²⁺/H⁺ antiporter and metabolic adenylyl cyclase link GM to Ca²⁺ and cAMP signaling pathways. The expression of constitutively active G protein-coupled receptors can permanently change GM. The aim of this Special Issue is to collect a wide range of topics relating to the field of GM. Reviews and experimental manuscripts are welcome. Contrary points of view are welcome and necessary.

Guest Editor

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The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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