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Invited Review articles and Short review articles

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

Publication lists (Articles = 55 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	6	10	16
Vol. 3 No. 3	2014	6	3	9
Vol. 3 No. 4	2014	3	5	8
Vol. 3 No. 5	2014	4	3	7
Total		31	24	55

◆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”, Katsuhiro 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) : 16 papers**

<Review Articles>

- 1. Neural correlates of remembering false memories in young and older adults: a brief review of fMRI studies, Takashi Tsukiura** (*Department of Cognitive and Behavioral Sciences, Graduate School of Human and Environmental Studies, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan*)
- 2. Role of carnitine acetylation in skeletal muscle, Yasuro Furuichi¹, Naoko Goto-Inoue^{1,2} and Nobuharu L. Fujii¹** (*¹Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, Hachioji, Tokyo 193-0397 and ²Department of Cell Biology and Anatomy, Hamamatsu University School of Medicine, Hamamatsu, Shizuoka 431-3192, Japan*)
- 3. Role of the cerebellum in postural control, Dai Yanagihara** (*Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Meguro-ku, Tokyo 153-8902 and Core Research for Evolutional Science and Technology, Japan Science and Technology Corporation, Chiyoda-ku, Tokyo 102-0075, Japan*)
- 4. Health promotion with stair exercise, Tetsuo Takaishi¹, Kengo Ishihara², Norihiro Shima³ and Tatsuya Hayashi⁴** (*¹Graduate School of Natural Sciences, Nagoya City University, Mizuho-ku, Nagoya, Aichi 467-8501, ²Department of Human Nutrition, School of Life Studies, Sugiyama Jogakuen University, Chikusa-ku, Nagoya, Aichi 464-8662, ³School of Sport and Health Science, Tokai Gakuen University, Ukigai-cho, Miyoshi, Aichi 470-0207 and ⁴Graduate School of Human and Environmental Studies, Kyoto University, Yoshidanihonmatsu-cho, Sakyo-ku, Kyoto 606-8501, Japan*)
- 5. Interlimb neural interactions in the corticospinal pathways, Toshiki Tazoe¹⁻³ and Tomoyoshi Komiyama⁴** (*¹Department of Rehabilitation for Movement Functions, Research Institute, National Rehabilitation Center for Persons with Disabilities, Saitama 359-8555, Japan, ²Japan Society for the Promotion of Science, Tokyo 102-8472, Japan, ³Department of Physical Medicine and Rehabilitation, Center for the Neural Basis of Cognition, Systems Neuroscience Institute, University of Pittsburgh, Pittsburgh, PA 15261, USA and ⁴Department of Health and Sports Sciences, Faculty of Education, Chiba University, Chiba 263-8522, Japan*)
- 6. Wave form of motor unit action potential recorded by surface electrode during voluntary muscle contraction, Shigeru Morimoto¹ and Shigeru Takemori²** (*¹Faculty of*

Education and Human Sciences, Yokohama National University, Hodogayaku, Yokohama city, Kanagawa 240-8501 and ²Department of Molecular Physiology, The Jikei University School of Medicine, Minatoku, Tokyo 105-8461, Japan)

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7. **Roles of activating-type Siglecs on myeloid cell functions, Takashi Angata** (*Institute of Biological Chemistry, Academia Sinica, Taipei 11529, Taiwan*)
8. **Effects of lower-body plyometric training on athletic performance and muscle–tendon properties, Norihide Sugisaki^{1,2} and Sadao Kurokawa³** (¹*Center for Environment, Health and Field Sciences, Chiba University, 6-2-1 Kashiwa, Chiba 277-0882,* ²*Waseda Institute for Sport Sciences, 2-579-15 Tokorozawa, Saitama 359-1192 and* ³*Center for Liberal Arts, Meiji Gakuin University, 1518 Yokohama, Kanagawa 244-8539, Japan*)
9. **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*)
10. **Protection of the brain against heat damage, Mayumi Matsuda-Nakamura¹, Kei Nagashima¹⁻³** (¹*Laboratory of Integrative Physiology (Body Temperature and Fluid Laboratory), Faculty of Human Sciences, Waseda University, Tokorozawa, Saitama 359-1192,* ²*Sports Sciences for the Promotion of Active Life, Waseda University, Tokorozawa, Saitama 359-1192 and* ³*Institute of Applied Brain Sciences, Waseda University, Tokorozawa, Saitama 359-1192, Japan*)
11. **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*)
12. **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*)
13. **How a neuron perceives visual motion during self-motion, Satoshi Shimegi^{1,2}, Shogo Soma¹, Naofumi Suematsu², Ryo Mizuyama², Yasuto Tanaka³ and Hiroyuki Fujie⁴** (¹*Laboratory of Cognitive and Behavioral Neuroscience, Graduate School of Medicine, Osaka University, Toyonaka, Osaka 560-0043,* ²*Laboratory of Cognitive and Behavioral Neuroscience, Graduate School of Frontier Biosciences, Osaka University, Toyonaka, Osaka 560-0043,* ³*Neuro*

Mathematics Laboratory, Kobe, Hyogo 654-0075 and ⁴R & D Division, Paris Miki Incorporation, Himeji, Hyogo 672-8048 Japan)

14. **Influence of exercise and sports on bone, Naomi Omi** (*Faculty of Health and Sport Sciences, University of Tsukuba, Tsukuba, Ibaraki 305-8574, Japan*)
15. **Locomotor training using a wearable robot in patients with neurological disorders, Kiyotaka Kamibayashi** (*Faculty of Health and Sports Science, Doshisha University, Kyotanabe, Kyoto 610-0394, Japan*)
16. **Facilitatory effects and behavioral benefits of nonconscious perception on human motor actions, Kuniyasu Imanaka** (*Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, Hachioji, Tokyo 192-0397, Japan*)

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

<Review Articles>

1. **Relation between motor unit / muscle activity and fine motor performance, Yasuhide Yoshitake** (*Department of Sports and Life Sciences, National Institute of Fitness and Sports in Kanoya, Kanoya, Kagoshima 891-2393, Japan*)
2. **Association of dog ownership, dog walking with human physical activity, Koichiro Koichiro Oka¹, Ai Shibata² and Kaori Ishii¹** (*¹Faculty of Sport Sciences, Waseda University, Tokorozawa, Saitama 359-1192 and ²Faculty of Health and Sport Sciences, University of Tsukuba, Tsukuba, Ibaraki 305-8574, Japan*)
3. **Contribution of ipsilateral primary motor cortex activity to the execution of voluntary movements in humans: A review of recent studies, Kazumasa Uehara^{1,2} and Koza Funase¹** (*¹Human Motor Control Laboratory, Division of Human Sciences, Graduate School of Integrated Arts and Sciences, Hiroshima University, 1-7-1 Kagamiyama, Higashi-Hiroshima, 739-8521 and ²Japan Society for the Promotion of Science, 8 Ichiban-cho, Chiyoda-ku, Tokyo 102-8472, Japan*)
4. **Human circadian rhythms and exercise: significance and application in real-life situations, Koh Mizuno** (*Department of early childhood and primary education, Tohoku Fukushi University, Sendai, Miyagi 981-8522, Japan*)
5. **Central mechanisms underlying anti-hypertensive effects of exercise training, Hidefumi Waki¹, Miwa Takagishi² and Sabine S Gouraud³** (*¹Department of Physiology, Graduate School of Health and Sports Science, Juntendo University, Inzai-shi, Chiba 270-1695, ²Department of Therapeutic Health Promotion, Kansai University of Health Sciences, Sen-nan-gun, Osaka 590-0482 and ³Department of Physiology, Wakayama Medical University*)

School of Medicine, Kimiidera, Wakayama 641-8509, Japan)

6. **Characteristics of bone structural changes by growth and mechanical stress in growing rats, Masafumi Ohsako¹, Tsuyoshi Morita², Satoshi Inoue³ and Masato Takahashi⁴** (¹*Department of Health Care and Sports, Faculty of Human Life Design, Toyo University, Asaka-shi, Saitama 351-8510,* ²*Department of Maxillofacial Anatomy, Graduate School of Tokyo Medical and Dental University, Bunkyo-ku, Tokyo 113-8510,* ³*Department of Oral Anatomy and Developmental Biology, Graduate School of Showa University, Shinagawa-ku, Tokyo 142-0064 and* ⁴*Course of Human Centered Life Design, Graduate School of Toyo University, Asaka-shi, Saitama 351-8510, Japan)*

<Short Review Articles>

7. **Disabled sports and physiological specificity in persons with spinal cord injury, Takeshi Nakamura¹, Kazunari Furusawa², Ken Kouda¹, Yukihide Nishimura¹, Yusuke Sasaki¹, Yasunori Umemoto¹, Motohiko Banno¹, Takahiro Ogawa¹, Takashi Kawasaki¹, Tomoyuki Ito³, Toshihito Mitsui³ and Fumihiro Tajima^{1,3}** (¹*Department of Rehabilitation Medicine, Wakayama Medical University, Wakayama 641-8509,* ²*Department of Rehabilitation Medicine, Kibikogen Rehabilitation Center, Kagagun, Okayama 716-1241 and* ³*Research Center of Health Promotion, Sports Science and Environmental Physiology, Wakayama Medical University, Wakayama 640-8033, Japan)*
8. **Wnt signals and bone metabolism, Kazuhiro Maeda, Mitsuru Saito and Kaishi Marumo** (*Department of Orthopedic Surgery, The Jikei University School of Medicine, Minato-ku, Tokyo 105-8461, Japan)*
9. **Clinical definition and diagnostic criteria for sarcopenia, Jun Udaka¹, Norio Fukuda², Hideki Yamauchi³ and Keishi Marumo¹** (¹*Department of Orthopaedic Surgery, The Jikei University School of Medicine, Minato-ku, Tokyo 105-8461,* ²*Department of Cell Physiology, The Jikei University School of Medicine, Minato-ku, Tokyo 105-8461 and* ³*Division of Physical Fitness, Department of Molecular Physiology, Jikei University School of Medicine, Minato-ku, Tokyo 105-8461, Japan)*

◆JPFSM : Vol. 3, No.4 (September, 2014): 8 papers

<Review Articles>

1. **Physical Fitness for Health, Susumu S. Sawada** (*Department of Health Promotion and Exercise, National Institute of Health and Nutrition, Shinjuku-ku, Tokyo 162-8636, Japan)*
2. **The effects of shoe insole for prevention and treatment of lower extremity injuries, Yukio Urabe¹, Noriaki Maeda¹, Shigeyuki Kato², Hiroshi Shinohara³ and Junpei**

Sasadai¹ (¹Graduate School of Biomedical & Health Sciences, Hiroshima University, Minami-ku, Hiroshima 734-8553, ²Hiroshima International University, Hiroshima Higashihiroshima City, Hiroshima 739-2695 and ³Southern Clinic Orthopedics and Internal Medicine, Hiroshima Naka-ku, Hiroshima 730-0833, Japan)

3. **Regulatory mechanisms of intestinal iron absorption: iron-deficient mucosal cells respond immediately to dietary iron concentration, Shoko Shinoda¹ and Anna Arita²** (¹ Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, Hachioji, Tokyo 192-0397 and ² Department of Food and Nutrition, Jumonji University, Niiza, Saitama 352-8510, Japan)

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4. **Mechanisms underlying alterations in glucose metabolism due to exercise, Mayumi Takagi and Yasuko Manabe** (Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, Hachioji, Tokyo 192-0397, Japan)
5. **Possible mechanisms underlying wheel-running-induced hypotensive effects, 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 ³Graduate School of Health and Sports Science, Juntendo University, Inzai, Chiba 270-1695, Japan)
6. **Age-induced muscle atrophy and increase in fatigue resistance, Shinya Masuda¹, Hisashi Takakura², Hisashi Kato³ and Tetsuya Izawa³** (¹Department of Stem Cell Biology, Atomic Bomb Disease Institute, Nagasaki University, Sakamoto, Nagasaki 852-8523, ²Faculty of Health and Sports Science, Doshisha University, Kyotanabe, Kyoto 610-0321 and ³Graduate School of Health and Sports Science, Doshisha University, Kyotanabe, Kyoto 610-0321, Japan)
7. **Pulmonary function and respiratory responses during exercise in children, Takeshi Ogawa and Yasushi Ikuta** (Department of Physical Education, Osaka Kyoiku University, Kashiwara, Osaka 582-8582, Japan)
8. **Role of the serotonergic system in thermoregulation in rats, Takayuki Ishiwata** (Department of Sport & Wellness, College of Community & Human Services, Rikkyo University Niiza City, Saitama 352-8558, Japan)

◆[JPFSM : Vol. 3, No. 5 \(November, 2014\) : 7 papers](#)

<[Review Articles](#)>

1. **Relative age effects in Japanese athletes, Hiroki Nakata¹ and Kiwako Sakamoto²** (¹Department of Health Sciences, Faculty of Human Life and Environment, Nara Women's

University, Kitauoya-Nishi Machi, Nara 630-8506 and ²Department of Integrative Physiology, National Institute for Physiological Sciences, Okazaki, Aichi 444-8585, Japan)

2. **Proprioceptive information coded by populational sensory afferents, Tatsuya Umeda^{1,2}, Tadashi Isa^{2,3}, Yukio Nishimura^{2,3,4}** (¹Department of Neurophysiology, National Institute of Neuroscience (NIN), National Center for Neurology and Psychiatry (NINP), Kodaira, Tokyo 187-8502, ²Department of Developmental Physiology, National Institute for Physiological Sciences (NIPS), National Institutes of Natural Sciences (NINS), Okazaki, Aichi 444-8585, ³School of Life Science, the Graduate University for Advanced Studies (SOKENDAI), Shonan Village, Hayama, Kanagawa 240-0193 and ⁴PRESTO, Japan Science and Technology Agency (JST), Kawaguchi, Sitama, Japan)
3. **Capillary growth and regression in skeletal muscle, Hidemi Fujino¹, Hiroyo Kondo², Fumiko Nagatomo³ and Akihiko Ishihara³** (¹Department of Rehabilitation Science, Kobe University Graduate School of Health Sciences, Suma-Ku, Kobe 654-0142, ²Department of Food Science and Nutrition, Nagoya Women's University, Mizuho-ku, Nagoya-shi, 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)
4. **Computer-tailored interventions for promoting physical activity and healthy eating: A systematic review of the literature, Yukio Yamaguchi and Hisashi Mitsuishi** (Faculty of Sport and Health Science, Fukuoka University, 8-19-1 Nanakuma, Jonan-ku, Fukuoka 814-0180, Japan)

<Short Review Articles>

5. **Intracellular lipid accumulation and insulin sensitivity in muscle and liver: Fighting against “intracellular obesity”, Yoshifumi Tamura^{1,2}, Saori Kakehi^{1,2}, Kageumi Takeno¹** (¹Department of Metabolism & Endocrinology, ²Sportology Center, Juntendo University Graduate School of Medicine, Bunkyo-ku, Tokyo 113-8421, Japan)
6. **Earthquake and ambulatory blood pressure monitoring, Yoshihiko Watanabe¹, Franz Halberg², Tomoko Kikuchi¹, Tetsuya Mitsuhashi¹, Kuniaki Otsuka¹, Hiroshi Sakura¹, Gerimaine Cornallisen²** (¹Department of Medicine, Tokyo Women's Medical University Medical Center East, Arakawa-Ku, Tokyo, 116-8567, Japan and ²Halberg Chronobiology Center, University of Minnesota Mayo Building, Minneapolis, MN 55455, USA)
7. **Position sense at the human forearm, Uwe Proske¹ and Masahiko Izumizaki²** (¹Department of Physiology, Monash University, Clayton, Vic, 3800, Australia and ²Department of Physiology, Showa University School of Medicine, Shinagwa-ku, Tokyo 142-8555, Japan)