

# Microsomal and peroxisomal fatty acid oxidation in streptozotocin diabetic rat liver

Orellana, Myriam

Valdés, Elena

Del Villar, Eugenia

Microsomal lauric acid hydroxylation and fatty acid peroxisomal  $\beta$ -oxidation were studied in hepatic subcellular preparations from streptozotocin-induced diabetic and diabetic insulin-treated rats. The liver microsomes of the streptozotocin diabetic rats displayed a similar activity to hydroxylate lauric acid as the control microsomes. Diabetic insulin-treated rats showed lower ( $\beta$ 1) and  $\beta$ -lauric acid hydroxylase activities than diabetic and control rats. Streptozotocin-induced diabetes and diabetic insulin-treated rats exhibited no significant changes on peroxisomal palmitoyl CoA  $\beta$ -oxidation compared to the control rats. Both microsomal and peroxisomal fatty acid oxidation responded in a similar way in this model of experimental diabetes.