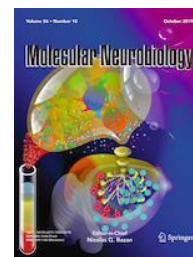


Peripheral Mitochondrial Dysfunction in Alzheimer's Disease: Focus on Lymphocytes

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Mitochondrial respiration in lymphocytes from Alzheimer disease (AD) patients and controls

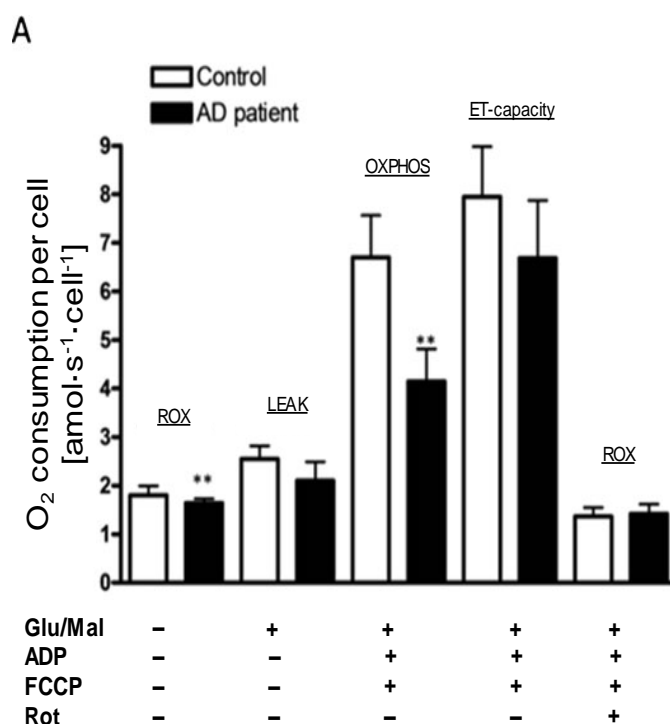


Figure 1. O₂ flux and O₂ consumption were measured after addition of different agents: glutamate/malate (glu/mal), ADP, FCCP and rotenone (Rot). Two-way ANOVA revealed a significant decrease of the total cellular respiration in AD cells compared with that of control cells.

The mitochondrial disfunction found in lymphocytes of patients with Alzheimer's disease and mild cognitive impairment points to the relevance of this as an early peripheral marker for detection.

Reference: Leuner K, Schulz K, Schütt T, Pantel J, Prvulovic D, Rhein V, Savaskan E, Czech C, Eckert A, Müller WE (2012) Peripheral mitochondrial dysfunction in Alzheimer's disease: focus on lymphocytes. Mol Neurobiol 46:194-204.

Text slightly modified based on the recommendations of the COST Action MitoEAGLE CA15203. [Doi:10.26124/mitofit:190001.v6](https://doi.org/10.26124/mitofit:190001.v6)

O2k-brief communicated by LF Garcia-Souza and L Tindle-Solomon
Oroboros Instruments



Supported by project NextGen-O2k which has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 859770

