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Basic Study

PTEN induced kinase 1-induced dynamin-related protein 1 Ser637 phosphorylation reduces mitochondrial fission and protects against intestinal intestinal ischemia reperfusion injury

Qasim W *et al.* PINK1/DRP1 pathway in intestinal I/R injury

Wasim Qasim, Yang Li, Rui-Min Sun, Dong-Cheng Feng, Zhan-Yu Wang, De-Shun Liu, Ji-Hong Yao, Xiao-Feng Tian

Abstract

BACKGROUND

Intestinal ischemia reperfusion (I/R) occurs in various diseases, such as trauma and intestinal transplantation. Excessive reactive oxygen species (ROS) accumulation and subsequent apoptotic cell death in intestinal epithelia are critical causes of I/R injury. PTEN-induced putative kinase 1 (PINK1) and

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