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The Journal of Physical Fitness and Sports Medicine (JPFSM)

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Invited Review articles and Short review articles

Volume 5 (No. 1 - No. 5, 2016)

Publication lists (Articles = 35 papers)

◆Invited review and short review article contents (2016)

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1. The optimal exercise protocol for osteogenic response, Yoshihisa Umemura (School of Health and Sport Sciences, Chukyo University, Toyata, Aichi, 470-0393, Japan)

2. High-intensity interval training enhances oxidative capacity and substrate availability in skeletal muscle, Daisuke Hoshino, Yu Kitaoka and Hideo Hatta (1Department of Biological Sciences, The University of Tokyo, Bunkyo-ku, Tokyo 113-0033 and 2Department of Sports Sciences, The University of Tokyo, Meguro-ku, Tokyo 153-8902, Japan)

3. Gene-exercise interactions in the development of cardiometabolic diseases, Kumpei Tanisawa1,2,3, Masashi Tanaka2, Mitsuru Higuchi4 (1Faculty of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192, 2Department of Genomics for Longevity and Health, Tokyo Metropolitan Institute of Gerontology, Itabashi-ku, Tokyo 173-0015, 3Japan Society for the Promotion of Science, Chiyoda-ku, Tokyo 102-8472 and 4Institute of Advanced Active Aging Research, Waseda University, Tokorozawa, Saitama 359-1192, Japan)

4. Training-induced changes in architecture of human skeletal muscles: Current evidence and unresolved issues, Ryoichi Ema1,2, Ryota Akagi3, Taku Wakahara4 and Yasuo Kawakami5 (1Graduate School of Engineering and Science, Shibaura Institute of Technology, Minuma-ku, Saitama 337-8570, 2Research Fellow of Japan Society for the Promotion of Science, Kojimachi Business Center Building, Chiyoda-ku, Tokyo 102-0083, 3College of Systems Engineering and Science, Shibaura Institute of Technology, Minuma-ku, Saitama 337-8570, 4Faculty of Health & Sports Science, Doshisha University, Kyotanabe, Kyoto 610-0394, and 5Faculty of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192, Japan)

5. Approaches to Physical Fitness and Sports Medicine through X-ray Diffraction Analysis of Striated Muscle, Maki Yamaguchi1, Shigeru Takemori1, Masako Kimura2, Naoya Nakahara1, Tetsuo Ohno1, Toshiko Yamazawa1, Shunya Yokomizo3, Nobutake Akiyama4 and Naoto Yagi5 (1Department of Molecular Physiology, The Jikei University School of Medicine, Minato-ku, Tokyo 105-8461, 2Laboratory of Integrative Physiology, Kagawa Nutrition University, Sakado-city, Saitama 350-0288, 3Department of Molecular Immunology, The Jikei University School of Medicine, Minato-ku, Tokyo 105-8461 and 4JASRI, Research and Utilization division, Sayo-gun, Hyogo 689-5148, Japan)

6. Effects of acute exercise on executive function in children with and without
neurodevelopmental disorders, Keishi Soga¹, Keita Kamijo² and Hiroaki Masaki²
(¹Graduate School of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192 and ²Faculty of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192, Japan)

<Short Review Articles>

7. New aspects of microcurrent electrical neuromuscular stimulation in sports medicine, Hiroto Fujiya¹ and Katsumasa Goto² (¹Department of Sports Medicine, St. Marianna University School of Medicine, Kawasaki, Kanagawa 216-8511 and ²Department of Physiology, Graduate School of Health Sciences, Toyohashi SOZO University, Toyohashi, Aichi 440-8511, Japan)

8. Does vibration-induced kinesthetic illusion accompany motor responses in agonistic and antagonistic muscles?, Tomonori Kito (School of Health and Sports Science, Juntendo University, Inzai-shi, Chiba 270-1695, Japan)

9. Estrogenic modulation of female thermoregulatory behavior in a cold environment, Yuki Uchida¹, Kei Nagashima²-³ and Shuri Marui² (¹Department of Neurobiology and Anatomy, Kochi Medical School, Kochi University, Nankoku, Kochi 783-8505, Japan, ²Body Temperature and Fluid Laboratory (Laboratory of Integrative Physiology), Faculty of Human Sciences, Waseda University, Tokorozawa, Saitama 359-1192 and ³Institute of Applied Brain Sciences, Faculty of Human Sciences, Waseda University, Tokorozawa, Saitama 359-1192, Japan)

10. Mechanical and oxidative stress in osteoarthritis, Naoko Yui¹, Kazuo Yudoh², Hiroto Fujiya¹ and Haruki Musha¹ (¹Department of Sports Medicine, St. Marianna University School of Medicine, Miyamae-ku, Kawasaki, Kanagawa 216-8511 and ²Department of Frontier Medicine, Institute of Medical Science, St. Marianna University School of Medicine, Miyamae-ku, Kawasaki, Kanagawa 216-8512, Japan)

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<Review Articles>

1. Prevention of brain aging by green tea components: Roles of catechins and theanine, Keiko Unno (Department of Neurophysiology, School of Pharmaceutical Sciences, University of Shizuoka, Suruga-ku, Shizuoka 422-8526, Japan)

2. The “sense of effort” and M1 activity with special reference to resistance exercise with vascular occlusion, Yudai Takarada (Faculty of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192, Japan)
3. Cytoskeletons in neuronal development, Hiroki Akiyama and Shin-ichi Sakakibara
   (Laboratory of Molecular Neurobiology, Faculty of Human Sciences, Waseda University,
   Tokorozawa, Saitama 359-1192, Japan)

4. Effects of environmental and social stressors on biological rhythms, Hiroyuki
   Sakakibara\textsuperscript{1}, Michiko Torii Yasuda\textsuperscript{2} and Kayoko Shimo\textsuperscript{2} \textsuperscript{1}(Faculty of Agriculture,
   University of Miyazaki, Gakuen-kihanadai-nishi, Miyazaki 889-2192 and \textsuperscript{2}School of Food and Nutritional Sciences,
   University of Shizuoka, Suruga-ku, Shizuoka 422-8526, Japan)

5. Strategies for maximizing power and strength gains in isoinertial resistance training:
   Implications for competitive athletes, Akihiro Sakamoto\textsuperscript{1}, Peter James Sinclair\textsuperscript{2} and
   Hisashi Naito\textsuperscript{1} \textsuperscript{1}(Institute of Health and Sports Science & Medicine, Juntendo University,
   Inzai, Chiba 270-1695, Japan and \textsuperscript{2}Discipline of Exercise and Sport Science, Faculty of
   Health Sciences, The University of Sydney, Lidcombe, NSW 2141, Australia)

6. Age-related functional changes in the hematopoietic microenvironment, Isao Tsuboi,
   Tomonori Harada and Shin Aizawa (Division of Anatomical Science, Department of
   Functional Morphology, Nihon University School of Medicine, Itabashi-ku, Tokyo
   173-8610, Japan)

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7. Possible contributions of group III/IV muscle afferent feedback to exercise
   performance, Ryouta Matsuura (Graduate School of Education, Joetsu University of
   Education, Joetsu, Niigata 943-8512 and The Joint Graduate School in Science of School
   Education, Hyogo University of Teacher Education, Kato, Hyogo 673-1494, Japan)

8. A single bout of exercise and postprandial hyperglycemia caused by high-fat diet,
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   Japan)

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1. Transcranial static magnetic field stimulation - A new non-invasive brain stimulation
   tool, Hikari Kirimoto, Hiroyuki Tamaki and Hideaki Onishi (Institute for Human
   Movement and Medical Sciences, Niigata University of Health and Welfare, Kita-ku,
   Niigata 950-1398, Japan)

2. Biological roles and therapeutic potential of G protein-coupled receptors for free fatty
   acids and metabolic intermediates, Kenji Suzuki and Takako Kaneko-Kawano
3. Role of the secretory protein neudesin in energy metabolism, Hiroya Ohta (Department of Microbial Chemistry, Kobe Pharmaceutical University, Higashinada-ku, Kobe 658-8558, Japan)

4. Cardiocirculatory responses to passive walking-like leg movement in the standing posture in humans, Hisayoshi Ogata (Department of Lifelong Sports for Health, College of Life and Health Sciences, Chubu University, Kasugai, Aichi 487-8501, Japan)

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1. Bone loss due to disuse and electrical muscle stimulation, Hiroyuki Tamaki¹, Kengo Yotani², Futoshi Ogita³, Hikari Kirimoto¹, Hideaki Onishi¹ and Norikatsu Kasuga³ (¹Institute for Human Movement and Medical Sciences, Niigata University of Health and Welfare, Kita-ku, Niigata 950-1398, ²National Institute of Fitness and Sports in Kanoya, Kanoya, Kagoshima 891-2393 and ³Aichi University of Education, Kariya, Aichi 448-8542, Japan)

2. Cortical magnetic activation following voluntary movement and several types of somatosensory stimulation, Hideaki Onishi¹, Kazuhiro Sugawara³, Koya Yamashiro¹, Daisuke Sato¹, Hikari Kirimoto¹, Hiroyuki Tamaki¹, Hiroshi Shirozu¹ and Shigeki Kameyama² (¹Institute for Human Movement and Medical Sciences, Niigata University of Health and Welfare, Kita-ku, Niigata 950-3198, ²Department of Rehabilitation, Faculty of Health Sciences, Tohoku Fukushi University, Aoba-ku, Sendai, Miyagi 981-8522 and ²Nishi-Niigata Chuo National Hospital, 1-14-1 Masago, Nishi-ku, Niigata, Japan)

3. Phase-adjustment of human circadian rhythms by light and physical exercise, Yujiro Yamanaka² and Jim Waterhouse² (¹Laboratory of Life and Health Sciences, Hokkaido University, Graduate School of Education, Kita-ku, Sapporo, 060-0811, Japan and ²School of Sports Sciences, Liverpool John Moores University, Liverpool, UK)

<Short Review Articles>

4. Epidemiology of Frailty in Elderly Japanese, Atsumu Yuki¹, Rei Otsuka², Chikako Tange³, Yukiko Nishita², Makiko Tomida³, Fujiko Ando³ and Hiroshi Shimokata⁵ (¹Faculty of Education, Kochi University, Akebono, Kochi City, Kochi 780-8520, ²Section of...
5. Changes in cytosolic Ca\(^{2+}\) dynamics in the sarcoplasmic reticulum are associated with the pathology of Duchenne muscular dystrophy, Jun Tanihata and Shin’ichi Takeda (Department of Molecular Therapy, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Ogawa-higashi, Kodaira, Tokyo 187-8502, Japan)

6. Assessment of individual muscle hardness and stiffness using ultrasound elastography, Takayuki Inami and Yasuo Kawakami (Faculty of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192, Japan)

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<Review Articles>

1. System physiology of respiratory control in man, Tadayoshi Miyamoto (Graduate School of Health Sciences, Morinomiya University of Medical Sciences, Nanko-Kita, Suminoe-Ku, Osaka City, Osaka 559-0034, Japan)

2. The Exercise Pressor Reflex in Hypertension, Masaki Mizuno\(^{1,2}\), Jere H. Mitchell\(^2\), Scott A. Smith\(^{1,2}\) (\(^1\)Departments of Health Care Sciences and \(^2\)Internal Medicine, University of Texas Southwestern Medical Center, Dallas, Texas, USA)

3. Interlimb coordination from a psychological perspective, Tetsuro Muraoka\(^1\), Kento Nakagawa\(^{2,3}\), Kouki Kato\(^4\), Weihuang Qi\(^5\) and Kazuyuki Kanosue\(^4\) (\(^1\)College of Economics, Nihon University, Misakicho, Chiyodaku, Tokyo 101-8360, \(^2\)Graduate School of Arts and Sciences, The University of Tokyo, Meguroku, Tokyo 153-8902, \(^3\)Research Fellow of the Japan Society for the Promotion of Science, Chiyoda-ku, Tokyo 102-8472, \(^4\)Laboratory of Sport Neuroscience, Faculty of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192 and \(^5\)Graduate School of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192, Japan)

<Short Review Articles>

4. Possible neurophysiological mechanisms for mild-exercise-enhanced executive function: An fNIRS neuroimaging study, Kyeongho Byun, Kazuki Hyodo, Kazuya Suwabe, Takemune Fukuie and Hideaki Soya (Department of Sports Neuroscience,
Advanced Research Initiative for Human High Performance (ARIHHP), Faculty of Health and Sports Sciences, University of Tsukuba, Tennodai, Tsukuba, Ibaraki 305-8574, Japan)

5. Effects of low pH on the mechanical response of thin fiber muscle afferents that may be associated with exercise pressor reflex, Norio Hotta and Kazue Mizumura (College of Life and Health Sciences, Chubu University, Matsumoto-cho 1200, Kasugai 487-8501, Japan)

6. Experimental research models on skeletal muscle contraction, Yasuko Manabe (Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, Hachioji, Tokyo 192-0397, Japan)

7. Skeletal muscle oxygen dynamics and peak aerobic capacity, Shun Takagi (Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)