

Obesity and brain - Is obesity an inflammatory disease of the central nervous system?

Emilia Kantorova

Comenius University, Slovakia

Abstract

The central nervous system, dominantly hypothalamus, plays important role in controlling energy homeostasis of the organism. Recent studies reported inflammatory links between obesity and many other disorders. Hypothalamic inflammatory pathways activation is suspected to be initial impuls to trigger metabolic dysfunction of an organism. How inflammatory signals in some cases generate negative energy balance, while in other cases generate positive energy balance and weight gain is not fully known. Is it high-fat diet and lipid infusions whose are responsible for activation of hypothalamic inflammation, or there is a primary failure of innate immunity resulting in hypothalamic inflammatory processes? Adipokines levels reflect intensity of brain inflammatory processes. In our presentation we will offer new insights into this problem.

Biography

Emilia Kantorova MD, PhD is the assistant professor of Neurology clinic, Jessenius Faculty of Medicine, Comenius University in Martin, Slovakia. She has published more than 25 papers in reputed journals.