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The Journal of Physical Fitness and Sports Medicine (JPFMSM)

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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)

Volume Number	Year	Review	Short review	Total
Vol. 5 No. 1	2016	6	4	10
Vol. 5 No. 2	2016	6	2	8
Vol. 5 No. 3	2016	3	1	4
Vol. 5 No. 4	2016	3	3	6
Vol. 5 No. 5	2016	3	4	7
Total		21	14	35

◆JPFSM : Vol.5, No. 1 (March, 2016) : 10 papers

<Review Articles>

- 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 Tanisawa^{1,2,3}, Masashi Tanaka², Mitsuru Higuchi^{1,4}** (*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 Ema^{1,2}, 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 Kamiyo² 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 Nagashima^{2,3} 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)

◆JPFSM : Vol. 5, No. 2 (May, 2016) : 8 papers

<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 Sakakibara¹, Michiko Torii Yasuda² and Kayoko Shimoi²** (*¹Faculty of Agriculture, University of Miyazaki, Gakuen-kihanadai-nishi, Miyazaki 889-2192 and ²School 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 Sakamoto¹, Peter James Sinclair² and Hisashi Naito¹** (*¹Institute of Health and Sports Science & Medicine, Juntendo University, Inzai, Chiba 270-1695, Japan and ²Discipline 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, Shigeharu Numao** (*Kyoto Pharmaceutical University, Yamashina-ku, Kyoto 607-8414, Japan*)

◆ **JPFESM : Vol. 5, No. 3 (July, 2016) : 4 papers**

< [Review Articles](#) >

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**

(College of Pharmaceutical Sciences, Ritsumeikan University, Kusatsu, Shiga 525-8577, Japan)

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)

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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)

◆ **JPFSM : Vol. 5, No.4 (September, 2016) : 6 papers**

< [Review Articles](#) >

1. **Bone loss due to disuse and electrical muscle stimulation, Hiroyuki Tamaki¹, Kengo Yotani², Futoshi Ogita², Hikari Kirimto¹, 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 Sugawara², Koya Yamashiro¹, Daisuke Sato¹, Hikari Kirimoto¹, Hiroyuki Tamaki¹, Hiroshi Shirozu³ and Shigeki Kameyama³** (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 ³Nishi-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 Yamanaka¹ 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)

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4. **Epidemiology of Frailty in Elderly Japanese, Atsumu Yuki^{1,2}, Rei Otsuka², Chikako Tange², Yukiko Nishita², Makiko Tomida^{2,3}, Fujiko Ando^{2,4} and Hiroshi Shimokata^{2,5}** (¹Faculty of Education, Kochi University, Akebono, Kochi City, Kochi 780-8520, ²Section of

the NILS-LSA, National Center for Geriatrics and Gerontology, Morioka, Obu City, Aichi 474-8511, ³Japan Society for the Promotion of Science, Chiyoda, Tokyo 102-8472, ⁴Faculty of Health and Medical Sciences, Aichi Shukutoku University, Katahira, Nagakute City, Aichi 480-1197 and ⁵Graduate School of Nutritional Sciences, Nagoya University of Arts and Sciences, Iwasaki, Nisshin City, Aichi 470-0196, Japan)

5. **Changes in cytosolic Ca²⁺ 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)

◆JPFSM : Vol. 5, No. 5 (November, 2016) : 7 papers

<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. Mitchell², Scott A. Smith^{1,2}** (¹Departments of Health Care Sciences and ²Internal Medicine, University of Texas Southwestern Medical Center, Dallas, Texas, USA)
3. **Interlimb coordination from a psychological perspective, Tetsuro Muraoka¹, Kento Nakagawa^{2,3}, Kouki Kato⁴, Weihuang Qi⁵ and Kazuyuki Kanosue⁴** (¹College of Economics, Nihon University, Misakicho, Chiyodaku, Tokyo 101-8360, ²Graduate School of Arts and Sciences, The University of Tokyo, Meguroku, Tokyo 153-8902, ³Research Fellow of the Japan Society for the Promotion of Science, Chiyoda-ku, Tokyo 102-8472, ⁴Laboratory of Sport Neuroscience, Faculty of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192 and ⁵Graduate 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*)