



$$\Delta p_{\text{mt}} = \frac{electric}{\text{potential}} + \frac{chemical}{\text{potential}}$$

$$\Delta p_{\rm mt} = \Delta \Psi_{\rm mt} + \Delta \mu_{\rm H+} / F$$

$$\Delta \mu_{H+} = -\Delta pH \cdot 2.3 \cdot RT$$

$$\Delta p_{\rm mt} = \Delta \Psi_{\rm mt} - \Delta pH \cdot 2.3 RT/F$$



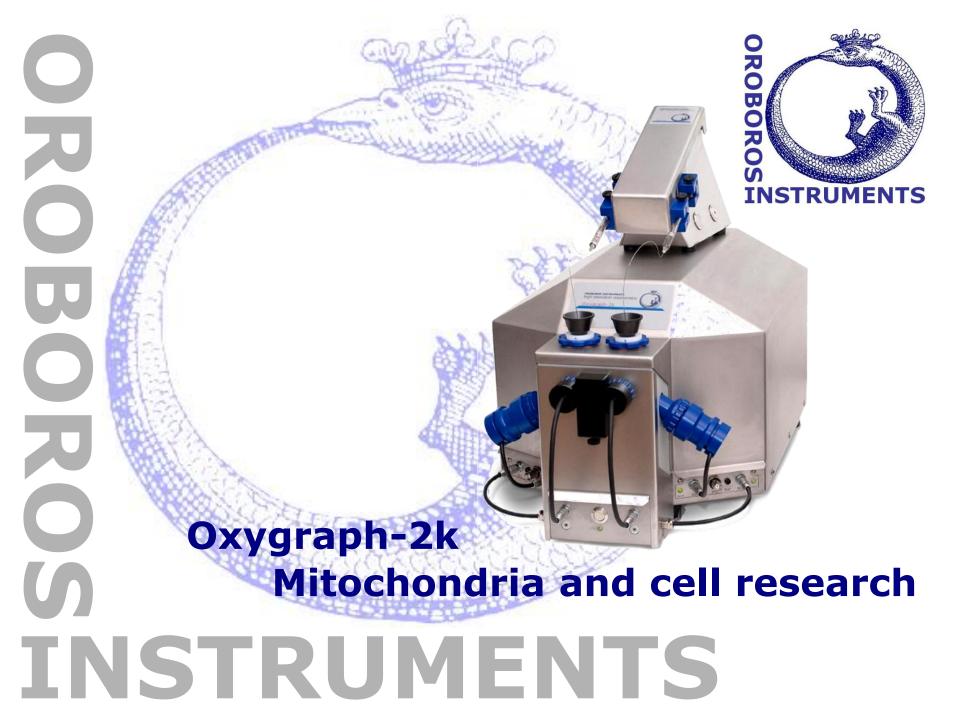
Peter Mitchell Nobel Prize 1978





MiPArt - Mitchell's dream





O2k-Workshop: OUR COMMON AIMS

- Mitochondrial physiology:
 Study mitochondrial function in the context of cell physiology and pathology
- Instrumental performance the O2k:
 - Learnhigh-resolution respirometry
 - Gain hands-on experience
 - Extend to O2k-Multi Sensor applications
- Excellence in research:
 - Instrumental quality control
 - Experimental design for innovation
 - Data analysis meeting superior standards



OROBOROS 02k



Quality versus quantity: high output

If you're using a biased instrument, it doesn't matter how many measurements you take – you're aiming at the wrong target.

Nate Silver (2012) The signal and the noise.

