



Effects of Fatty Acids on Cancer, Obesity, and Atherosclerosis

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Message from the Guest Editor

Dear Colleagues,

Structural differences in Fatty acid (FA) length lead to differences in absorption, transport, and tissue destination. FAs are potent stimuli of intestinal hormones and other factors that regulate lipid and glucose metabolism, energy homeostasis, insulin response, and chronic inflammation. Intake of specific FAs (i.e., monounsaturated FA; omega-3 polyunsaturated FA) elevates energy expenditure to counteract energy surplus and obesity in animals and humans. The partial replacement of specific FAs has been reported to attenuate pro-inflammatory effects to improve metabolic disorders and cancer. Another important research area is the development of models to identify their mechanisms of actions on cancer, obesity, and atherosclerosis. Both in vivo and in vitro models are necessary for better understanding the roles of specific fatty acids and intestinal hormones in elevation of energy expenditure and insulin action, and downregulation of hypertriglyceridemia and chronic inflammation.

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