

THE EFFECTS OF EXPERIMENTAL DIABETES MELLITUS ON THE ADRENERGIC FUNCTIONS OF THE RAT UTERUS

Abstract

The effects of experimental diabetes mellitus on the uterus of the rat during pregnancy were investigated using isolated organ experiments as well as superfusion and RT-PCR experiments.

The presynaptic side of neurotransmission was investigated with superfusion studies, the postsynaptic side of neurotransmission was investigated with isolated organ studies, using alpha-, beta- and oxytocin receptor agonists and electric field stimuli.

The present set of experiments demonstrated that diabetes increases the speed of the changes in the myometrial functions that normally occur during pregnancy considering both the adrenergic- and the oxytocin system.