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increase in capillary transit time ctt up to 69 with near complete coronary sinus cs occlusion is the key change associated with csr since 1948 the journal of applied physiology has published the top research on diverse topics of applied physiology in both humans and animals that examined the acute and adaptive response of various tissues and organ systems including the neuromuscular respiratory and cardiovascular systems to stressors such as exercise heat altitude career guidance view collection case studies in physiology view collection cores of reproducibility in physiology this collection represents best practice in physiology for a particular method or equipment that is in broad common use the journal of applied physiology is a monthly peer reviewed medical journal of physiology published by the american physiological society the journal was established in 1948 and is currently edited by sue bodine 1 according to the journal citation reports the journal has a 2020 impact factor of 3 531 2 the journal of applied physiology publishes the highest quality original research and reviews that examine novel adaptive and integrative physiological mechanisms in humans and animals that advance the field applied physiology is the study of biological systems and steps into practice it involves the application of the knowledge of physiological properties to restore core stability and joint stability it differs from clinical practice overview european journal of applied physiology aims to promote advances in human integrative and translational physiology to further understanding of the functioning of healthy humans welcomes original research and narrative style reviews dealing with physiological mechanisms underlying physical exercise training and performance the emergence of applied physiology within the discipline of physiology j appl physiol 1985 2016 aug 1 121 2 401 14 doi 10 1152 japplphysiol 00767 2015 epub 2016 apr 28 author charles m tipton 1 affiliation 1 department of physiology university of arizona tucson arizona tipton email arizona edu pmid 27125848 from the beginning exercise physiology has been an integrative science understanding the physiological responses to acute or chronic exercise in the whole organism requires an acknowledgement of the influence of variables such as the mechanical neural environmental psychological hormonal diurnal and nutritional factors that affect our ex instructions for authors types of papers graphical abstract manuscript submission title page text scientific style references tables artwork and illustrations guidelines supplementary information si ethical responsibilities of authors authorship principles compliance with ethical standards competing interests volume 123 january december 2023 issue 12 december 2023 issue 11 november 2023 issue 10 october 2023 issue 9 september 2023 issue 8 august 2023 issue 7 july 2023 issue 6 june 2023 issue 5 may 2023 the applied physiology program aims to provide advanced 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molecular responses to training bouts become refined or attenuated in the trained state this study examined how proteolysis related biomarkers and extracellular matrix ecm remodeling factors respond to a bout of rt in the untrained ut and trained t state integrative physiology programme learn more brian kennedy distinguished professor of biochemistry and physiology centre for healthy ageing learn more

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declines in skeletal muscle health are a concern for astronauts on long duration spaceflights the current findings add to the growing body of exercise countermeasures data suggesting that small doses of specific exercise can be beneficial for certain aspects of skeletal muscle health

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we applied a validated computer model of the coronary microcirculation to investigate how csr affects hemodynamics under different degrees of coronary artery stenosis with moderate coronary stenosis an increase in capillary transit time ctt up to 69 with near complete coronary sinus cs occlusion is the key change associated with csr

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from the beginning exercise physiology has been an integrative science understanding the physiological responses to acute or chronic exercise in the whole organism requires an acknowledgement of the influence of variables such as the mechanical neural environmental psychological hormonal diurnal and nutritional factors that affect our ex

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