An excellent source of up-to-date information

Acute Topics

Acute Topics in Sport Nutrition

KARGER

Editor Manfred Lamprecht

In high-performance sport an optimal diet and nutritional interventions can make the difference between victory and defeat. In recent years, sport nutrition research has increased. This publication provides scientifically-based information with regard to the bioefficacy of trendy sport supplements and dietary approaches off the mainstream. International experts in the specific fields inform and clarify under which circumstances the application of certain supplements and nutritional interventions would be beneficial, either for the performance or health of the athletes. A broad spectrum of recent topics in sport nutrition is provided: selected sport supplements off the mainstream, nutritional interventions and athlete's health, hydration and fluid balance and current aspects in exercise and exercise recovery. Finally, the publication concludes with recent information about the risk of supplementation and inadvertent doping.

The book will be of benefit to sport physicians and scientists, nutritionists, coaches and athletes, as well as to the sport nutrition trade and related industries.

Medicine and Sport Science, Vol. 59 **Acute Topics in Sport Nutriton** Editor: Lamprecht, M. (Graz) VIII + 156 p., 17 fig., 6 tab., hard cover, 2012 CHF 189.– / EUR 158.– / USD 222.00 ISBN 978–3–8055–9992–4 e-ISBN 978–3–8055–9993–1 Prices subject to change EUR price for Germany, USD price for USA only Fields of Interest: Sports Medicine; Nutrition; Biochemistry, Metabolism, Physiology



KARGER

• Preface: Lamprecht, M. Selected Off – Mainstream Sport Supplements

CONTENTS

- Beta-Alanine Supplementation in High-Intensity Exercise: Harris, R.C.; Sale, C.
- Arginine and Citrulline Supplementation in Sports and Exercise: Ergogenic Nutrients?: *Sureda, A.; Pons, A.*
- Dietary Nitrate and O₂ Consumption during Exercise: Jones, A.M.; Bailey, S.J.; Vanhatalo, A.
- GABA Supplementation and Growth Hormone Response: *Powers, M.*

Nutritional Interventions and Athlete's Health

- Exercise, Intestinal Barrier Dysfunction and Probiotic Supplementation: *Lamprecht, M.; Frauwallner, A.*
- Pleuran (β-Glucan from *Pleurotus ostreatus*): An Effective Nutritional Supplement against Upper Respiratory Tract Infections?: *Majtan, J.*
- Bovine Colostrum and Immune Function after Exercise: *Davison, G.*
- Supplementation with Mixed Fruit and Vegetable Concentrates in Relation to Athlete's Health and Performance: Scientific Insight and Practical Relevance: *Lamprecht, M.*
- Cherry Juice Targets Antioxidant Potential and Pain Relief: *Kuehl, K.S.*
- Impact of Milk Consumption and Resistance Training on Body Composition of Female Athletes: *Josse, A.R.; Phillips, S.M.*

Hydration and Fluid Balance

- Glycerol Use in Hyperhydration and Rehydration: Scientific Update: van Rosendal, S.P.; Coombes, J.S.
- Salt and Fluid Loading: Effects on Blood Volume and Exercise Performance: *Mora-Rodriguez, R.; Hamouti, N.*
- Milk Protein and the Restoration of Fluid Balance after Exercise: *James, L.*

Current Aspects of Recovery

- Chocolate Milk: A Post-Exercise Recovery Beverage for Endurance Sports: *Pritchett, K.; Pritchett, R.*
- Role of Supplementary L-Carnitine in Exercise and Exercise Recovery: *Huang, A.; Owen, K.*

Supplementation and Inadvertent Doping

• Supplements and Inadvertent Doping – How Big Is the Risk to Athletes?: *Judkins, C.; Prock, P.*

www.karger.com/mspsc

ORDER FORM Medicine and Sport Science

Please send

copy/ies: Vol. 59: Acute Topics in **Sports Nutrition** CHF 189.-/ EUR 158.-/ USD 222.00 ISBN 978-3-8055-9992-4 copy/ies: ISBN 978-3-the book series Medicine and Sport Science on continuation beginning with vol. All Karger series are available on continuation. Each volume will be sent upon publication until order is countermanded. For easy ordering or information about other Karger publications log on to www.karger.com Postage and handling free with prepayment Payment Please charge this order to my credit card MasterCard American Express Diners Visa Card No.: Exp. date: CVV/CVC: Check enclosed Please bill me Name/Adress (please print): Date: Signature:

Orders can be placed at agencies, bookstores, directly with the publisher, or with any Karger distributor.

S. Karger AG, P.O. Box, 4009 Basel (Switzerland) Fax +41 61 306 12 34, E-Mail orders@karger.ch

USA: S. Karger Publishers, Inc., 26 West Avon Road, P.O. Box 529, Unionville, CT 06085 (USA), Toll free: +1-800-828-5479

Germany: S. Karger GmbH, 79095 Freiburg France: Librairie Médi-Sciences, 75007 Paris

Gulf Council Countries, Iran, Middle East, North Africa, Turkey: Trans Middle East Internat. Distribution Co. Ltd., KaSha, Amman 11953 (Jordan)

Japan: Karger Japan, Inc., Tokyo 105-0012

South East Asia, China and Taiwan: Karger Regional Office, Kuala Lumpur 50470 (Malaysia) For details and further representatives and agencies see: www.karger.com/worldwide

The Book Series

Medicine and **Sport Science**

Series Editors: Borms, J. (Brussels); Hebbelinck, M. (Brussels); Hills, A.P. (Brisbane); Noakes, T. (Cape Town) ISSN 0254-5020, e-ISSN 1662-2812

This series was inaugurated at a time when the sports sciences were separated from medicine. From the first volume on, the editors have united these two areas in order to bridge the gap between medicine and sport science and to give the scientific community at large, and biomedical researchers in particular, the full benefit of current advances being made in the multifaceted domains of sports medicine. Contributions from biomechanics, biochemistry, morphology, engineering, and from different areas of clinical medicine are incorporated into this innovative series.



Vol. 58

Epidemiology of Injury in Adventure and Extreme Sports Editors: Heggie, T.W.(Bowling Green, Ohio); Caine, D. (Grand Forks, N.Dak.) XI + 178 p., 18 fig., 46 tab., hard cover, 2012 CHF 195.-/ EUR 163.-/ USD 229.00 ISBN 978-3-318-02164-6 e-ISBN 978-3-318-02165-3

Vol. 57

Rotator Cuff Tear Editor: Maffulli, N. (London) X + 186 p., 40 fig., 18 in color, 5 tab., hard cover, 2012 CHF 240.-/EUR 200.-/USD 282.00 ISBN 978-3-8055-9814-9 e-ISBN 978-3-8055-9815-6

Vol. 56

The Elite Young Athlete Editors: Armstrong, N. (Exeter); McManus, A.M. (Hong Kong) VIII + 206 p., 19 fig., 22 tab., hard cover, 2011 CHF 189.-/ EUR 158.-/ USD 222.00 ISBN 978-3-8055-9550-6 e-ISBN 978-3-8055-9551-3

Further back volumes available, please ask for details or log on to:

www.karger.com/mspsc

Prices subject to change EUR price for Germany, USD price for USA only

KARGER

To be ordered through: