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Coupling and pathway control of coenzyme Q redox state and respiration in isolated mitochondria

Authors: Timea Komlódi, Luiza HD Cardoso, Carolina Doerrier, Anthony L Moore, Peter R Rich, Erich Gnaiger

Manuscript submitted 2021-09-15, 2021-11-09 (revision)

Manuscript accepted 2021-11-09

[doi:10.26124/bec:2021-0003](https://doi.org/10.26124/bec:2021-0003)

Reviewer 2

Alicia J Kowaltowski

Department of Biochemistry, Institute of Chemistry, University of Sao Paulo, Sao Paulo, Brazil

Manuscript reviewed 2021-10-13

[doi:10.26124/bec:2021-0003.r2](https://doi.org/10.26124/bec:2021-0003.r2)

Reviewer 2

This is a very well conducted study adapting a Q redox state sensor to a classical O₂ electrode system to study the Q redox pool in real-time isolated mitochondrial experiments. The setup and experimental conditions are presented in detail and very clearly, and the results are exceptionally good in terms of response and signal to noise. The results are discussed very realistically in a straight-forward manner. I predict this will be very useful for the bioenergetics community.

The only correction I think is needed for publication is to remove the Oroboros company watermark from the background of figures. This "branding" is appropriate for company pamphlets, but not for a scientific publication, where it distracts from the data presented.

Authors

Many journals have published figures generated by DatLab with the Oroboros watermark, such as <https://www.pnas.org/content/pnas/106/47/20057.full.pdf> (Figure 1). However, we removed the watermark from the figures in the present manuscript.