

REVIEW

**Seasonal variations in physical activity and implications for human health**

R.J. Shephard · Y. Aoyagi 251

ORIGINAL ARTICLES

**Repeated sprint tests in young basketball players at different game stages**

Y. Meckel · R. Gottlieb · A. Eliakim 273

**Assessment of cerebral oxygenation during prolonged simulated driving using near infrared spectroscopy: its implications for fatigue development**

Z. Li · M. Zhang · X. Zhang · S. Dai · X. Yu · Y. Wang 281

**Relationship between muscle coordination and racket mass during forehand drive in tennis**

I. Rogowski · T. Creveaux · A. Faucon · S. Rota · S. Champely · A. Guillot · C. Hautier 289

**Short-term exercise training improves aerobic capacity with no change in arterial function in obesity**

T. Baynard · R.L. Carhart Jr · R.S. Weinstock · L.L. Ploutz-Snyder · J.A. Kanaley 299

**Effect of exercise on glutamine metabolism in macrophages of trained rats**

R.V.T. dos Santos · É.C. Caperuto · M.T. de Mello · L.F.B.P. Costa Rosa 309

**The 6-min walk test in heart failure: is it a max or sub-maximum exercise test?**

M. Jehn · M. Halle · T. Schuster · H. Hanssen · M. Weis · F. Koehler · A. Schmidt-Trucksäss 317

**Oximetry with the NMR signals of hemoglobin Val E11 and Tyr C7**

H. Xie · U. Kreutzer · T. Jue 325

**The influence of leptin on the activity of lung lymphocytes under simulated microgravity**

X. Li · C.-T. Liu · H. Zhou 335

**Effect of hypobaric hypoxia on heart rate variability during exercise: a pilot field study**

P. Zupet · T. Princi · Z. FINDERLE 345

**Endurance training enhances ABCA1 expression in rat small intestine**

B.M. Khabazian · A. Ghanbari-Niaki · A.r. Safarzadeh-Golpordesari · M. Ebrahimi · F. Rahbarizadeh · H. Abednazari 351

**Plasma and erythrocyte phospholipid fatty acid profile in professional basketball and football players**

J. Tepsic · V. Vucic · A. Arsic · V. Blazencic-Mladenovic · S. Mazic · M. Glibetic 359

**Calculation of the external work done during walking in very young children**

B. Schepens · C. Detrembleur 367

REPLY

**Reply to "IL6 genotype and creatine kinase response to exercise"**

C. Yamin 375

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

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

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