

THE INVOLVEMENT OF THE REACTIVE NITROGEN SPECIES IN MUSCLE ACTIVITY

Abstract

Several studies have recently revealed the presence of reactive nitrogen species at muscle level and their role in the regulation of muscle activity. Also, their production is connected to that of reactive oxygen species.

The reactive nitrogen species generate nitrosative stress. They exert multiple, direct and indirect effects on the properties of the muscles (contractility, excitability, metabolism) and on the calcium homeostasis.

Keywords: reactive nitrogen species, nitrosative stress, physical exercise, skeletal muscles.