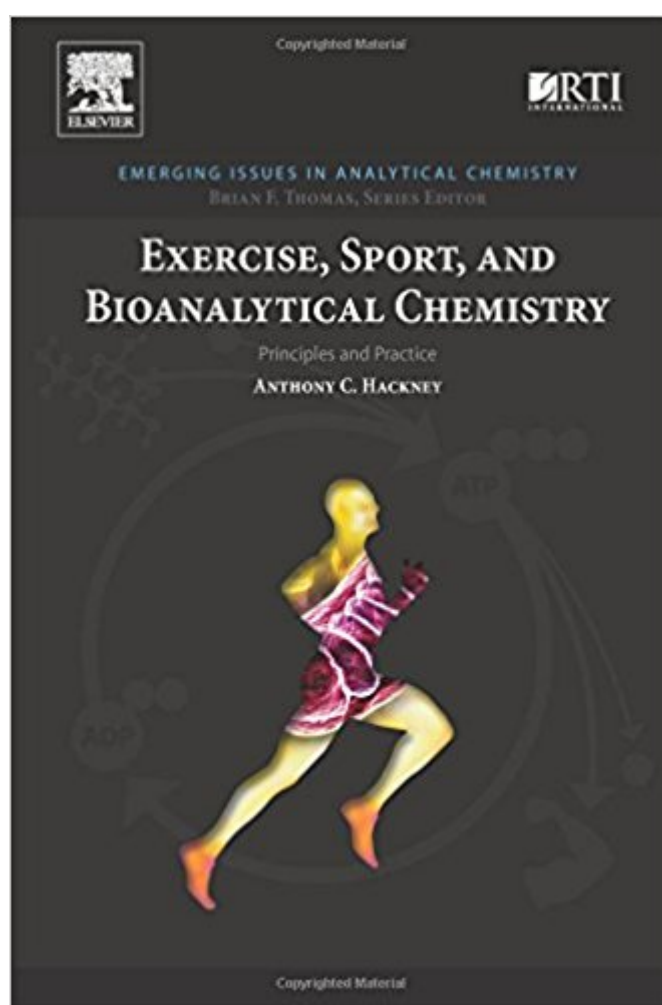


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# Exercise, Sport, And Bioanalytical Chemistry: Principles And Practice (Emerging Issues In Analytical Chemistry)



## Synopsis

A new volume in the Emerging Issues in Analytical Chemistry series, *Exercise, Sport, and Bioanalytical Chemistry: Principles and Practice* focuses on the basic and applied aspects of energy metabolism in humans. Concise and scientific, yet intelligible to the nonscientist, the book consists of two parts. Part I, *Introduction: Basics and Background*, provides the biochemistry necessary to understand the rest of the book and describes analytical processes and results as an aid to grasping the science. Part II, *Applications: Knowledge into Practice*, explores measurement techniques for metabolism, energy expenditure of various activities, techniques that enhance expenditure, metabolic adaptation, foods and drugs that enhance expenditure, and the role of bioanalytical chemistry in future research in exercise and sport. Discussion of the benefits of exercise and practices for improving the capacity to perform exercise is illustrated by many useful and entertaining examples. This volume allows readers to come away with a grasp of the scientific concepts, how they are manifested in research techniques, and how the results of research can be applied in the real world of public health and personal development. The Emerging Issues in Analytical Chemistry series is published in partnership with RTI International and edited by Brian F. Thomas. Please be sure to check out our other featured volumes: Thomas, Brian F. and ElSohly, Mahmoud. *The Analytical Chemistry of Cannabis: Quality Assessment, Assurance, and Regulation of Medicinal Marijuana and Cannabinoid Preparations*, 9780128046463, December 2015. Tanna, Sangeeta and Lawson, Graham. *Analytical Chemistry for Assessing Medication Adherence*, 9780128054635, April 2016. Rao, Vikram, Knight, Rob, and Stoner, Brian. *Sustainable Shale Oil and Gas: Analytical Chemistry, Biochemistry, and Geochemistry Methods*, 9780128103890, forthcoming September 2016. Farsalinos, Konstantinos, et al. *Analytical Assessment of e-Cigarettes: From Contents to Chemical and Particle Exposure Profiles*, 9780128112410, forthcoming November 2016. Provides readers with the fundamental biochemistry and some elements of the physiology behind physical activity/exercise and describes the analytical techniques used to elucidate the science. Written in clear, concise, compelling prose that is neither simplistic to scientists nor too sophisticated for a large, diverse global audience. A one-page Close-Up in each chapter illustrates key topics to catch, engage, entertain, and create a novel synthesis of thought.

## Book Information

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## Customer Reviews

Dr. Anthony C. Hackney is a Professor of Exercise Physiology & Nutrition at the University of North Carolina, Chapel Hill. His research group studies how stress affects the hormonal responses of the endocrine system. In particular his focus is upon the dysfunctions and dysregulations that develop from stress exposures which can ultimately compromise physiological responses and adaptations. Dr. Hackney is an editor and author of the successful book Endocrinology of Physical Activity and Sport and has published over 200 peer-reviewed research papers and book chapters, given over 150 national and international scientific conference presentations, and has had current and previous research projects funded by the National Institutes of Health, Department of Defense, USAID, and the National Academy of Sciences. He is an Editorial Board member for five exercise science, sports medicine, and physiology journals; has done visiting professorships in Uruguay, Kosovo, Norway, New Zealand, Germany, and Estonia; and is on the Board of Directors of the Center for the Study of Retired Athletes, UNC-CH. A recipient of three Fulbright Scholar awards, he was named Fellow, American Academy of Kinesiology (2010), Montoye Research Scholar, the American College of Sports Medicine (2015), Fellow, Huffines Institute for Sports Medicine (2015), and Kean-Pogue Senior Research Scholar, University of North Carolina (2016), among other honors and awards.

Excellent small book and must have for any educated personal trainer or individuals interested in subject. Short and easy to read.

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