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of energy metabolism, including fatty acid oxidation in normal muscle cells, is the energy demand or the workload, which controls the mitochondrial oxidative phosphorylation processes by a mechanism of metabolic feedback regulation. For this, multiple metabolic intermediates are involved in setting the steady state

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Chemically, ATP molecules have an adenosine triphosphate group, and high energy chemical bonds. ATP hydrolysis causes the terminal phosphate bond to break and release energy. This leaves ADP, inorganic phosphate, and one hydrogen ion. ADP hydrolysis breaks the remaining terminal phosphate bond and releases energy, leaving AMP, H<sup>+</sup> and P.

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