

A EMU Basis Vectors

Glycolysis

Gluc₁₂₃

Gluc₄₅₆

Oxidative PPP

Gluc₂₃ × Gluc₂

Gluc₂₃ × Gluc₃

Pyruvate Cycling

Gluc₅₆ × Gluc₅

Gluc₅₆ × Gluc₂

Gluc₁₂ × Gluc₅

Gluc₁₂ × Gluc₂

Amino Acid Anaplerosis

uuu

Gluc₅ × uu

Gluc₂ × uu

Gln₂₃₄

Gln₃₄₅

B Coefficients

WT

PYC

35.0

30.3

48.7

32.0

4.6

0.6

4.6

0.6

0.0

0.9

0.1

0.9

0.0

0.9

0.1

0.9

0.4

3.5

0.0

1.0

0.0

1.0

0.4

1.4

0.4

1.4

Sum = 100%

C Sensitivities

dc/du_{ox} dc/du_{pc}

-16.9

-5.7

2.0

-6.0

6.7

-0.1

6.3

-0.1

0.2

0.6

0.2

0.6

-0.3

0.6

-0.4

0.5

0.6

1.0

0.3

0.8

0.2

0.7

0.2

0.5

0.2

0.5

Sum = 0