**A** 13C Tracer analysis in isolated mitochondria

- **U-[13C]pyruvate** → **Lactate**
  - Normalized ion amount: Control vs. Metformin
  - **Lactate**
    - m+3
    - m+0
  - *Significant difference*

- **Acetyl-CoA** → **Citrate**
  - Normalized ion amount: Control vs. Metformin
  - **Citrate**
    - m+2
    - m+0
  - *Significant difference*

- **Oxaloacetate** → **Fumarate** → **Malate** → **Succinate** → **Isocitrate** → **Alpha-ketoglutarate**

**B** Lactate

- Normalized ion amount: Control vs. Metformin

**C** Citrate

- Normalized ion amount: Control vs. Metformin

**D** Alpha-ketoglutarate

- Normalized ion amount: Control vs. Metformin

**E** Succinate

- Normalized ion amount: Control vs. Metformin

- *Significant difference*
- #Significant difference