



Lifestyle-Induced and Aging-Induced Changes in Body Composition and Physical Fitness: Focus on Healthy Longevity

Guest Editor:

Prof. Dr. Pasqualina Buono

Department of Exercise and
Wellness Sciences, Parthenope
University of Naples, 80133
Naples, Italy

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Message from the Guest Editor

Aging is characterized by a progressive, physiological decline of several biological functions. Modifications in body composition (an increased percentage of abdominal fat and reduction in fat-free mass); sarcopenia, associated with an increase in circulating pro-inflammatory cytokines and the impairment of mitochondrial function; and the reduction of oxidative capacity contribute to the onset of dysmetabolic diseases in aging. Furthermore, the 5–10% VO₂ max reduction per decade, responsible for an increased risk for cardiovascular diseases (CVDs), along with the reduced force-generating capacity of skeletal muscle and an increase in protein damage, due to a compromised autophagic response, are additional hallmarks of aging. Risk factors, such as a sedentary lifestyle, and protective ones, such as an active lifestyle and good nutritional habits, play a key antagonistic role in determining quality of life and successful aging.

This Special Issue aims to focus on the effects of an active life and appropriate lifelong nutritional habits on physical fitness and body composition in order to achieve successful aging and to counteract non-communicable disease development.





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Editor-in-Chief

Prof. Dr. Paul R. Ward

School of Society and Culture,
Adelaide University, Adelaide
5001, Australia

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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MDPI, Grosspeteranlage 5
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