Scope of Journal

The Journal of Applied Physiology publishes original papers that deal with diverse areas of research in applied physiology, especially those papers emphasizing adaptive and integrative mechanisms. Adaptive physiology includes 1) inherent adaptations such as those related to development, aging, and pathophysiologival conditions and 2) adaptations to the external environment such as those occurring with exercise, microgravity, hypoxia, hypo- and hyperbaria, and hypo- and hyperthermic conditions. Integrative physiology includes 1) horizontal integration across organ systems and 2) vertical integration from molecule to cell to organ. In all areas of applied physiology, the use of cutting-edge techniques including molecular and cellular biology is strongly encouraged.

The wide scientific span of the Journal rests on physiology as its keystone. However, the boundaries of physiology have enlarged as demarcations between concepts and techniques in the physiological, pharmacological, and biochemical sciences become increasingly blurred. Moreover, theoretical articles on research at any level of biological organization ranging from molecules to humans fall within the broad scope of the Journal. Papers dealing with topics in other basic sciences that impinge on physiology are also welcome.

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Energetic costs of producing muscle work and force in a cyclical human bouncing task
Jesse C. Dean and Arthur D. Kuo

Identifying cardiovascular neurocircuitry involved in the exercise pressor reflex in humans using functional neurosurgery
Shanika D. Basnayake, Jonathan A. Hyam, Erlick A. Pereira, Patrick M. Schwer, John-Stuart Brittain, Tipu Z. Aziz, Alexander L. Green, and David J. Paterson

Chronic heart failure reduces Akt phosphorylation in human skeletal muscle: relationship to muscle size and function
Michael J. Toth, Kimberly Ward, Jos van der Velden, Mark S. Miller, Peter VerBuren, Martin M. LeWinter, and Philip A. Ades

Role of Rho-kinase signaling and endothelial dysfunction in modulating blood flow distribution in pulmonary hypertension
Daryll C. Schwenger, James T. Pearson, Takashi Sonobe, Hatsue Ishibashi-Ueda, Akito Shimouchi, Kenji Kangawa, Keiji Umetani, and Mikiyasu Shirai

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