Muscle Physiology and Biomechanics Research Unit (MoB)
Scientific Publications and Conference Presentations 2006-2009

2009

Scientific articles (2009)


Carlson M, Suetta C, Conboy M, Aagaard P, Mackey A, Kjaer K, Conboy I. Molecular aging and rejuvenation of human muscle stem cells. EMBO Molecular Medicine 1, 1-11, 2009


Conference presentations - published abstracts (2009)

Hvid L, Ørtenblad N, Aagaard P, Kjaer M, Suetten C. Immobilization leads to impaired single muscle fibre contractility in old and young healthy individuals. Dansk Sportsmedicin 1, p29, 2009


Lecture "Immobilization leads to impaired single muscle fibre contractility in old and young healthy individuals". Danish Soc. Sports Med. Annual Meeting, Odense (LH)

Invited Lecture "Muscle Fatigue In Elite Cross-Country Skiers; A Link Between Sarcoplasmic Reticulum Function and Glycogen Availability?". 14th Annual Congress of the European College of Sport Science, Oslo, Norway (ND)

Invited Lecture "Effects of musculoskeletal loading on the prevention and rehabilitation of muscle-tendon injury: biomechanical and neural aspects ", Masters Course in Team Sports Training, INEF and FC Barcelona, University of Barcelona, Spain (PAa)

Invited Lecture "Changes in neuromuscular function induced by training: implications for athletic performance", Masters Course in Team Sports Training, INEF and FC Barcelona, University of Barcelona, Spain (PAa)


Invited Lecture "Neuromuscular plasticity to training: spinal and supraspinal adaptations", 1st MuscleTech Workshop: Muscle and Tendon - Research Strategies and Wellness Trends; Biocat - The Bioregion of Catalonia, Secretaria Generale de l’Esport de Catalunya, Fundació FC Barcelona, Barcelona (PAa)

Invited Lecture "Strength training: effects on endurance capacity in Top Level Athletes", International Consensus Conference: Performance in Top Sports Involving Intense Exercise; Institute of Sports and Exercise Science, University of Copenhagen and Team Danmark Elite Sports Association, Copenhagen (PAa)

Invited Lecture "The influence of eccentric strength training on the enhancement of maximal muscle strength, explosive force and muscular power - Consequences for Athletic Performance", 1st International CIIDES Symposium: Performance enhanced by bridging the gap between theory and practice, Vila Real, Portugal (PAa)

Invited Lecture "Testing neuromuscular activation on humans - from top athletes to fragile patients", The 3rd Network Meeting: Nordic Research Schools in Musculoskeletal System and Physical Activity, Oslo (PAa)

Invited Lecture "Training-induced changes in neural function", The 3rd Network Meeting: Nordic Research Schools in Musculoskeletal System and Physical Activity, Oslo (PAa)

Invited Lecture "Effects of musculoskeletal loading on the prevention and rehabilitation of muscle-tendon injury: biomechanical and neural aspects", European Society of Biomechanics (ESB) 2009 Workshop: Movement Biomechanics and Sport, Zürich (PAa)

Lecture "Effects of aging on changes in muscle power and postural control after immobilization and re-training", American College of Sports Medicine Annual Meeting, Seattle, USA (PAa)

Invited Lecture "Changes in neuromuscular function induced by training - implications for athletic performance", Masters Course in Team Sports Training, INEF and FC Barcelona, University of Barcelona (PAa)

Invited Lecture "Tendon hypertrophy; Is it possible? Do we want it? How can we target it?", UK Athletics / UK Sports Meeting, Birmingham, UK (PAa)

Invited Lecture "Tendon loading to enhance injury resilience and/or SSC performance", UK Athletics / UK Sports Meeting, Birmingham, UK (PAa)

Invited Lecture "Prevention and prediction of muscle hamstring injury: effects of eccentric training, assessment of functional H/Q strength ratio", UK Athletics / UK Sports Meeting, Birmingham, UK (PAa)

Invited Lecture "Optimise fast fibre x-sectional area OR optimise IIx? Use of training to manipulate fibre-type transition (IX and/or IIx overshooting) in athletes", UK Athletics / UK Sports Meeting, Birmingham, UK (PAa)

Invited Lecture "Using Eccentric and Heavy Weight Training to Maximize Power or Strength", National Strength and Conditioning Association (NSCA) 2nd European Conference, Netherland Olympic Complex Papendal, Holland (PAa)

Invited Lecture "Use of resistance training in the prevention and rehabilitation of overuse injury in muscle and tendon", 2nd NSCA European Conference, Netherland Olympic Complex Papendal, Holland (PAa)

Invited Lecture "Neuromuscular adaptations to strength training in the elderly", at Focused Symposium: The ageing musculoskeletal system, Themed Meeting of The Physiological Society, King’s College London, UK (PAa)

Invited Lecture "Resistance training in older people: Effects on strength, power, muscle mass, neural function and functional capacity", at Research Symposium: Resistance exercise - strategies for training and rehabilitation in older people, Loughborough University, Leicestershire, UK (PAa)

"Effects of high-resistance strength training vs high-intensity running exercise on bone mass density and bone mineralization". Danish Society for Sports Medicine Annual Meeting, Copenhagen (PAa)

Invited Lecture "Training-induced changes in muscle morphology and neural function", ved symposium: 1st International Meeting of Elite Sports Performance Experts, T3 Top Training Centre Tenerifa, Spain (PAa)

2008

Scientific articles (2008)


Blazevich A, Cannavan D, Horne S, Coleman D, Aagaard P. Does strength training-induced fascicle lengthening affect contractile
Invited Lecture “Training in the elderly: Physiological and functional adaptations”, Department of Physical Performance, Norwegian School of Sport Sciences, Oslo, Norway (PAa)

2007

Scientific articles (2007)


Nielsen JS, Sahlin K, Ørtenblad N. Reduced sarcoplasmic reticulum content of releasable Ca2+ in rat soleus muscle fibres after eccentric contractions. Acta Physiol. (Oxf) 191, 217-228, 2007


Conference presentations - published abstracts (2007)


Scientific lectures (2007)

Lecture "Metabolic modulation of E-C coupling, 2nd MYONAK conference of K+, Na+ and the function of heart and skeletal muscle". 2nd MYONAK conference of K+, Na+ and the function of heart and skeletal muscle, Alberta, Canada (N0)


Invited Lecture "Changes in muscle morphology and neuromuscular function with eccentric strength training: Consequences for athletic performance and injury prevention", IX. Conference of Medicine and High Level Sport, Spanske Olympiske Komite Medicinske Kommission, Madrid (PAa)

Invited Lecture "Neurophysiological limiting factors to strength development: Effects of strength / resistance training", International Technical Scientific Conference on Strength Training, Italia Sport and Olympic Preparation / CONI Servizi, Italienske Olympiske Komite, Rom (PAa)

Invited Lecture "Changes in muscle morphology and neuromuscular function induced by eccentric strength training: Consequences for athletic performance", 25th Annual Symposium International Society of Biomechanics in Sports (ISBS), Ouro Preto, Belo Horizonte, Brasilien (PAa)

Invited Lecture "Muscle strength and power assessment in Track and Field athletes", 25th Annual Symposium International Society of Biomechanics in Sports (ISBS), Ouro Preto, Belo Horizonte, Brasilien (PAa)

Invited Lecture "Neuromuscular adaptation - changes in eccentric and explosive muscle strength" in session: Recent advancements in mechanisms related to strength and power training, Annual Congress European College of Sports Science, Jyväskylä, Finland (PAa)

Invited Lecture "Muscle EMG Activity During Maximal Eccentric Contraction - Effects of Strength Training" in session: Muscle activation during eccentric contractions, Annual Congress European College of Sports Science, Jyväskylä, Finland (PAa)

Lecture "Resistance training leads to altered muscle fiber type composition and enhanced long-term cycling performance in elite competitive cyclists", American College of Sports Medicine Annual Meeting, New Orleans, USA (PAa)


Invited Lecture "Strength development and trainability during childhood" ved 2nd International Scientific Conference: Training during childhood - Modern trends, Department of Physical Education & Sport Sciences, Aristotle University of Thessaloniki, Thessaloniki, Grækenland (PAa)

Invited Lecture "Adaptability in contractile muscle RFD with training", Department of Physical Education & Sport Sciences, Aristotle University of Thessaloniki, Thessaloniki, Grækenland (PAa)

2006

Scientific articles (2006)


Conference presentations - published abstracts (2006)


Thorlund JB, Michaelsik L, Madsen K, Aagaard P. Acute fatigue induced changes in muscle mechanical properties and neuromuscular activity in male elite handball players following a simulated handball match. Proc. ICST2006, 211-212, University of Southern Denmark, 2006


Scientific lectures (2006)

Invited Lecture "Changes in muscle morphology and neuromuscular function with eccentric strength training - Consequences for athletic performance", 5th International Conference on Strength Training, Syddansk Universitet (PAA)

Lecture "Changes in satellite cell and myonuclei number in human skeletal muscle with resistance training: effects of creatine and protein supplementation", American College of Sports Medicine Annual Meeting, Denver, USA (PAA)

Invited Lecture "Muscle Force-Velocity-Power relationships and explosive strength characteristics in old age", 18. Nordiske Gerontologi Kongres, Jyväskylä University, Finland (PAA)
Invited Lecture "Myogenic satellite cells: Effects of training and nutritional supplementation", Human Physiology Seminar, Institut for idræt og klinisk biomekanik, Syddansk Universitet, Odense (PAa)
Invited Lecture "Overtraining and under-recovery in resistance training", UK Sports High Performance Seminar, Belfry, Birmingham, England (PAa)
Lecture "Muscle satellite cells and myonuclei number: effects of strength training combined with creatine and protein supplementation. Danish Society for Sports Medicine Annual Meeting, Copenhagen (PAa)