



http://wiki.oroboros.at/index.php/O2k-Publications: RONS; Oxidative stress

High-Resolution FluoRespirometry and oxidative stress

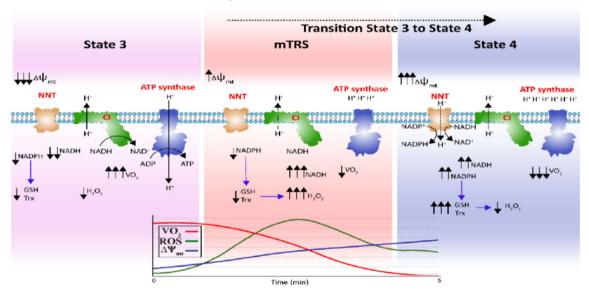
Biochim Biophys Acta 1858:955-965 (2017).

Mitochondiral transition ROS spike (mTRS) results from coordinated activities of complex I and nicotinamide nucleotide transhydrogenase

Mahmoud S. Sharaf, Don Stevens, Collins Kamunde

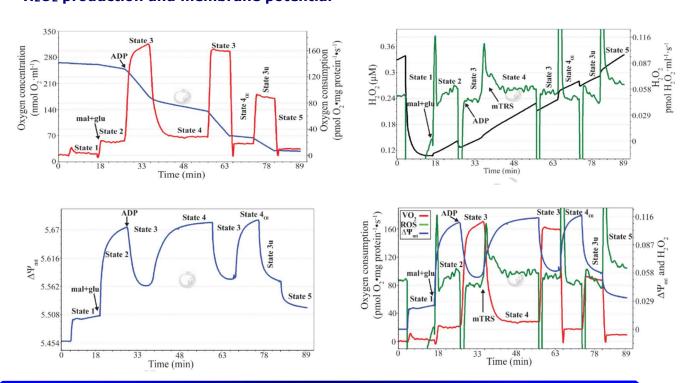


Proposed mTRS mechanism

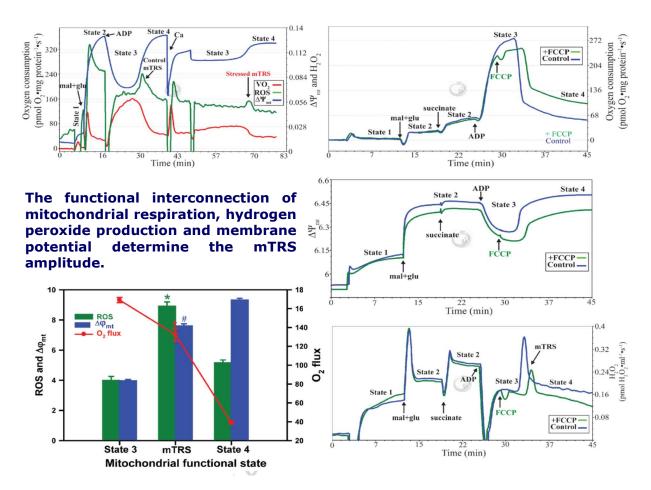


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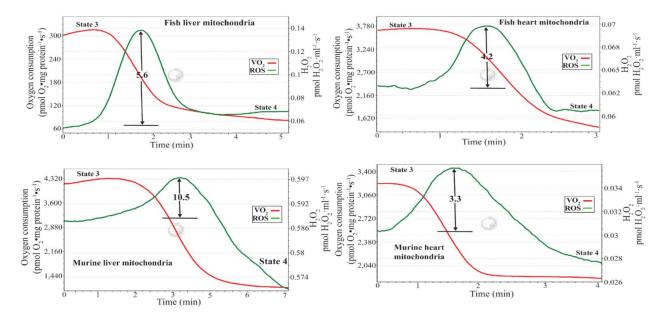
Simultaneous real-time high-resolution measurement of mitochondrial respiration, H_2O_2 production and membrane potential



Oroboros O2k



Comparative physiology between trout and mice reveals that the mTRS mechanism is conserved in mammals



Reference: Sharaf MS, Stevens D, Kamunde C (2017) Mitochondrial transition ROS spike (mTRS) results from coordinated activities of complex I and nicotinamide nucleotide transhydrogenase. Biochim Biophys Acta 1858:955-65.