

Poster Sessions

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Modeling experimental atherosclerosis in rabbits for investigation of antioxidant proteins expression

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Ischemic heart disease (IHD) is the main cause of human mortality, lifetime and its quality worldwide. In most cases, anatomical "ground" of its development are fatty deposits in the coronary arteries walls (atherosclerosis), appearing during pathophysiological unbalance of lipid and carbohydrates metabolism. It is well established that oxidative stress and reactive oxygen species (ROS) play an important role in coronary atherosclerosis initiation and subsequent development with inflammation system involvement. Naturally occurring defense antioxidant system was noticed to protect against ROS aggressive and disruptive capabilities. However, involvement of many antioxidant proteins remains contradictory and uncompleted in coronary atherosclerotic processes.

In understanding of the basic processes of atherosclerotic pathogenesis, model objects as rabbits are the most suitable system, as biochemical parameters of lipid-carbohydrate metabolism