GLUCAGON SIGNALING PATHWAY

Insulin signaling pathway

cAMP signaling pathway

Calcium signaling pathway

FoxO signaling pathway

Glycogenolysis

Glycogen

G1P

Fatty acid biosynthesis

Lipogenesis

Malonyl-CoA

FFA

Acetyl-CoA

Citrate

Mitochondrion

Isocitrate

2-Oxoglutarate

Acyl-CoA

Citrate

Fatty acid oxidation

Succinate

Citrate cycle (TCA cycle)

Acetyl CoA

Fumarate

Glucose

Glucose

G6P

F6P

F1,6P

3-PGA

2-PGA

PEP

Pyruvate

Oxaloacetate

Malate

FBP1

PFKL

Oxidative phosphorylation

Glycolysis / glucogenesis

Gluconeogenesis

Lactate

Oxaloacetate

Malate

PFK/FBPase1

Promoted FBPase 1 activity

F2,6BP

F6P+P

cAMP

Ca²⁺

IP3

DNA

DNA

04922 8/13/15
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