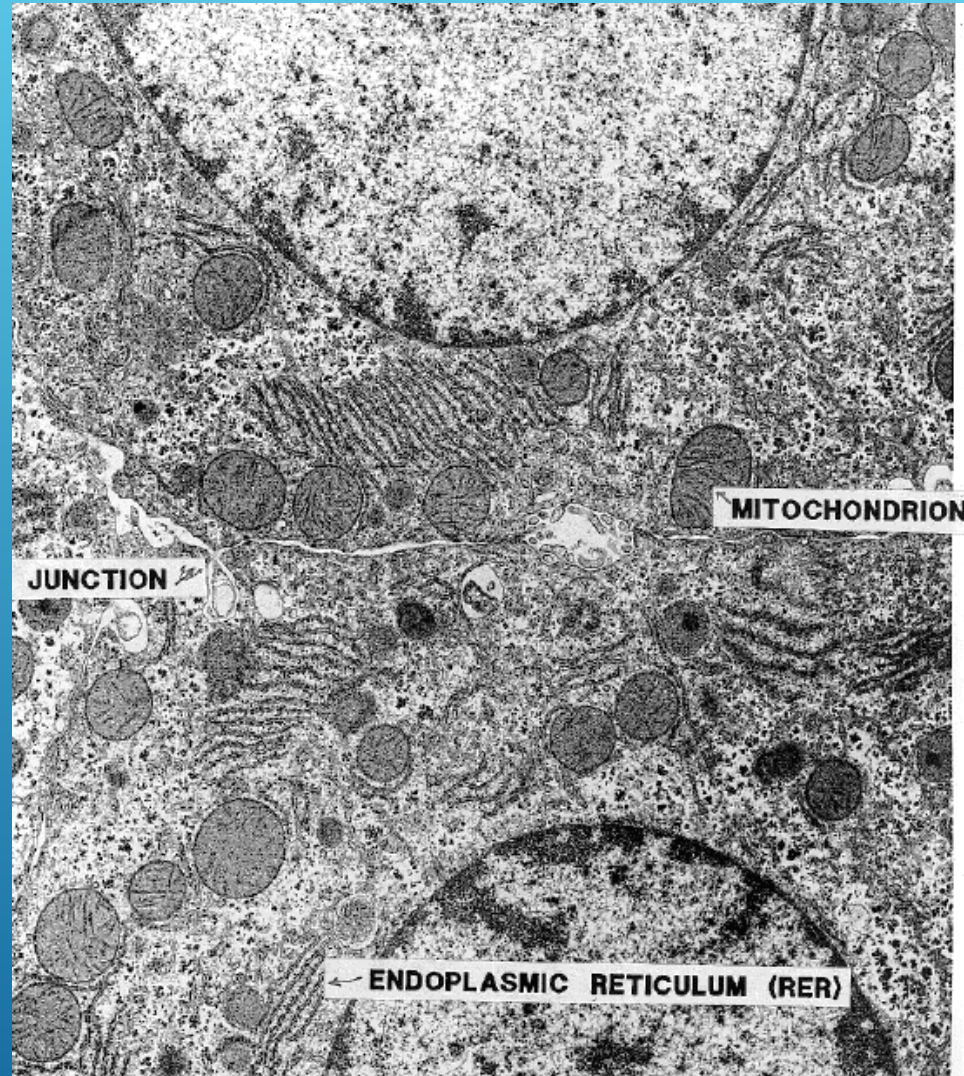




Mitochondria Structural Features

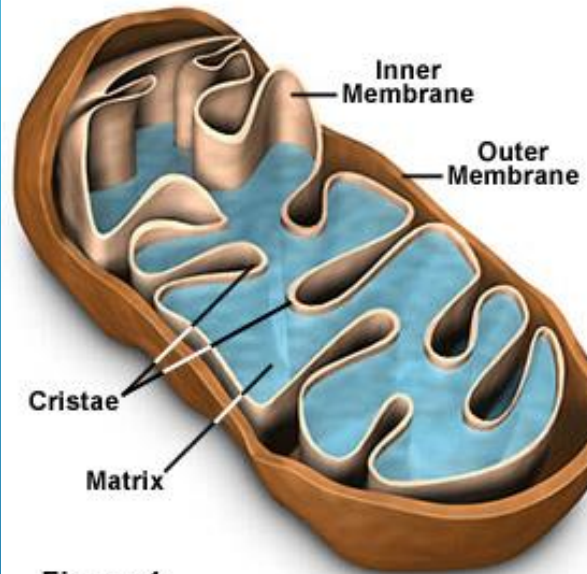
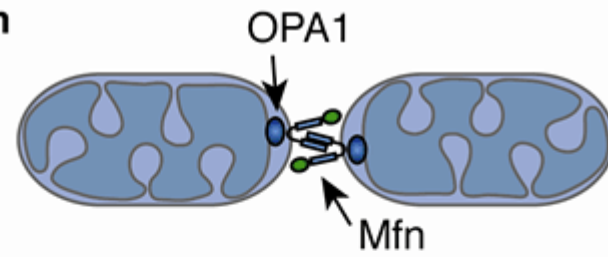
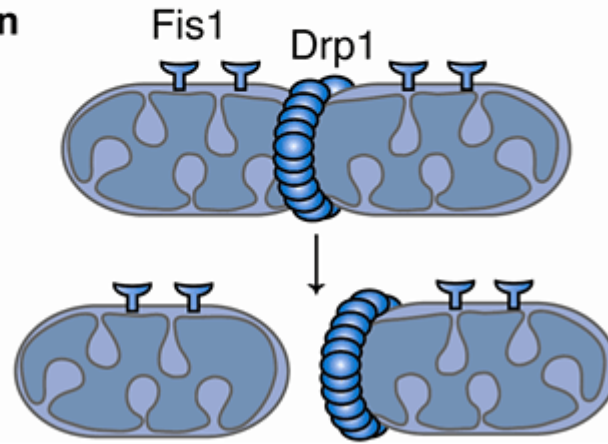


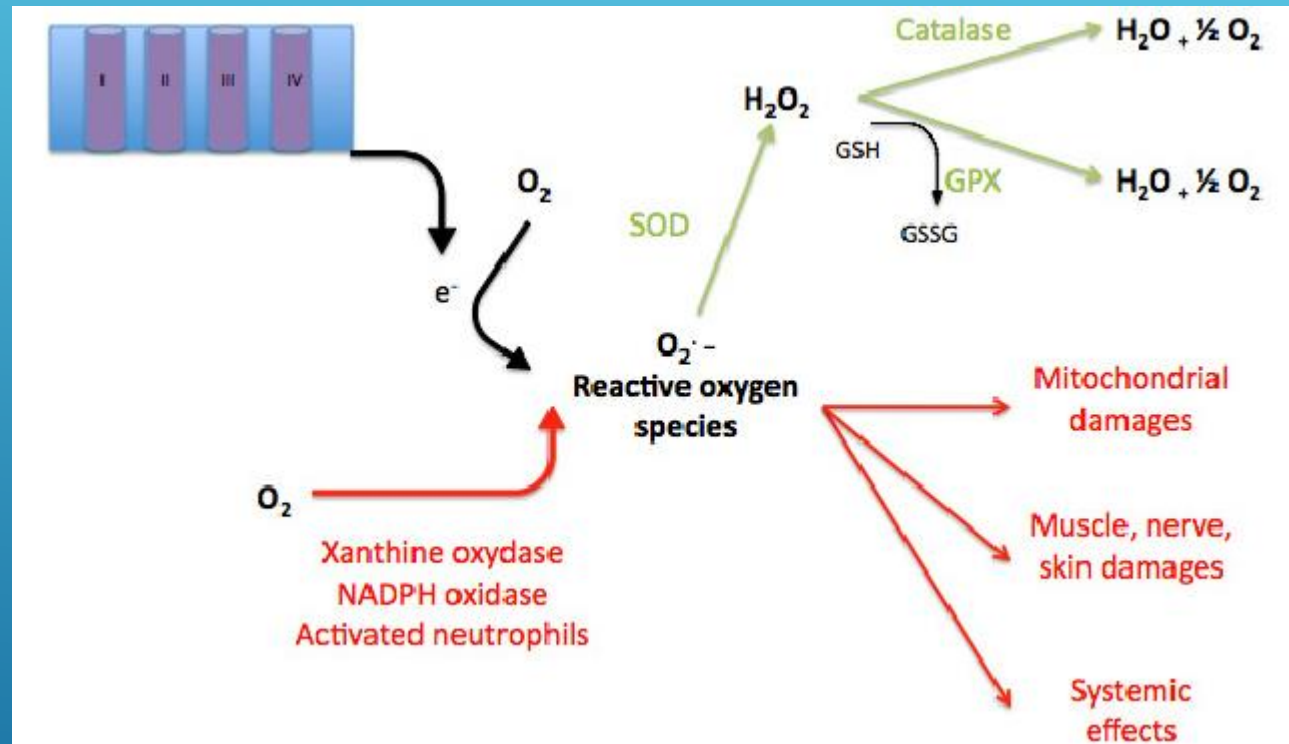
Figure 1

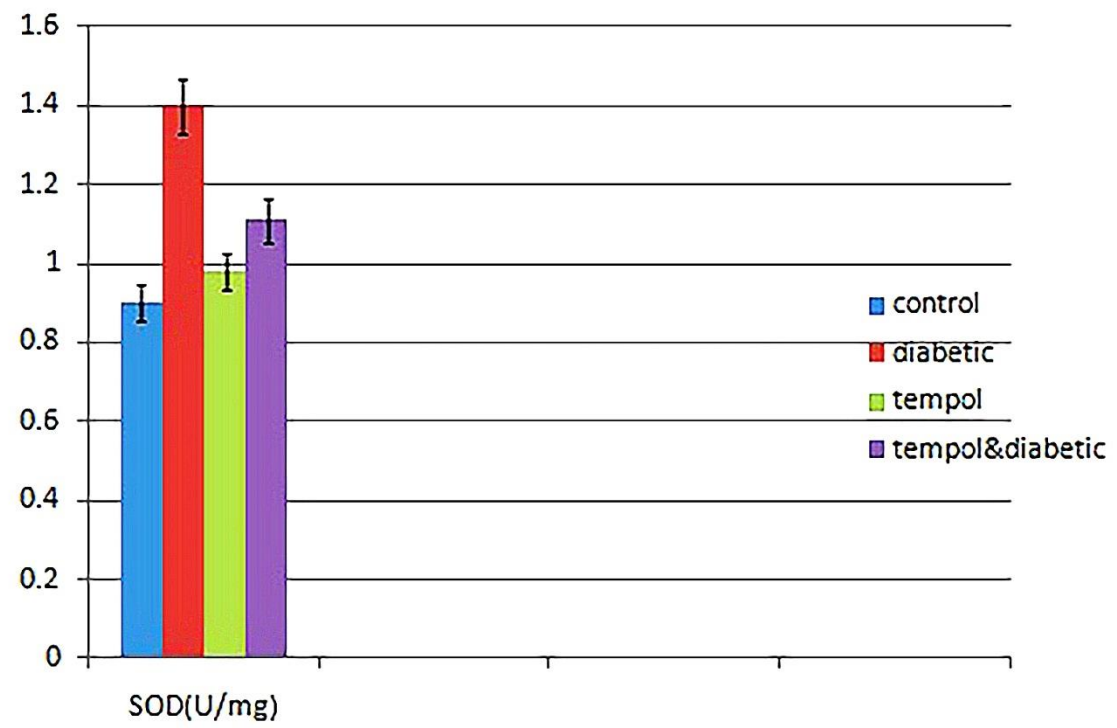
A. Fusion

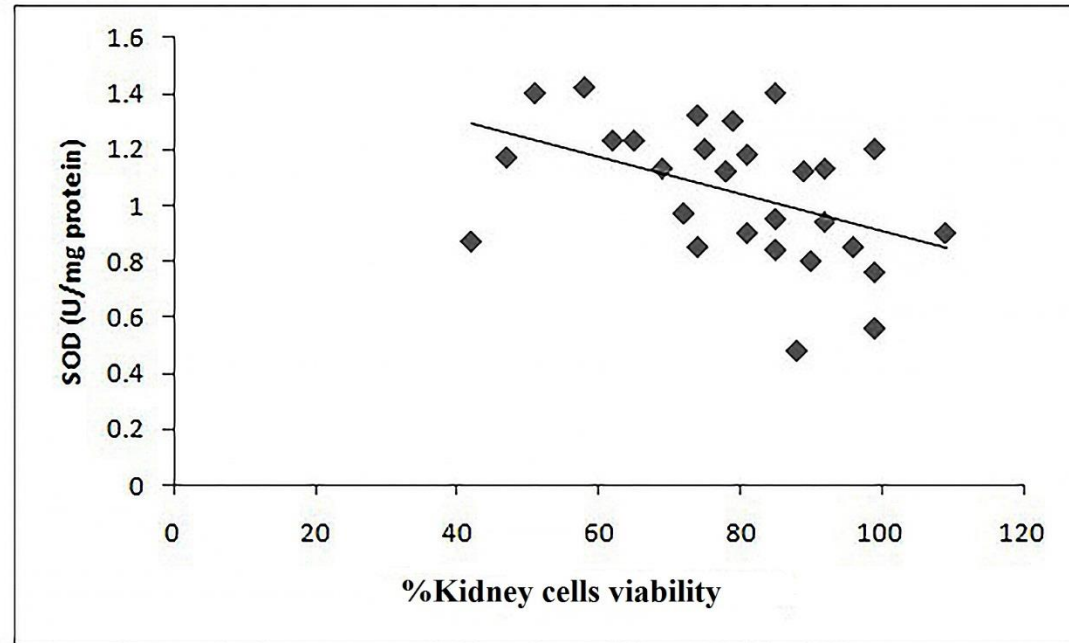


B. Fission

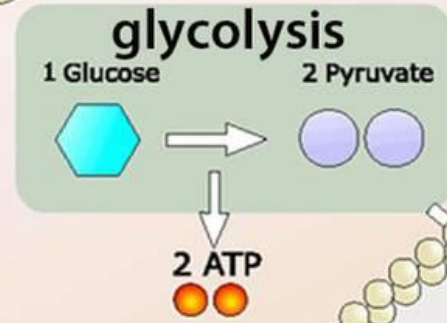








DEFINITION OF CELLULAR RESPIRATION



Acetyl CoA

Krebs cycle

2 ATP

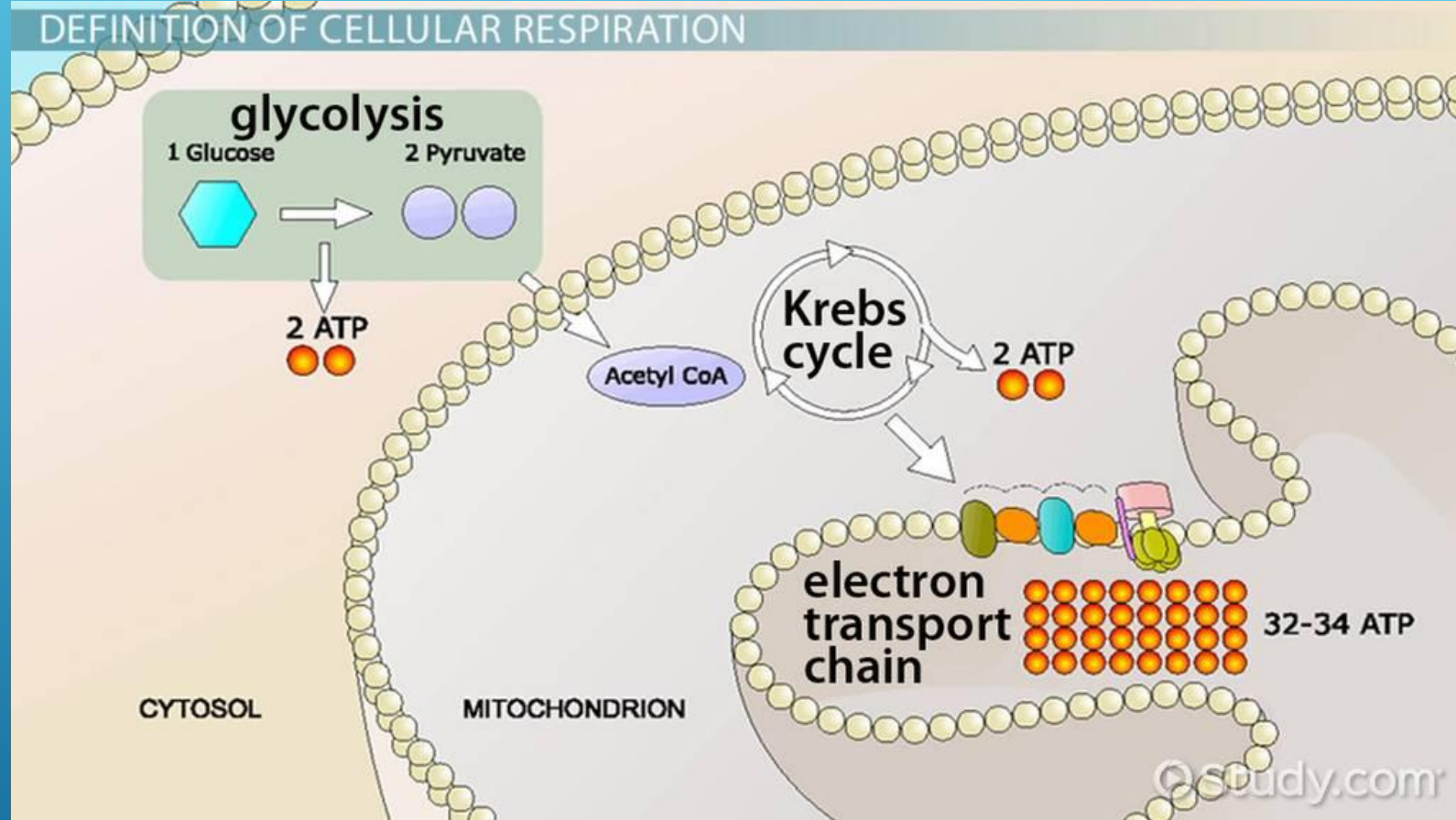
electron transport chain

32-34 ATP

CYTOSOL

MITOCHONDRION

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B

OCR/ECAR Ratio (pmoles O₂/mpH)

Neutrophils

0.47
(± 0.08)

Monocytes

1.24
(± 0.13)

Platelets

2.27
(± 0.15)

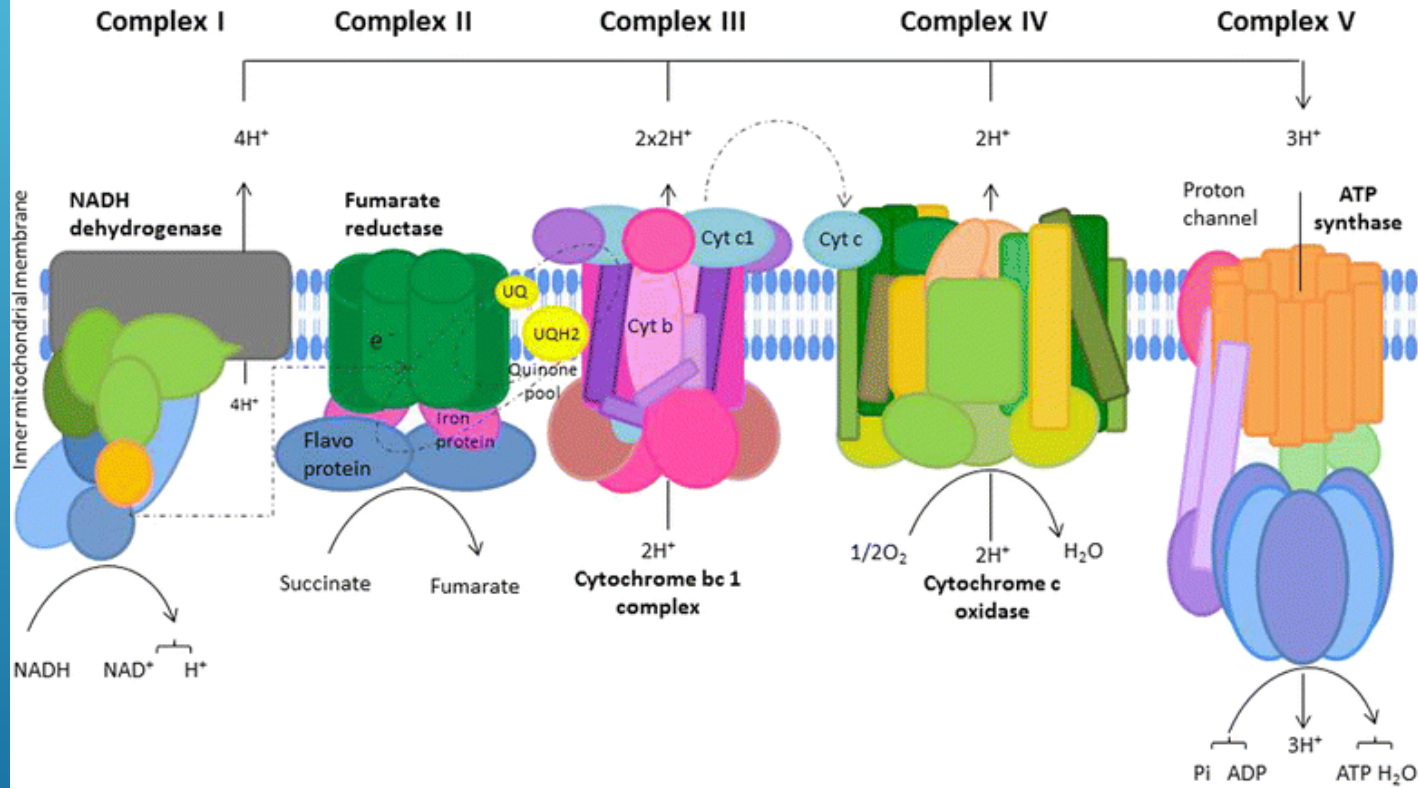
Lymphocytes

2.87
(± 0.22)

Glycolytic

Oxidative

Intermembranespace

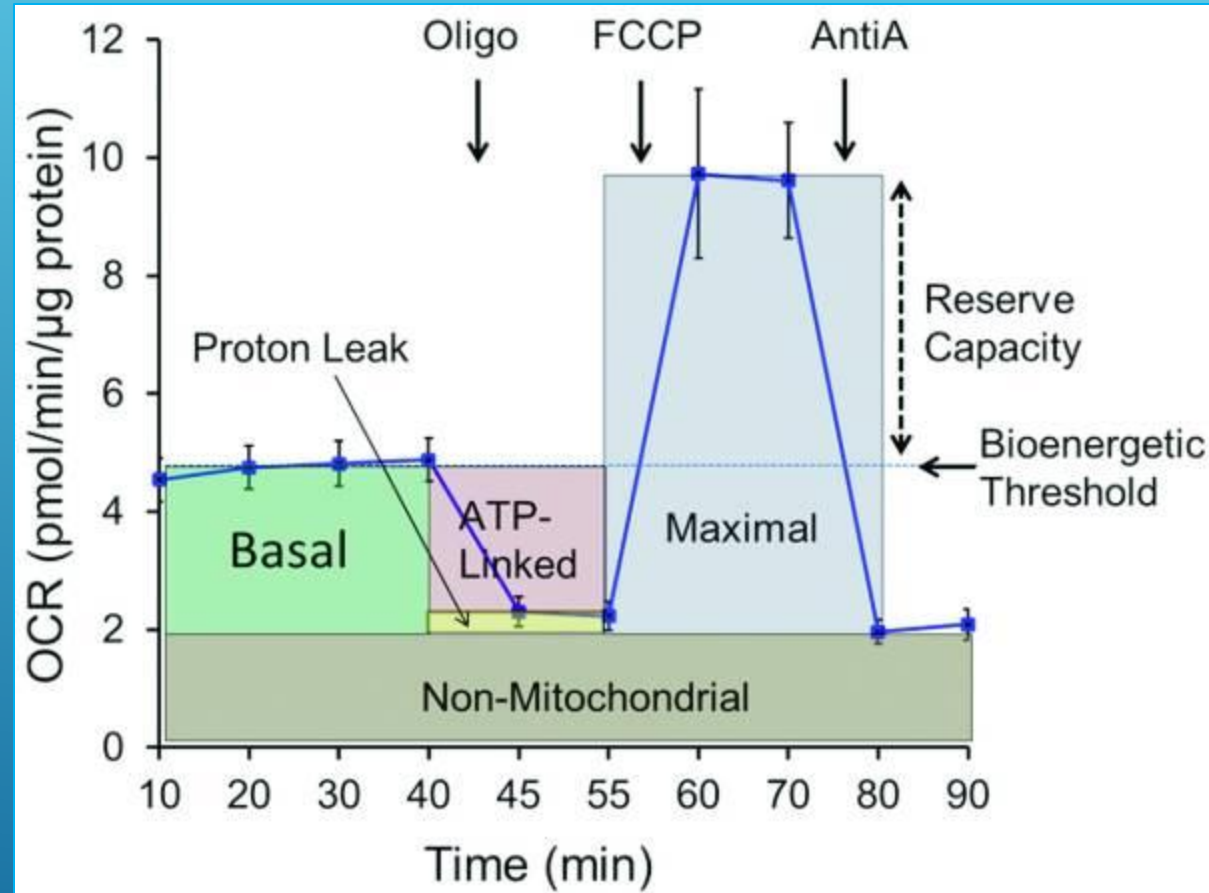


Mitochondrial matrix

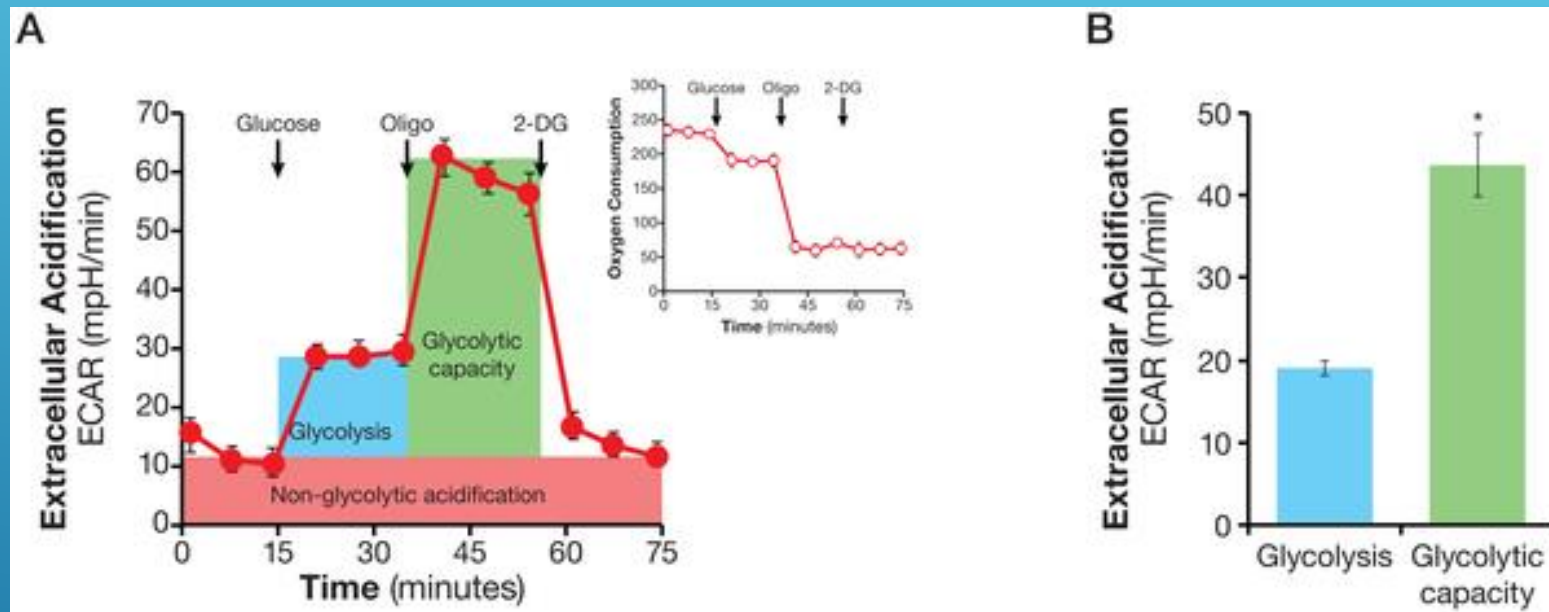
- ▶ **OCR : oxygen consumption rate**
 - ▶ **ECAR : extracellular acidification rate**
 - ▶ **BHI : bioenergetic health index**
- 
- A series of three parallel white diagonal lines in the bottom right corner of the slide, extending from the middle of the right edge towards the bottom left.



SEAHORSE XF ANALYSER

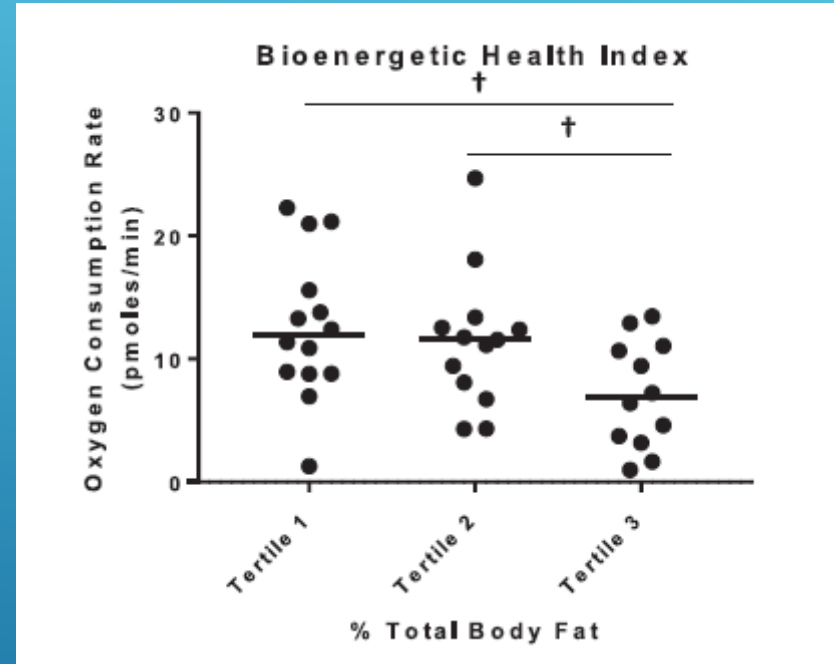


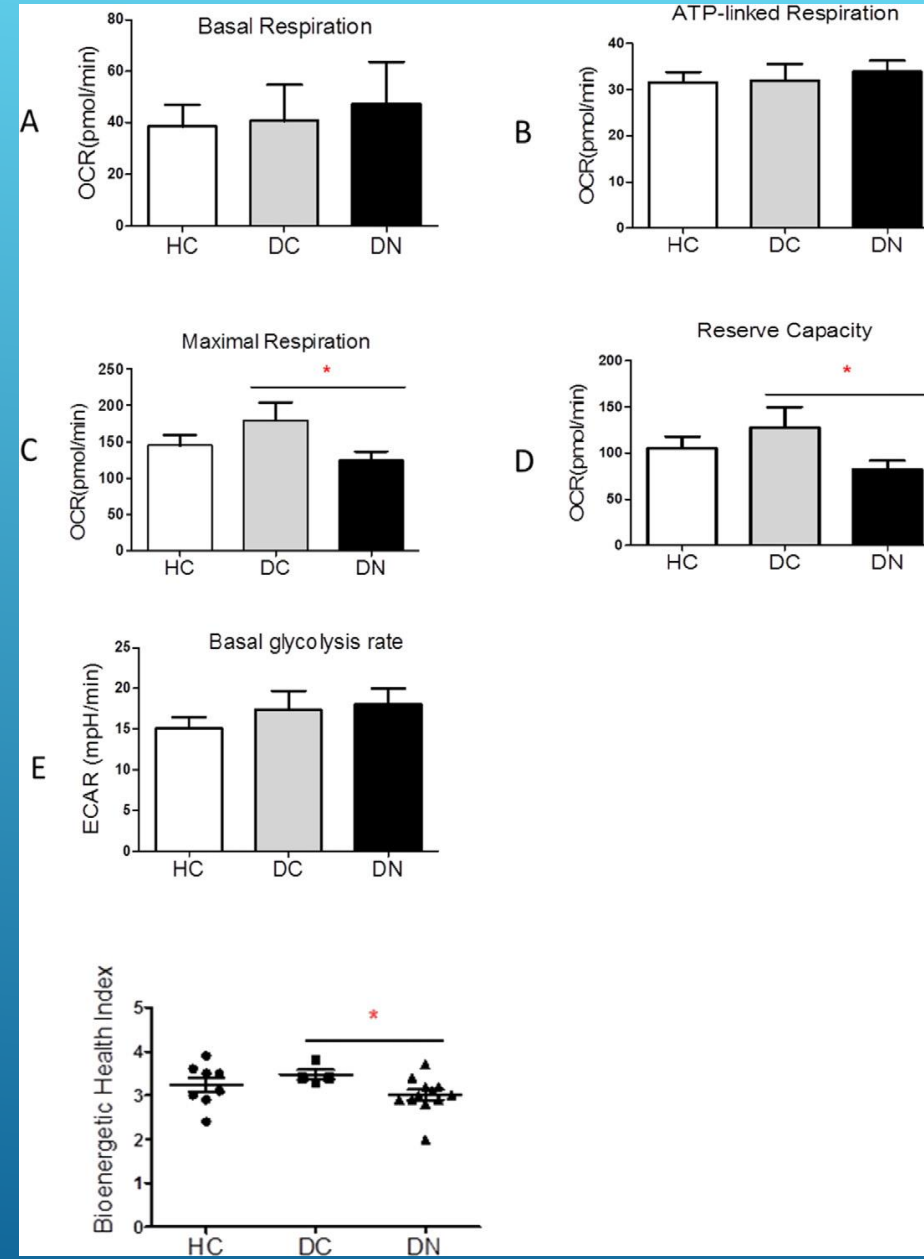
$$\text{BHI} = \log \frac{(\text{reserve capacity})^a \times (\text{ATP-linked})^b}{(\text{non-mitochondrial})^c \times (\text{proton leak})^d}$$

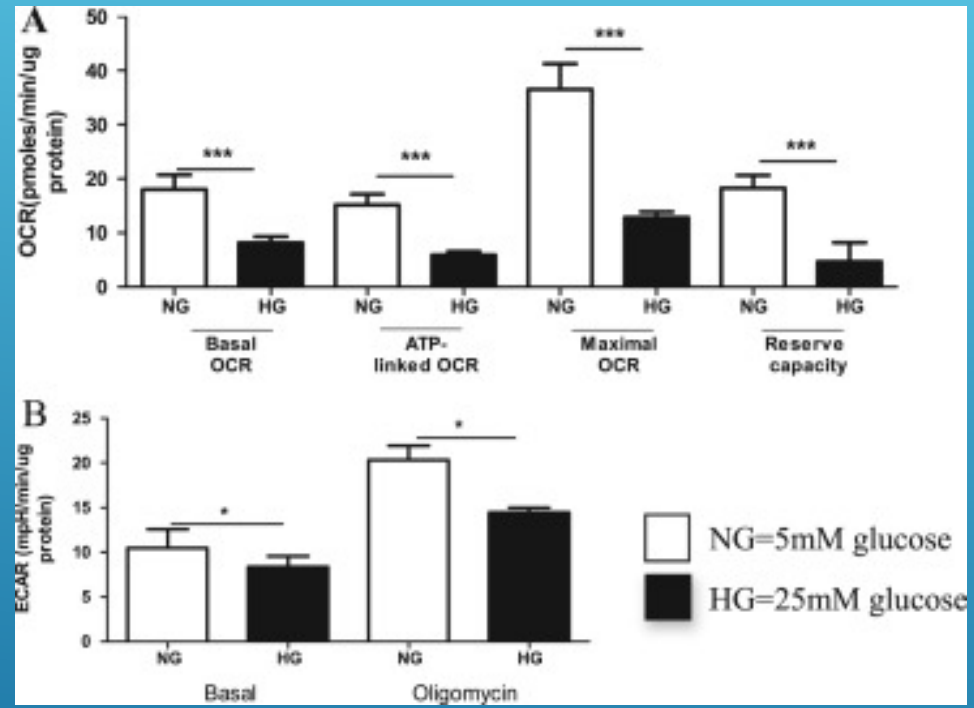


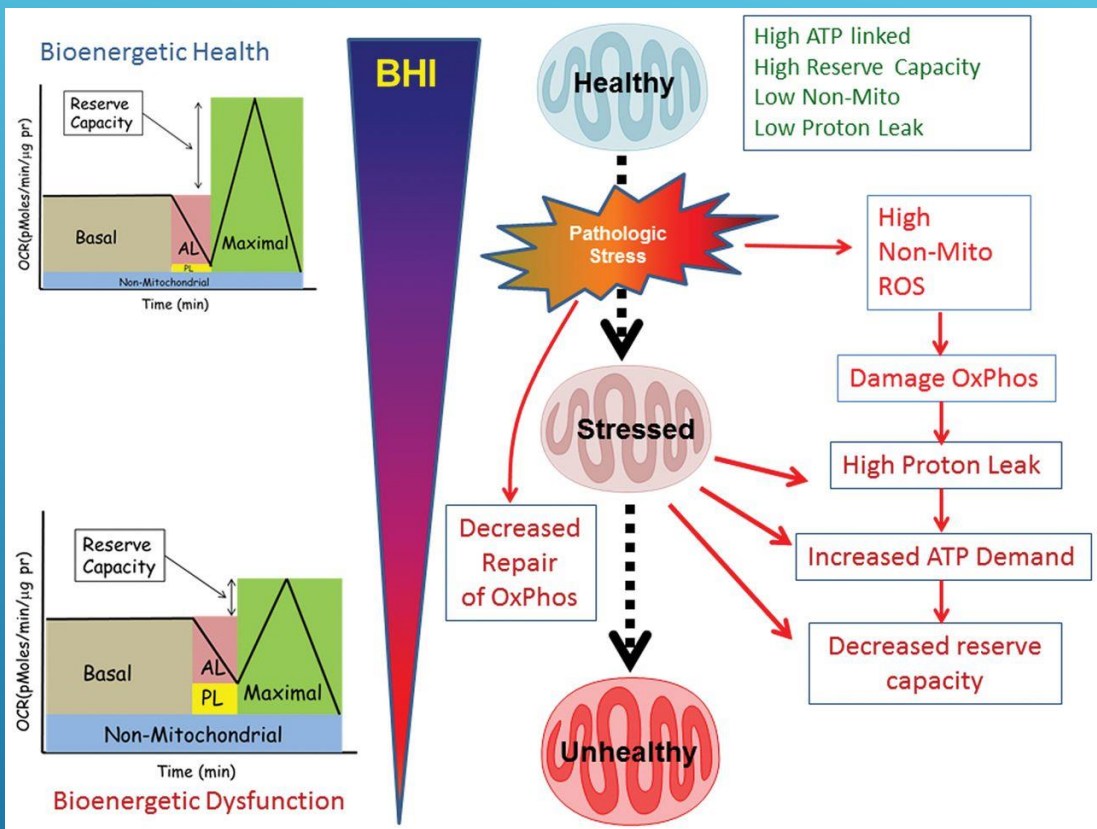
BMI and BHI

A series of several thin, white, parallel diagonal lines extending from the bottom right towards the top right of the slide.









THANK YOU

