Title:	A review on synthetic methods for 2-Deoxy-D-glucose
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Abstract:	2-Deoxy-D-glucose (2-DG) is a non-metabolizable glucose analog that has shown promising pharmacological activities and has been used to study the role of glucose in cancer cells. 2-DG is an inhibitor of glycolysis, potential Energy Restriction Mimetic agent and inhibits pathogen-associated molecular patterns. Its radioisotope derivatives have application as tracers. Recently, 2-DG has been used as an anti-COVID-19 drug lowering the need for supplemental oxygen. In this review, different synthetic strategies for preparation of 2- DG including enzymatic synthesis have been discussed. The understanding of these methods would help in developing therapeutics or diagnostic agents aimed at exploring therapeutic targets related with energy metabolism.
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