

Starvation effect on rat kidney peroxisomal and microsomal fatty acid oxidation.

A comparative study between liver and kidney

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Microsomal lauric acid 12-hydroxy lauric acid (ω)-hydroxylation and fatty acid peroxisomal ω -oxidation were studied in kidney tissue from starved rats. Starvation increased the microsomal ω -hydroxylation and peroxisomal ω -oxidation of fatty acids with a high correlation between both processes. Earlier, we reported similar results in liver. Our results support the hypothesis that the role of microsomal fatty acids ω -hydroxylation is the generation of substrate for peroxisomal ω -oxidation, with the final purpose of contributing to a catabolic or gluconeogenic pathway from fatty acids. © 1993.