

Special Issue

Effects of Resistance Exercise Variables on Muscle Adaptation and Physical Performance

Message from the Guest Editor

Skeletal muscle is a prerequisite for directed movement of humans and physical performance in sports. Due to its ability to adapt to a wide range of mechanical and metabolic stimuli, exercise provides the fundamental basis for performance enhancement. Resistance exercise is a highly potent method to increase skeletal muscle mass and force generation in humans, a key factor for performance in many disciplines. Research in recent decades has generated a profound knowledge of molecular mechanisms that explain skeletal muscle adaptation towards resistance exercise. Major mechanisms that maintain skeletal muscle proteostasis in mechanically loaded human skeletal muscle, involve molecular networks that control synthesis and degradation of functional proteins within myofibers.

Guest Editor

Prof. Dr. Sebastian Gehlert

1 Institute of Sports Science, University of Hildesheim, Hildesheim, Germany;

2 Institute of Cardiovascular Research and Sports Medicine, Department for Molecular and Cellular Sports Medicine, German Sport University Cologne, Cologne, Germany

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Sports
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sports@mdpi.com

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Message from the Editor-in-Chief

Sports (ISSN 2075-4663) is a peer-reviewed scientific journal that publishes original articles, critical reviews, research notes and short communications in the interdisciplinary area of sport sciences and public health. It links several scientific disciplines in an integrated fashion, to address critical issues related to sport science and public health. The journal presents diverse original articles, including systematic and narrative reviews, cohort and case control studies, innovative randomized trials, and formative research using qualitative and quantitative methods with the aim to provide information for researchers to plan intervention programs. It addresses diverse public health, physical activity and exercise science topics.

Editor-in-Chief

Prof. Dr. Eling Douwe De Bruin

1. Institute of Human Movement Sciences and Sport, IBWS ETH, HCP H 25.1, Leopold-Ruzicka-Weg 4, CH-8093 Zürich, Switzerland
2. Karolinska Institutet, Stockholm, Sweden

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