

CMRC PUBLICATIONS 2001**I. Skeletal muscle – fibre type and metabolic differentiation, including diseases****I. Original Articles**

Aagaard P, Andersen JL, Dyhre-Poulsen P, Leffers AM, Wagner Aa, Magnusson SP, Halkjær-Kristensen J, Simonsen EB. A mechanism for increased contractile strength of human pennate muscle in response to strength training: changes in muscle architecture. *J Physiol* 534, 613-623, 2001.

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Helge JW, Therkildsen KJ, Jørgensen TB, Wu BJ, Storlien LH, Asp S. Eccentric contractions affect muscle membrane phospholipid fatty acid composition in rats. *Experimental Physiol* 86.5, 599-604, 2001.

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Holme E, Mohr T, Kjær M, Nielsen B. Temperature regulation during electrically induced cycling in spinal cord injured individuals. *Med Sci Sports Ex.* 33 : 431-435, 2001.

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Sandri M, El Meslemani AH, Sandri C, Schjerling P, Vissing K, Rossini K, Carraro U, Angelini C. Caspase 3 expression correlates with skeletal muscle apoptosis in Duchenne and facioscapulo human muscular dystrophy. A potential target for pharmacological treatment?. *J Neuropathol Exp Neurol* 60, 302 – 312, 2001.

I. Reviews, Book Chapters, Symposia Contributions, etc.

I. Knowledge dissemination

Andersen JL. Muscle fibre type characteristics of the runner. In: Running and Science. Bangsbo J, Larsen H (eds.). Munksgaard, 49-67, 2001.

II a. Metabolism

II a. Original Articles

Aarnio P, Lauritsen T, Dela F. Insulin secretion and glucose kinetics during exercise with and without pharmacological $\alpha 1$ – and $\alpha 2$ -receptor blockade. *Diabetes* 50, 1834-43, 2001.

Blomstrand E, Saltin B. BCAA intake affects protein metabolism in muscle after but not during exercise in humans. *Am J Physiol* 281, E365-E374, 2001.

Coker R, Simonsen L, Bülow J, Wassermann DH, Kjær M. Compensation for glucagon deficiency in the stimulation of splanchnic glucose production during moderate and heavy exercise in humans. *Am J Physiol* 280: E918-E927, 2001.

Dall R, Lange KHW, Kjær M, Jørgensen JOL, Christensen JS, Ørskov H, Flyvbjerg A. No evidence of insulin-like growth factor binding protein 3 (IGFBP-3) proteolysis during a maximal exercise test in elite athletes. *J Clin Endocrinol Metab* 86: 669-674, 2001.

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Lange KHW, Lorentsen J, Isaksson F, Juul A, Christensen NJ, Bülow J, Kjær M. Effects of endurance training on subcutaneous adipose tissue lipolysis in elderly women determined by microdialysis. *Am J Physiol* 280: E886-E897, 2001.

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Ralston E, Ploug T, Kalhovde J, Lømo T. Golgi complex, endoplasmic reticulum exit sites, and microtubules in skeletal muscle fibers are organized by patterned activity. *J Neuroscience* 21, 875-883, 2001.

Stallknecht B, Enevoldsen L, Lorentsen L, Bülow J, Biering-Sørensen F, Galbo H, Kjær M. Role of the sympathoadrenergic system in adipose tissue metabolism during exercise in humans. *J Physiol* 536: 283-294, 2001.

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II a. Reviews, Book Chapters, Symposia Contributions, etc.

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II a. Knowledge dissemination

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II b. Nucleotides, electrolytes, and pH regulation

II b. Original Articles

II c. Immune response (cytokines)

II c. Original Articles

Krzywkowski K, Petersen EW, Ostrowski K, Link-amster H, Boza J, Halkjær-Kristensen J, Pedersen BK. Effect of glutamine and protein supplementation on exercise-induced decreases in salivary IgA. *J Appl Physiol* 91, 832-838, 2001.

Krzywkowski K, Petersen EW, Ostrowski K, Boza J, Halkjaer-Kristensen J, Pedersen BK. Effect of glutamine supplementation on exercise-induced changes in lymphocyte function. *Am J Physiol* 281 (4), 1259-65, 2001.

Nielsen HB, De Palo EF, Meneghetti M, Madsen PL, Ihlemann N, Secher NH. Circulating immunoreactive proANP (1-30) and proANP (31-67) responses to acute exercise. *Reg Pep* 99, 203-207, 2001.

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Steensberg A, Vissing J, Pedersen BK. Lack of IL-6 production during exercise in patients with mitochondrial myopathy. *Eur J Appl Physiol* 84, 155-157, 2001.

Steensberg A, Toft AD, Schjerling P, Halkjær-Kristensen J, Pedersen BK. Plasma interleukin-6 strenuous exercise: role of epinephrine. *Am J Physiol* 281, 1001-1004, 2001.

II c. Reviews, Book Chapters, Symposia Contributions, etc.

Hoffman-Goetz L, Pedersen BK. Immune responses to acute exercise: hemodynamic, hormonal, and cytokine influences. *Psychoneuroimmunology*, 3rd edition, vol.2, 123-132, 2001.

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Pedersen BK, Steensberg A, Schjerling P. Muscle – derived interleukin-6 – possible biological effects. A topical review. *J Physiol.* 329-337, 2001.

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II c. Knowledge dissemination

Pedersen BK. Physical activity and the immune system - for the better and the worse. In: *Current results on health and physical activity, series club of Cologne Vol. 2*, Haufmann-Schauter-Verlag. (ed) Hollmann W, Kurz D, Mester J, pp 61-86, 2001.

Pedersen BK. Prolonged exercise and the immune system. In: *Marathon Medicine 2000*, (ed) Dan Tunstall Pedoe. 2001.

III. Cardiovascular regulation, oxygen uptake, and mitochondrial respiration

III. Original Articles

Boushel R, Calbet JA, Rådegran G, Søndergaard H, Wagner PD, Saltin B. Parasympathetic Neural Activity Accounts for the Lowering of Exercise Heart Rate at High Altitude. *Circulation* 104, 1785-1791, 2001.

Boushel R, Langberg H, Olesen J, Gonzales-Alonso J, Bülow J, Kjær M. Monitoring tissue oxygen availability with near infrared spectroscopy (NIRS) in health and disease. *Scand J Med Sci Sports* 11: 213-222, 2001.

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McGuire DK, Levine BD, Williamson JW, Snell PG, Blomqvist CG, Saltin B, Mitchell JH. A 30-year follow-up of the Dallas bed rest and training study. I. Effect of age on the cardiovascular response to exercise. *Circulation* 104, 1350-1357, 2001.

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III. Reviews, Book Chapters, Symposia Contributions, etc.

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III. Knowledge dissemination

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