

Gluconeogenesis



[DEPTH OF BIOLOGY]

biosynthesis of new glucose

* Production of glucose from other metabolites



is necessary



for use as a fuel source.
by

→ brain

→ testes

→ erythrocytes

→ kidney medulla

* Glucose is the sole energy source for these organs.

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* But during starvation,

Brain cells derive energy from



Ketone bodies



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which are converted to
acetyl-CoA

