



## Effect of the Chronic Treatment with Aqueous Extract of *Caesalpinia ferrea* and *Chrysobalanus icaco* on the Vascular Reactivity of Diabetic Rats

Adriana A. CARVALHO, Igor A. C. MENEZES, Angelo R. ANTONIOLLI & Márcio R.V. SANTOS \*

*Departamento de Fisiologia, Universidade Federal de Sergipe,  
Av. Marechal Rondon, S/N, Rosa Elze, 49100-000 - São Cristóvão - SE, Brasil*

**SUMMARY.** *Caesalpinia ferrea* and *Chrysobalanus icaco* are plants commonly used by the folk medicine for the treatment of diabetes mellitus. In this work, the effects of the chronic treatment with aqueous extracts of *C. ferrea* (AECF) and *C. icaco* (AECI) on the vascular reactivity of alloxan-induced diabetic rats were evaluated. In rings of mesenteric artery, AECF and AECI were not able to modify the contractions induced by phenylephrine or relaxations induced by carbachol. However, treatment with AECI was able to prevent the potentiation of the relaxations induced by sodium nitroprusside in diabetic rats. In brief, this study found possible benefits of the treatment with *C. icaco* on the reactivity vascular of diabetic rats.

**KEY WORDS:** *Chrysobalanus icaco*, *Caesalpinia ferrea*, Diabetes, Mesenteric artery, Rat.

\* Author to whom correspondence should be addressed. E-mail: marcio@infonet.com.br