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Progress in Glucose Metabolism

Guest Editor:

Message from the Guest Editor

Dr. Dirk Roosterman

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Deadline for manuscript submissions:

closed (15 February 2021)

Dear Colleagues,

The concept of glucose metabolism (GM) is well established. Unrecognized didactics rule the established concept. This Special Issue focuses on whether cytosolicgenerated 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 TNFa. 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.













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Editor-in-Chief

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Message from the Editor-in-Chief

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