

ORIGINAL ARTICLES

**Differences in physical fitness among indoor and outdoor elite male soccer players**

E.M. Gorostiaga · I. Llodio · J. Ibáñez · C. Granados · I. Navarro · M. Ruesta · H. Bonnabau · M. Izquierdo 483

**Rapidity of responding to a hypoxic challenge during exercise**

B.D. Johnson · T. Joseph · G. Wright · R.A. Battista · C. Dodge · A. Balweg · J.J. de Koning · C. Foster 493

**Aerobic high intensity one and two legs interval cycling in chronic obstructive pulmonary disease: the sum of the parts is greater than the whole**

S. Bjørgen · J. Hoff · V.S. Husby · M.A. Høydal · A.E. Tjønnå · S. Steinshamn · R.S. Richardson · J. Helgerud 501

**The effects of sildenafil and acetazolamide on breathing efficiency and ventilatory control during hypoxic exercise**

S. Lalonde · E.M. Snyder · T.P. Olson · M.L. Hulsebus · M. Orban · V.K. Somers · B.D. Johnson · R.P. Frantz 509

**Thirteen days of "live high-train low" does not affect prooxidant/antioxidant balance in elite swimmers**

V. Pialoux · R. Mounier · J.V. Brugniaux · E. Rock · A. Mazur · J.-P. Richalet · P. Robach · J. Coudert · N. Fellmann 517

**Hemodynamic responses to metaboreflex activation: insights from spinal cord-injured humans**

A. Crisafulli · R. Milia · S. Vitelli · M. Cadedo · F. Tocco · F. Meis · A. Concu 525

**Influence of gender on pacing adopted by elite triathletes during a competition**

Y. Le Meur · C. Hausswirth · S. Dorel · F. Bignet · J. Brisswalter · T. Bernard 535

**Increased distensibility in dependent veins following prolonged bedrest**

R. Kølsgård · I.B. Mekjavic · O. Eiken 547

**The endothelial microparticle response to a high fat meal is not attenuated by prior exercise**

M. Harrison · R.P. Murphy · P.L. O'Connor · D.J. O'Garra · N. McCaffrey · P.M. Cummins · N.M. Moyna 555

**Assessment of plantar flexors activation capacity: nerve versus muscle stimulation by single versus double pulse**

G. Scaglioni · A. Martin 563

**Running versus strength-based warm-up: acute effects on isometric knee extension function**

O. Girard · Y. Carbonnel · R. Candau · G. Millet 573

**Effects of spinal anesthesia on resting metabolic rate and quadriceps mechanomyography**

W.P. McKay · B. Lett · P.D. Chilibeck · B.L. Daku 583

**Influence of combined exercise and gravity transients and apnea on hemodynamics**

U. Hoffmann · T. Dräger · A. Stegmanns · T. Koesterer · D. Linnarsson 589

**Moderate altitude but not additional endurance training increases markers of oxidative stress in exhaled breath condensate**

I. Heinicke · A. Boehler · T. Rechsteiner · A. Bogdanova · W. Jelkmann · M. Hofer · P. Rawlings · O.F. Aranea · C. Behn · M. Gassmann · K. Heinicke 599

**The influence of training status on the drop in muscle strength after acute exercise**

J. Pingel · L. Moersch · M. Kjaer · H. Langberg 605

**Day-to-day variability in voluntary wheel running among genetically differentiated lines of mice that vary in activity level**

J.C. Eisenmann · E.E. Wickel · S.A. Kelly · K.M. Middleton · T. Garland Jr 613

**Lung-to-lung circulation times during exercise in heart failure**

N.R. Morris · E.M. Snyder · K.C. Beck · B.D. Johnson 621

**Endurance and neuromuscular changes in world-class level kayakers during a periodized training cycle**

J. García-Pallarés · L. Sánchez-Medina · L. Carrasco · A. Díaz · M. Izquierdo 629

SHORT COMMUNICATION

**Haptoglobin genotype and endothelial function in diabetes mellitus: a pilot study**

L. Dayan · A.P. Levy · S. Blum · R. Miller-Lotan · U. Melman · J. Alshiek · G. Jacob 639

Further articles can be found at [www.springerlink.com](http://www.springerlink.com)

Indexed/abstracted by *Current Contents* and *Index Medicus*

Instructions for Authors for *Eur J Appl Physiol* are available at <http://www.springer.com/00421>