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The functions of sarcopenia related myokines

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Abstract

Skeletal muscle is not only responsible for locomotion, but also a major metabolism and endocrine organ. Skeletal muscle produces several secreted factors to regulate the microenvironment of both muscle and the whole body. The changing profile of myokines functions in the process of sarcopenia, the progressive loss of muscle mass and strength upon aging. Here we briefly review the current studies on the secreted factors produced by skeletal muscle and their functions in the process of sarcopenia.

Key words

Secreted factors, sarcopenia, cytokines, hormones, Dkk3

Skeletal muscle accounts for 30-50% of body mass. It is responsible for locomotion, breathing, and energy metabolism. Loss of skeletal muscle mass leads to reduced immune system activity, impaired metabolism, disability, injuries, frailty, and mortality (Visser, 2011; Visser and Schaap, 2011). How to maintain a healthy amount of skeletal

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