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The conserved regulation of mitochondrial uncoupling proteins: from unicellular eukaryotes to mammals

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Key words: mitochondria; uncoupling proteins; free fatty acids; aldehydes; purine nucleotides; coenzyme Q

Abbreviations: AcUCP, *Acanthamoeba castellanii* UCP; ANT, adenine nucleotide translocase; BAT, brown adipose tissue; CATR, carboxyatractyloside; FFA, free fatty acid; HNE, 4-hydroxy-2-nonenal; MACP family, mitochondrial anion carrier protein family; $m\Delta\Psi$, mitochondrial membrane potential; mNDPK, mitochondrial nucleotide diphosphate kinase; OXPHOS, oxidative phosphorylation; PN, purine nucleotide; ROS, reactive oxygen species; RA, all *trans*-retinoic acid; RAL, all *trans*-retinal; StUCP, *Solanum tuberosum* UCP; Q, coenzyme Q; Q_{ox}, oxidized Q; Q_{red}, reduced Q

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