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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 3 (No. 1 - No. 5, 2014)

Publication lists (Articles = 54 papers)

◆Invited review and short review article contents (2014)

Volume Number	Year	Review	Short review	Total
Vol. 3 No. 1	2014	12	3	15
Vol. 3 No. 2	2014	3	8	11
Vol. 3 No. 3	2014	9	3	12
Vol. 3 No. 4	2014	6	1	7
Vol. 3 No. 5	2014	4	5	9
Total		34	20	54

◆JPFMSM : Vol.3, No. 1 (March, 2014) : 15 papers

<Review Articles>

- 1. The effects of static stretching on passive properties of the muscle-tendon unit, Noriaki Ichihashi¹, Satoko Ibuki¹ and Masatoshi Nakamura^{1,2} (¹Human Health Sciences, Graduate**

School of Medicine, Kyoto University, Sakyo-ku, Kyoto 606-8507 and ² Japan Society for the Promotion of Science, Chiyoda-ku, Tokyo 102-8472, Japan)

2. **Cardiolocomotor phase synchronization during rhythmic exercise, Kyuichi Niizeki and Tadashi Saitoh** (*Department of Bio-Systems Engineering, Graduate School of Science and Engineering, Yamagata University, Yonezawa, Yamagata 992-8510, Japan*)
3. **Microglia and their regulatory mechanisms in the brain, Junya Tanaka** (*Department of Molecular and Cellular Physiology, Ehime University Graduate School of Medicine, Ehime 791-0295, Japan*)
4. **Noninvasive estimation of mixed venous oxygen content Katsuo Uchida** (*Department of Physical Therapy, Faculty of Health Sciences, Yamagata Prefectural University of Health Sciences, Yamagata City, Yamagata 990-2212, Japan*)
5. **Roles of resistance training for preventing frailty and metabolic syndromes in aged adults, Masahiko Yanagita and Yoko Shiotsu** (*Graduate School of Health and Sports Science, Doshisha University, Kyotanabe, Kyoto 610-0394, Japan*)
6. **Mechanisms of exercise- and training-induced fatty acid oxidation in skeletal muscle, Shinji Miura¹, Miki Tadaishi², Yasutomi Kamei³ and Osamu Ezaki⁴** (*¹Laboratory of Nutritional Biochemistry, Graduate School of Nutritional and Environmental Sciences, University of Shizuoka, Suruga-ku, Shizuoka 422-8526, ²Department of Food Function and Labeling, National Institute of Health and Nutrition, Shinjuku-ku, Tokyo 162-8636, ³Laboratory of Molecular Nutrition, Graduate School of Environmental and Life Science, Kyoto Prefectural University, Sakyo-ku, Kyoto 606-8522 and ⁴Department of Human Health and Design, Faculty of Human Life and Environmental Sciences, Showa Women's University, Setagaya-ku, Tokyo 154-8533, Japan*)
7. **Activation of 5'AMP-activated protein kinase in skeletal muscle by exercise and phytochemicals, Tatsuro Egawa¹⁻³, Satoshi Tsuda^{1,3}, Rieko Oshima¹, Katsumasa Goto² and Tatsuya Hayashi¹** (*¹Laboratory of Sports and Exercise Medicine, Graduate School of Human and Environmental Studies, Kyoto University, Sakyo-ku, Kyoto, 606-8501, ²Department of Physiology, Graduate School of Health Sciences, Toyohashi SOZO University, Toyohashi, Aichi, 440-8511 and ³Japan Society for the Promotion of Science, Chiyoda, Tokyo 102-8472, Japan*)
8. **Circadian rhythm and exercise, Shigenobu Shibata and Yu Tahara** (*Laboratory of Physiology and Pharmacology, School of Advanced Science and Engineering, Waseda University, Shinjuku-ku, Tokyo 162-8480, Japan*)

9. **Preparation and control of quick and fast movements: Neurophysiological and dynamical perspectives, Kazutoshi Kudo¹, Masaya Hirashima² and Akito Miura^{3,4}** (¹*Department of Life Sciences, Graduate School of Arts and Sciences, University of Tokyo, Meguro-ku, Tokyo 153-8902*, ²*Department of Physical and Health Education, Graduate School of Education, University of Tokyo, Bunkyo-ku, Tokyo 113-0033*, ³*Research Center of Health, Physical Fitness and Sports, Nagoya University, Chikusa-ku, Nagoya, Aichi 464-8601* and ⁴*Japan Society for the Promotion of Science, Chiyoda-ku, Tokyo 102-8472, Japan*)
10. **Intensity and amount of habitual physical activity for health: Special considerations in middle-aged and older Japanese adults, Makoto Ayabe¹ and Kojiro Ishii²** (¹*Faculty of Computer Science and Systems Engineering, Okayama Prefectural University, Soja, Okayama, 719-1197* and ²*Faculty of Health and Sports Science, Doshisha University, Kyotanabe, Kyoto 610-0394, Japan*)
11. **Regulation of cerebral blood flow during stimulus-induced brain activation: Instructions for the correct interpretation of fNIRS signals, Shota Hori^{1,2} and Akitoshi Seiyama¹** (¹*Division of Medical Devices for Diagnoses, Human Health Sciences Graduate School of Medicine, Kyoto University, Sakyo-ku, Kyoto 606-8507* and ²*Japan Society for the Promotion of Science, Chiyoda, Tokyo 102-8472, Japan*)
12. **Exercise therapy in diabetic patients, Kinsuke Tsuda^{1,3}, Yusuke Tsuda², Yuzo Sato² and Akihiko Ishihara¹** (¹*Graduate School of Human and Environmental Studies, Kyoto University, Sakyo-ku, Kyoto 606-8501*, ²*Graduate School of Psychological and Physical Science, Aichi Gakuin University, Nisshin, Aichi 470-0915* and ³*Department of Human Sciences, Tezukayama Gakuin University, Minami-ku, Sakai, Osaka 591-0113, Japan*)

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13. **The important role of the neuromuscular junction for maintaining muscle mass and strength, Shuuichi Mori, Katsuo Koshi and Kazuhiro Shigemoto** (*Department of Geriatric Medicine, Tokyo Metropolitan Institute of Gerontology, Itabashi-ku, Tokyo 173-0015, Japan*)
14. **Exercise-induced oxidative stress: a tool for “hormesis” and “adaptive response”, Katsuhiko Koyama** (*Graduate School of Education, University of Yamanashi, Kofu, Yamanashi, 400-8510, Japan*)
15. **An optimal protocol for dynamic stretching to improve explosive performance, Taichi Yamaguchi¹ and Kojiro Ishii²** (¹*Laboratory of Food Ecology and Sports Science, Department of Food Science and Human Wellness, College of Agriculture, Food and Environment Sciences,*

Rakuno Gakuen University, Ebetsu, Hokkaido 069-8501 and ²Faculty of Health and Sports Science, Doshisha University, Kyotanabe, Kyoto 610-0394, Japan)

◆ **JPFSM : Vol. 3, No. 2 (May, 2014) : 11 papers**

<**Review Articles**>

1. **Dog ownership, dog walking, and human physical activity: A review of the literature (tentative), Koichiro Oka¹, Ai Shibata¹, Kaori Ishii¹ and Hayley Christian²** (¹Faculty of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192, Japan and ²University of Western Australia)
2. **Neural correlates underlying the effects of aging on human episodic memories (tentative), Takashi Tsukiura** (Department of Cognitive and Behavioral Sciences, Graduate School of Human and Environmental Studies, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan)
3. **Relation between muscle/motor unit activity and fine motor performance (tentative), Yasuhide Yoshitake** (National Institute of Fitness and Sports in KANOYA, Kanoya City, Kagoshima 891-2393, Japan)

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4. **Roles of activating-type Siglecs on myeloid cell functions, Takashi Angata** (Institute of Biological Chemistry, Academia Sinica, Taipei 11529, Taiwan)
5. **Effects of lower-body plyometric training on athletic performance and muscle–tendon properties, Norihide Sugisaki^{1,2} and Sadao Kurokawa³** (¹Center for Environment, Health and Field Sciences, Chiba University, 6-2-1 Kashiwa, Chiba 277-0882, ²Waseda Institute for Sport Sciences, 2-579-15 Tokorozawa, Saitama 359-1192 and ³Center for Liberal Arts, Meiji Gakuin University, 1518 Yokohama, Kanagawa 244-8539, Japan)
6. **Ingenious function of skeletal muscle as a secretory organ: Its crucial role for cancer prevention, Wataru Aoi** (Laboratory of Health Science, Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Sakyo-ku, Kyoto 606-8522, Japan)
7. **Protection of the brain against heat damage, Mayumi Matsuda-Nakamura¹, Kei Nagashima¹⁻³** (¹Laboratory of Integrative Physiology (Body Temperature and Fluid Laboratory), Faculty of Human Sciences, Waseda University, Tokorozawa, Saitama 359-1192, ²Sports Sciences for the Promotion of Active Life, Waseda University, Tokorozawa, Saitama 359-1192 and ³Institute of Applied Brain Sciences, Waseda University, Tokorozawa, Saitama 359-1192, Japan)
8. **Physiological relevance of protein-glycosylation to the pathogenesis of diabetes,**

Kazuaki Ohtsubo¹ and Naoyuki Taniguchi² (¹*Department of Analytical Biochemistry, Faculty of Life Sciences, Kumamoto University, Kuhonji, Kumamoto 862-0976 and* ²*RIKEN Global Research Center, RIKEN-Max Planck Joint Research Center, Systems Glycobiology Research Group, Disease Glycomics Team, Mihogaoka, Ibaraki 567-0047, Japan*)

9. **Satellite cell heterogeneity and hierarchy in skeletal muscle, Yusuke Ono** (*Department of Stem Cell Biology, Atomic Bomb Disease Institute, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki 852-8523, Japan*)
10. **Functional roles of vision in physical exercise (tentative), Satoshi Shimegi** (*Graduate School of Medicine, Osaka University, Toyonaka City, Osaka 560-0043, Japan*)
11. **Influence of exercise and sports on bone metabolism (tentative), Naomi Omi** (*Faculty of Health and Sport Sciences, University of Tsukuba, Tsukuba, Ibaraki 305-8574, Japan*)

◆JPFSM : Vol. 3, No. 3 (July, 2014) : 12 papers

<Review Articles>

1. **Molecular and cellular mechanisms of fever, Kiyoshi Matsumura** (*Department of Bio-medical Engineering, Osaka Institute of Technology, Osaka, Osaka 535-8585, Japan*)
2. **Stair-climbing-descending exercise for health promotion (tentative), Tetsuo Takaishi¹ and Tatsuya Hayashi²** (¹*Graduate School of Natural Sciences, Nagoya City University, Mizuho-ku, Nagoya City, Aichi 467-8501 and* ²*Laboratory of Sports and Exercise Medicine, Graduate School of Human and Environmental Studies, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan*)
3. **Central mechanisms underlying antihypertensive effects of exercise training (tentative), Hidefumi Waki** (*Department of Physiology, Wakayama Medical University School of Medicine, Kimiidera, Wakayama 641-8509, Japan*)
4. **A systematic review of randomized trials on the effectiveness of computer-tailored education on physical activity (tentative), Yukio Yamaguchi** (*Faculty of Sport and Health Science, Fukuoka University, Jonan-ku, Fukuoka 814-0180, Japan*)
5. **Changes in corticospinal excitability with interlimb interactions (tentative), Toshiki Tazoe¹⁻³ and Tomoyoshi Komiyama⁴** (¹*Department of Rehabilitation for Movement Functions, Research Institute, National Rehabilitation Center for Persons with Disabilities, Saitama 359-8555, Japan,* ²*Japan Society for the Promotion of Science, Tokyo 102-8472, Japan,* ³*Systems Neuroscience Institute, University of Pittsburgh, Pennsylvania 15260, USA and* ⁴*Department of Health and Sport Sciences, Faculty of Education, Chiba University, Chiba 263-8522, Japan*)

6. **Carnitine metabolism in skeletal muscles (tentative)**, Yasuro Furuichi, Naoko Goto-Inoue and Nobuharu L. Fujii (*Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, Hachioji, Tokyo 192-0397, Japan*)
7. **Nonconsciousness in human motor behavior (tentative)**, Kuniyasu Imanaka (*Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, Hachioji, Tokyo 192-0397, Japan*)
8. **MUAP from surface electrode during voluntary muscle contraction**, Shigeru Morimoto (*Faculty of Education and Human Sciences, Yokohama National University, Kanagawa 240-8501, Japan*)
9. **Cerebellar contributions to adaptive control of posture and locomotion (tentative)**, Dai Yanagihara (*Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Meguro-ku, Tokyo 153-8902, Japan*)

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10. **The relationships between mechanical stress and bone metabolism (tentative)**, Kazuhiro Maeda, Mitsuru Saito and Kaishi Marumo (*Department of Orthopaedic Surgery, The Jikei University School of Medicine, Minato-ku, Tokyo 105-8471, Japan*)
11. **Disabled sports and physiological specificity in persons with spinal cord injury (tentative)**, Takeshi Nakamura¹, Ken Kouda¹, Yukihide Nishimura¹, Yusuke Sasaki¹, Yasunori Umemoto¹, Motohiko Banno¹, Takahiro Ogawa¹, Kazunari Furusawa² and Fumihiko Tajima¹ (*¹Department of Rehabilitation Medicine, Wakayama Medical University, Wakayama 641-8509 and ²Department of Rehabilitation Medicine, Kibikogen Rehabilitation Center, Okayama 716-1241, Japan*)
12. **Effectiveness of robotic-assisted locomotor training in neurological disorders (tentative)**, Kiyotaka Kamibayashi (*Faculty of Engineering, Information and Systems, University of Tsukuba, Tsukuba, Ibaraki 305-8573, Japan*)

◆JPFSM : Vol. 3, No.4 (September, 2014): 7 papers

[<Review Articles>](#)

1. **Bone and exercise (tentative)**, Masafumi Ohsako, Tsuyoshi Morita and Kaoru Fujikawa (*Toyo University, Asaka City, Saitama 351-8510, Japan*)
2. **Excitability changes in the ipsilateral primary motor cortex during a voluntary finger movemet: A recent trend in TMS study (tentative)**, Kazumasa Uehara¹ and Koza Funase² (*¹Japan Society for the Promotion of Science, Chiyoda-ku, Tokyo 102-8472 and*

²Human Motor Control Laboratory, Graduate School of Integrated Arts and Sciences, Hiroshima University, Higashihiroshima, Hiroshima 739-8521, Japan)

3. **The effects of shoe insole for prevention and treatment of lower extremity injuries (tentative), Yukio Urabe¹, Noriaki Maeda¹, Shigeyuki Kato² and Rieko Sasaki³** (¹Graduate School of Biomedical & Health Sciences, Hiroshima University, Minami-ku, Hiroshima 734-8552, ²Hiroshima International University, Higashihiroshima, Hiroshima 739-2695 and ³Niigata University of Rehabilitation, Murakami, Niigata 958-0053, Japan)
4. **Neural substrates for hand dexterity (tentative), Yukio Nishimura** (Department of Developmental Physiology, National Institute for Physiological Science, Myodaiji, Okazaki, Aichi 444-8585, Japan)
5. **Effect of physical exercise on human biological rhythms (tentative), Koh Mizuno** (Faculty of Child and Family Studies, Tohoku Fukushi University, Sendai, Miyagi 981-8522, Japan)
6. **Physical fitness for health (tentative), Susumu S. Sawada** (Department of Health Promotion and Exercise, National Institute of Health and Nutrition, Shinjuku, Tokyo 162-8636, Japan)

[<Short Review Articles>](#)

7. **Clinical definition and diagnostic criteria for sarcopenia (tentative), Jun Udaka¹, Norio Fukuda² and Keishi Marumo¹** (¹Department of Orthopaedic Surgery, The Jikei University School of Medicine, Minato-ku, Tokyo 105-8461 and ²Department of Cell Physiology, The Jikei University School of Medicine, Minato-ku, Tokyo 105-8461, Japan)

◆JPFSM : Vol. 3, No. 5 (November, 2014) : 9 papers

[<Review Articles>](#)

1. **Relationship between severe earthquake and blood pressure fluctuation (tentative), Yoshihiko Watanabe** (Tokyo Women's Medical University, Medical Center East, Arakawa-ku Tokyo 116-8567, Japan)
2. **Capillary regression and growth in skeletal muscle (tentative), Hidemi Fujino¹, Hiroyo Kondo², Fumiko Nagatomo³ and Akihiko Ishihara³** (¹Department of Rehabilitation Science, Kobe University Graduate School of Health Sciences, Kobe, Hyogo 654-0142, ²Department of Food Science and Nutrition, Nagoya Women's University, Nagoya, Aichi 467-8610 and ³Laboratory of Cell Biology and Life Science, Graduate School of Human and Environmental Studies, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan)
3. **Role of serotonergic system on thermoregulation in rats (tentative), Takayuki Ishiwata** (Department of Sport & Wellness, College of Community & Human Services, Rikkyo University,

Niiza City, Saitama 352-8558, Japan)

4. **Exercise and exocrine pancreas** (*tentative*), **Kumiko Minato and Yoko Shiroya** (*Wayo Women's University, Ichikawa, Chiba 272-8533, Japan*)

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5. **Exercise and glucose metabolism** (*tentative*), **Mayumi Takagi and Yasuko Manabe** (*Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, Hachioji, Tokyo 192-0397, Japan*)
6. **Development of fatigue resistance in skeletal muscle** (*tentative*), **Shinya Masuda, Hisashi Takakura, Hisashi Kato and Tetsuya Izawa** (*Faculty of Health and Sports Science, Doshisha University, Kyotanabe, Kyoto 610-0394, Japan*)
7. **Position sense in an arm-matching task** (*tentative*), **Masahiko Izumizaki** (*Department of Physiology, Showa University School of Medicine, Shinagawa-ku, Tokyo 142-8555, Japan*)
8. **Ectopic fat and insulin resistance** (*tentative*), **Yoshifumi Tamura** (*Department of Metabolism and Endocrinology, Sportology Center, Juntendo University Graduate School of Medicine, Bunkyo-ku, Tokyo 113-8421, Japan*)
9. **Voluntary exercise, blood pressure and cardiac function** (*tentative*), **Susumu Sakata¹, Akira Nakatani² and Hidefumi Waki³** (*¹Graduate School of Health Science, Kio University, Kitakatsuragi-gun, Nara 635-0832, ²Nara University of Education, Nara 630-8528 and ³Wakayama Medical University School of Medicine, Wakayama 641-8509, Japan*)