October 4, 2013

The Journal of Physical Fitness and Sports Medicine (JPFSM)

EDITORIAL BOARD

Invited Review articles and Short review articles

Volume 1 (No. 1-4, 2012) and Volume 2 (No. 1-4, 2013)

Publication lists (Articles = 140 papers < 2012 : 79 and 2013 : 61 papers>)

◆Invited review and short review article contents (2012~2013)

Volume	Number	(Year)	Review	Short review	Total
Vol. 1,	No. 1	(2012)	13	7	20
Vol. 1,	No. 2	(2012)	15	5	20
Vol. 1,	No. 3	(2012)	18	5	23
Vol. 1,	No. 4	(2012)	13 (n=59)	3 (n=20)	16 (n=79)
Vol. 2,	No. 1	(2013)	11	4	15
Vol. 2,	No. 2	(2013)	10	5	15
Vol. 2,	No. 3	(2013)	9	7	16
Vol. 2,	No. 4	(2013)	9 (n=39)	6 (n=22)	15 (n=61)
Total			98	42	140

◆JPFSM : *Vol.1, No. 1 (May, 2012)* : 20 papers

<*Review Articles*>

1. **Effect of exercise on HIF-1 and VEGF signaling,** **Hideki Ohno[1], Ken Shirato[2], Takuya Sakurai[1], Junetsu Ogasawara[1], Yoshikazu Sumitani[1,3], Shogo Sato[1,2], Kazuhiko Imaizumi[2], Hitoshi Ishida[3] and Takako Kizaki[1]** *([1]Department of Molecular Predictive Medicine and Sport Science, Kyorin University, School of Medicine, Mitaka, Tokyo 181-8611, [2]Laboratory of Physiological Sciences, Faculty of Human Sciences, Waseda University, Tokorozawa, Saitama 359-1192 and [3]Third Department of Internal Medicine, Kyorin University, School of Medicine, Mitaka, Tokyo 181-8611, Japan)*
2. **Lifestyle-related disease and skeletal muscle: A review,** **Akihiko Ishihara[1], Fumiko Nagatomo[1], Hidemi Fujino[2], Hiroyo Kondo[3] and Kinsuke Tsuda[4]** *([1]Laboratory of Cell Biology and Life Science, Graduate School of Human and Environmental Studies, Kyoto University, Kyoto 606-8501, [2]Department of Rehabilitation Science, Kobe University Graduate School of Health Sciences, Kobe 654-0142, [3]Department of Food Sciences and Nutrition, Nagoya Women's University, Nagoya 467-8610 and [4]Laboratory of Metabolism, Graduate School of Human and Environmental Studies, Kyoto University, Kyoto 606-8501, Japan)*
3. **Regulation of soleus muscle properties by mechanical stress and/or neural activity,** **Fuminori Kawano, Naoya Nakai and Yoshinobu Ohira** *(Graduate School of Medicine, Osaka University, 1-17 Machikaneyama-cho, Toyonaka City, Osaka 560-0043, Japan)*
4. **Reflex modulation during rhythmic limb movements in humans,** **Tomoyoshi Komiyama[1,2] and Tsuyoshi Nakajima[3]** *([1]Department of Health and Sports Sciences, Faculty of Education, Chiba University, Chiba 263-8522, [2]Division of Health and Sport Education, The United Graduate School of Education, Tokyo Gakugei University, Tokyo 184-8501 and [3]Department of Integrative Physiology, Kyorin University, School of Medicine, Tokyo 181-8611, Japan)*
5. **Myokines: Do they really exist?,** **Yasuko Manabe, Shouta Miyatake and Mayumi Takagi** *(Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, 1-1 Minami-Osawa, Hachioji 192-0397, Japan)*
6. **Metabolic Sensor for Low Intensity Exercise: Insights from AMPKα1 Activation in Skeletal Muscle,** **Taro Toyoda[1], Tatsuro Egawa[2] and Tatsuya Hayashi[2]** *([1]Department of Cell Growth and Differentiation, Center for iPS Cell Research and Application, Kyoto University, 53 Kawahara-cho, Shogoin Yoshida, Sakyo-ku, Kyoto 606-8507 and [2]Laboratory of Sports and Exercise Medicine, Graduate School of Human and Environmental Studies, Kyoto University, Yoshida-nihonmatsu-cho, Sakyo-ku, Kyoto 606-8501, Japan)*

7. **Exercise training based on individual physical fitness and interval walking training to prevent lifestyle-related diseases in middle-aged and older people,** **Hiroshi Nose[1,2], Mayuko Morikawa[1,2], Shizue Masuki[1], Ken Miyagawa[1,2], Yoshi-ichiro Kamijo[1] and Hirokazu Gen-no[2]** *([1]Department of Sports Medical Sciences, Division of Bioregulational Medicine, Institute of Pathogenesis and Disease Prevention, Shinshu University Graduate School of Medicine, 3-1-1 Asahi, Matsumoto 390-8621, and [2]Jukunen Taiikudaigaku Research Center, 3-1-1 Asahi, Matsumoto 390-8621, Japan)*

8. **Exercise and thermoregulation,** **Kei Nagashima[1-4], Ken Tokizawa[1,2], Yuki Uchida[1], Mayumi Nakamura-Matsuda[1] and Chen-Hsien Lin[1,2]** *([1]Laboratory of Integrative Physiology (Body Temperature and Fluid Laboratory), Faculty of Human Sciences, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [2]Sports Sciences for the Promotion of Active Life, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [3]Institute of Applied Brain Sciences, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, and [4]Advanced Research Center for Human Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*

9. **Roles played by protein metabolism and myogenic progenitor cells in exercise-induced muscle hypertrophy and their relation to resistance training regimens,** **Naokata Ishii[1,2], Riki Ogasawara[2], Koji Kobayashi[3] and Koichi Nakazato[3]** *([1]Department of Life Science, Graduate School of Arts and Sciences, The University of Tokyo, Komaba, Tokyo 153-8902, [2]Department of Environmental Sciences, Graduate School of Frontier Sciences, The University of Tokyo, Kashiwa, Chiba 227-8653, and [3]Graduate School of Health and Sport Sciences, Nippon Sport Science University, Fukazawa, Tokyo 153-8850, Japan)*

10. **Structure and function of skeletal muscle and locomotive systems: Involvement of water-state transitions,** **Shigeru Takemori[1] and Masako Kimura[1,2]** *([1]Department of Molecular Physiology, The Jikei University School of Medicine, Tokyo 105-8461, and [2]Department of Radiology, Tokyo Dental College Ichikawa General Hospital, Chiba 272-8513, Japan)*

11. **Motor imagery and sport performance,** **Nobuaki Mizuguchi[1,2], Hiroki Nakata[3], Yusuke Uchida[3] and Kazuyuki Kanosue[3]** *([1]Laboratory of Sport Neuroscience, Graduate School of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [2]Research Fellow of the Japan Society for the Promotion of Science, 8 Ichiban-cho, Chiyoda-ku, Tokyo 102-8472, and [3]Laboratory of Sport Neuroscience, Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*

12. **The effects of exercise on macrophage function,** **Takako Kizaki[1], Shogo Sato[1], Takuya**

Shirato[1], Takako Kizaki[2], Hideki Ohno[2] and Kazuhiko Imaizumi[1] *([1]Laboratory of Physiological Sciences, Faculty of Human Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, and [2]Department of Molecular Predictive Medicine and Sport Science, Kyorin University, School of Medicine, 6-20-2 Shinkawa, Mitaka, Tokyo 181-8611, Japan)*

17. **Skeletal muscle regeneration and muscle progenitor cells, Norio Motohashi[1], Matthew S. Alexander[1,4] and Louis M. Kunkel[1-4]** *([1]Program in Genomics, Department of Pediatrics, Children's Hospital Boston, Boston, Massachusetts 02115, [2]Department of Genetics, Harvard Medical School, Boston, Massachusetts 02115, [3]The Manton Center for Orphan Disease Research, Children's Hospital Boston, Boston, Massachusetts 02115 and [4]Harvard Stem Cell Institute, Cambridge, Massachusetts 02138, USA)*
18. **Warm-up procedures to enhance dynamic muscular performance, Naokazu Miyamoto** *(Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*
19. **The role of autophagy in skeletal muscle homeostasis, Tomonori Ogata** *(Faculty of Human Environmental Studies, Hiroshima Shudo University, 1-1-1 Ozuka-Higashi, Asaminami-ku, Hiroshima 731-3195, Japan)*
20. **Regulatory mechanisms involved in blunting protein synthesis in working skeletal muscle, Taro Murakami** *(Department of Nutrition, Shigakkan University, 55 Nadakayama, Yokone-Machi, Ohbu 474-8651, Japan)*

◆JPFSM : *Vol. 1, No. 2 (July, 2012)* : 20 papers

<Review Articles>

1. **Some aspects of heat stress on the plasticity of skeletal muscle cells, Katsumasa Goto[1,2], Yoshitaka Ohno[2], Ayumi Goto[1], Akihiro Ikuta[1], Miho Suzuki[1], Tomotaka Ohira[1], Noriko Tsuchiya[3], Sono Nishizawa[4], Tomoyuki Koya[4], Tatsuro Egawa[1,5], Takao Sugiura[6], Yoshinobu Ohira[7] and Toshitada Yoshioka[8]** *([1]Department of Physiology, Graduate School of Health Sciences, Toyohashi SOZO University, 2-16-1 Matsushita, Ushikawa, Toyohashi, Aichi 440-8511, [2]Laboratory of Physiology, School of Health Sciences, Toyohashi SOZO University, 2-16-1 Matsushita, Ushikawa, Toyohashi, Aichi 440-8511, [3]Department of Public Health Nursing, Graduate School of Health Sciences, Toyohashi SOZO University, 2-16-1 Matsushita, Ushikawa, Toyohashi, Aichi 440-8511, [4]Department of Orthopaedic Surgery, St. Marianna University School of Medicine, 2-16-1 Sugao, Miyamae, Kawasaki, Kanagawa 216-8511, [5]Japan Society for the Promotion of Science, 1-8 Ichiban-cho, Chiyoda, Tokyo*

102-8472, [6]Department of Exercise and Health Sciences, Yamaguchi University, 1677-1 Yoshida, Yamaguchi 753-8513, [7]Graduate School of Medicine, Osaka University, 1-17 Machikaneyama, Toyonaka, Osaka 560-0043, and [8]Hirosaki Gakuin University, 13-1 Minori, Hirosaki, Aomori 036-8577, Japan)

2. **Arterial stiffness and lifestyle modification, Asako Miyaki[1] and Seiji Maeda[2]** *([1]Graduate School of Comprehensive Human Sciences, University of Tsukuba, Tsukuba, Ibaraki 305-8577, and [2]Faculty of Health and Sport Sciences, University of Tsukuba, Tsukuba, Ibaraki 305-8574, Japan)*
3. **Association of exercise with appetite and energy intake through endocrine mechanism, Takahiro Yoshikawa and Shigeo Fujimoto** *(Department of Sports Medicine, Osaka City University Graduate School of Medicine, 1-4-3, Asahi-machi, Abeno-ku, Osaka 545-8585, Japan)*
4. **Effects of protein and amino acid supplementation on muscle protein metabolism in relation to exercise, Yoshiharu Shimomura, Yasuyuki Kitaura and Noriko Shimomura** *(Laboratory of Nutritional Biochemistry, Department of Applied Molecular Biosciences Graduate School of Bioagricultural Sciences, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Aichi 464-8601, Japan)*
5. **Rowing as an aerobic and resistance exercise for elderly people, Meiko Asaka, Hiroshi Kawano and Mitsuru Higuchi** *(Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*
6. **Neural regulation of respiration during exercise -Beyond the conventional central command and afferent feedback mechanisms-, Koji Ishida[1] and Miharu Miyamura[2]** *([1]Research Center of Health, Physical Fitness and Sports, Nagoya University, E5-2(130), Fro-cho, Chikusa-ku, Nagoya 464-8601 and [2]Faculty of Human Science, Kanazawa Seiryo University, Gosho-Machi, Kanazawa 920-8620, Japan)*
7. **Monocarboxylate transporter and lactate metabolism, Yu Kitaoka, Daisuke Hoshino and Hideo Hatta** *(Department of Sports Sciences, The University of Tokyo, 3-8-1 Komaba, Meguro-ku, Tokyo 153-8902, Japan)*
8. **Central mechanisms of cardiovascular regulation during exercise: Integrative functions of the nucleus of the solitary tract, Hidefumi Waki** *(Department of Physiology, Wakayama Medical University School of Medicine, 811-1 Kimiidera, Wakayama 641-8509, Japan)*
9. **Neural control of human gait and posture, Kimitaka Nakazawa, Hiroki Obata and**

16. **Exercise training and the promotion of neurogenesis and neurite outgrowth in the hippocampus,** **Takuya Sakurai[1], Junetsu Ogasawara[1], Takako Kizaki[1], Yoshinaga Ishibashi[1], Tomonori Fujiwara[2], Kimio Akagawa[2], Tetsuya Izawa[3], Zsolt Radák[4] and Hideki Ohno[1]** *([1]Department of Molecular Predictive Medicine and Sport Science, Kyorin University, School of Medicine, Mitaka, Tokyo 181-8611, Japan, [2]Department of Cell Physiology, Kyorin University, School of Medicine, Mitaka, Tokyo 181-8611, Japan, [3]Faculty of Health and Sport Science, Doshisha University, Kyotanabe, Kyoto 610-0394, Japan and [4]Research Institute of Sport Science, Faculty of Physical Education and Sport Science, Semmelweis University, Budapest, Hungary)*
17. **Body composition of Japanese children,** **Taishi Midorikawa** *(College of Health and Welfare, J.F. Oberlin University, 3758 Tokiwamachi, Machida, Tokyo 194-0294, Japan)*
18. **Mechanisms of heat acclimation and tolerance induced by exercise training and heat exposure,** **Ken Tokizawa[1,2], Cheng-Hsien Lin[2] and Kei Nagashima[2-4]** *([1]Faculty of Sport Sciences,Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [2]Sports Sciences for the Promotion of Active Life, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [3]Laboratory of Integrative Physiology (Body Temperature and Fluid Laboratory), Faculty of Human Sciences, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192 and [4]Institute of Applied Brain Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*
19. **Visualization of metabolite change in skeletal muscle by contraction using imaging mass spectrometry,** **Naoko Goto-Inoue[1,2], Mitsutoshi Setou[2] and Nobuharu L. Fujii[1]** *([1]Department of Health Promotion Sciences, Graduate School of Human Health Sciences, Tokyo Metropolitan University, 1-1 Minami-Osawa, Hachioji, Tokyo 192-0397 and [2]Department of Cell Biology and Anatomy, Hamamatsu University School of Medicine, 1-20-1 Handayama, Higashi-ku, Hamamatsu, Shizuoka 431-3192, Japan)*
20. **Effect of physical exercise on lipolysis in white adipocytes,** **Junetsu Ogasawara[1], Takuya Sakurai[1], Takako Kizaki[1], Kazuto Takahashi[2], Hitoshi Ishida[2], Tetsuya Izawa[3], Koji Toshinai[4], Norihiko Nakano[5] and Hideki Ohno[1]** *([1]Department of Molecular Predictive Medicine and Sport Science, Kyorin University, School of Medicine,6-20-2 Shinkawa, Mitaka, Tokyo 181-8611, [2]Third Department of Internal Medicine, Kyorin University, School of Medicine,6-20-2 Shinkawa, Mitaka, Tokyo 181-8611, [3]Department of Sports Biochemistry, Faculty of Health and Sports Science, Doshisha University, Tataramiyakodani, Kyotanabe, Kyoto 610-0394, [4]Neurology, Respirology, Endocrinology, and Metabolism, Division of Internal*

Medicine, Faculty of Medicine, University of Miyazaki, 5200 Kihara, Kiyotake, Miyazaki 889-1692 and [5]Aino Institute of Regeneration and Rehabilitation, Aino University, 4-5-4 Higashiohara, Ibaraki, Osaka 567-0012, Japan)

◆JPFSM : *Vol. 1, No. 3 (September, 2012)* : 23 papers

<*Review Articles*>

1. **Mental processes and breathing during exercise, Takahiro Yunoki** *(Department of Human Developmental Sciences, Faculty of Education, Hokkaido University, Kita-11, Nishi-7, Kita-ku, Sapporo 060-0811, Japan)*
2. **Behavioral neuroscience of emotion and exercise, Ichiro Kita** *(Department of Human Health Science, Tokyo Metropolitan University, 1-1 Minamiohsawa, Hachioji, Tokyo 192-0397, Japan)*
3. **Cognitive neuroscience of motor learning and motor control, Hiroaki Masaki[1] and Werner Sommer[2]** *([1]Faculty of Sport Sciences, Waseda University, 2-579-15, Mikajima, Tokorozawa, Saitama 359-1192, Japan and [2]Institute for Psychology, Humboldt-University of Berlin, Rudower Chaussee 18, 12489 Berlin, Germany)*
4. **Recent advances in the adaptations of adipose tissue to physical activity: Morphology and adipose tissue cellularity, Tetsuya Izawa[1], Jun-etsu Ogasawara[2], Takuya Sakurai[2], Sachiko Nomura[3], Takako Kizaki[2] and Hideki Ohno[2]** *([1]Graduate School of Health and Sports Science, Doshisha University, Tatara-miyakodani, Kyotanabe, Kyoto 610-0394, [2]Department of Molecular Predictive Medicine and Sport Science, Kyorin University, School of Medicine, 6-20-2 Shinkawa, Mitaka, Tokyo 181-8611 and [3]Department of Neuroscience, Osaka City University Graduate School of Medicine, Osaka, Osaka 545-8585, Japan)*
5. **Variable factors of total daily energy expenditure in humans, Kazunori Ohkawara[1,2], Yuki Hikihara[2,3], Tomoaki Matsuo[4], Edward L. Melanson[5] and Masanobu Hibi[6]** *([1]Faculty of Informatics and Engineering, University of Electro-Communications, 1-5-1 Chofugaoka, Chofu, Tokyo 182-8585, Japan, [2]Department of Nutritional Science, National Institute of Health and Nutrition, 1-23-1 Toyama, Shinjuku-ku, Tokyo 162-8636, Japan, [3]Faculty of Engineering, Chiba Institute of Technology, 2-1-1 Shibazono, Narashino, Chiba 275-0023, Japan, [4]Flight Crew Operations and Technology Department, Japan Aerospace Exploration Agency (JAXA), 2-1-1, Sengen, Tsukuba, Ibaraki 305-8505, Japan, [5]Division of Endocrinology, Metabolism, and Diabetes/Division of Geriatric Medicine, University of Colorado Anschutz Medical Campus, 12801 East 17th Ave, RC1 South RM 7103, Aurora, CO 80045, USA and [6]Health Care Food Research Laboratories, Kao Corporation, 2-1-3, Bunka, Sumida-ku, Tokyo*

131-8501, Japan)

6. **Recent research developments in regeneration of skeletal muscle, Kunihiro Sakuma[1] and Akihiko Yamaguchi[2]** *([1]Research Center for Physical Fitness, Sports and Health, Toyohashi University of Technology, 1-1 Hibarigaoka, Tenpaku-cho, Toyohashi, Aichi 441-8580 and [2]School of Dentistry, Health Sciences University of Hokkaido, Kanazawa, Ishikari-Tobetsu, Hokkaido 061-0293, Japan)*
7. **Transporter-centric view of urate metabolism: From genome-wide association study to pathophysiology, Hiroyuki Sakurai** *(Department of Pharmacology & Toxicology, Kyorin University School of Medicine, 6-20-2 Shinkawa, Mitaka, Tokyo 181-8611, Japan)*
8. **Multipotency and physiological role of skeletal muscle interstitium-derived stem cells, Tetsuro Tamaki** *(Muscle Physiology & Cell Biology Unit, Department of Regenerative Medicine, Division of Basic Clinical Science, Tokai University School of Medicine, 143-Shimokasuya, Isehara, Kanagawa 259-1143, Japan)*
9. **Cardiovascular regulation during exercise – Contribution of peripheral reflexes, Masashi Ichinose[1], Kazuhito Watanabe[2], Naoto Fujii[2,3] and Takeshi Nishiyasu[2]** *([1]Human Integrative Physiology Laboratory, School of Business Administration, Meiji University, 1-9-1 Eifuku, Suginami-ku, Tokyo, 168-8555, [2]Institute of Health and Sport Sciences, University of Tsukuba, 1-1-1 Tennoudai, Tsukuba, Ibaraki, 305-8574 and [3]Faculty of Human Development, Kobe University, 3-11 Tsurukabuto, Nada-ku, Kobe 657-8501, Japan)*
10. **Effects of the "live high-train high" and "live high-train low" protocols on physiological adaptations and athletic performance, Isao Muraoka and Yuko Gando** *(Department of Exercise Physiology, Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*
11. **Exercise, diet, and weight loss, Kiyoji Tanaka[1], Ryosuke Shigematsu[2], Tim Henwood[3] and Hiroyuki Sasai[4]** *([1]Faculty of Health and Sport Sciences, University of Tsukuba, 1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8577, Japan, [2]Faculty of Education, Mie University, 1577 Kurimamachiya, Tsu, Mie 514-8507, Japan, [3]University of Queensland/Blue Care Research and Practice Developement Centre, University of Queensland, 56 Sylvan Rd, Toowong QLD, Brisbane 4066 Australia and [4]Diabetes, Endocrinology, and Obesity Branch, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, 9000 Rockville Pike, Bethesda, Maryland 20892, USA)*
12. **Measures of physical activity and exercise for health promotion by the Ministry of Health, Labour and Welfare, Motohiko Miyachi** *(Department of Health Promotion and*

Exercise, National Institute of Health and Nutrition, 1-23-1 Toyama, Shinjuku, Tokyo 162-8636, Japan)

13. **Skeletal muscle fiber plasticity: Heat shock proteins and satellite cell activation, Yasuharu Oishi[1] and Tomonori Ogata[2]** *([1]Laboratory of Muscle Physiology, Kumamoto University, 2-40-1 Kurokami, Chuo-ku, Kumamoto 860-8555 and [2]Faculty of Human Environmental Studies, Hiroshima Shudo University, 1-1-1 Ozuka-Higashi, Asaminami-ku, Hiroshima 731-3195, Japan)*
14. **Modification of thermoregulatory response to heat stress by body fluid regulation, Akira Takamata** *(Department of Environmental Health, Nara Women's University, Kitauoya Nishimachi, Nara 630-8506, Japan)*
15. **Status of physical activity in the Japanese population, Shigeho Tanaka** *(Department of Nutritional Science, National Institute of Health and Nutrition, 1-23-1 Toyama, Shinjuku-ku, Tokyo 162-8636, Japan)*
16. **Exercise prescription for fat metabolism disorder – From the viewpoint of fat oxidation rate, Shizuo Sakamoto[1], Masayuki Konishi[1], Hyeon Ki Kim[1], Naoya Endoh[1], Masaki Takahashi[1], Syun Takagi[2] and Taishi Midorikawa[3]** *([1]Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [2]Department of Sports Medicine for Health Promotion, Tokyo Medical University, 6-1-1 Shinjuku, Shinjuku-ku, Tokyo 160-8402 and [3]College of Health and Welfare, J.F. Oberlin University, 3758 Tokiwamachi, Machida, Tokyo 194-0294, Japan)*
17. **Mechanisms of exercise-induced muscle damage and fatigue: Intracellular calcium accumulation, Yutaka Kano[1], Takashi Sonobe[2], Tadakatsu Inagaki[2], Mizuki Sudo[3] and David C Poole[4]** *([1]Department of Engineering Science, Bioscience and Technology Program, University of Electro-Communications, 1-5-1 Chofugaoka, Chofu, Tokyo, 182-8585, Japan, [2]National Cerebral and Cardiovascular Center Research Institute, Department of Cardiac Physiology, 5-7-1 Fujishiro-dai, Suita, Osaka 565-8565, Japan, [3]Central Research Institute for Physical Activity, Fukuoka University, 8-19-1 Nanakuma, Jonan-ku, Fukuoka, 814-0180, Japan and [4]Departments of Anatomy & Physiology and Kinesiology, Kansas State University, Manhattan, Kansas, 66506, USA)*
18. **Mechanisms of post-contraction activation in skeletal muscle, Azusa Uematsu[1], Hirofumi Sekiguchi[2], Hirofumi Kobayashi[3], Kazushi Tsuchiya[3], Tibor Hortobágyi[4] and Shuji Suzuki[3]** *([1]School of Health and Sport Sciences, Osaka University of Health and Sport Sciences, Sennan-gun, 1-1 Asashirodai, Kumatori-cho, Sennan-gun, Osaka 590-0496,*

Japan, [2]Faculty of Business and Information Sciences, Jobu University, 634-1, Toyatsukamachi, Isesaki, Gunma 372-8588, Japan, [3]Faculty of Human Sciences, Waseda University, 2-579-15, Mikajima, Tokorozawa, Saitama 359-1192, Japan and [4]Center of Human Movement Sciences, University Medical Center Groningen, University of Groningen, 9700 AD Groningen, The Netherlands)

<***Short Review Articles***>

19. **Respiratory muscle fatigue modulates the circulatory response to exercise, Keisho Katayama[1] and Markus Amann[2]** *([1]Research Center of Health, Physical Fitness and Sports, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Aichi 464-8601, Japan, [2]VA Medical Center, Department of Medicine, University of Utah, Salt Lake City, UT 84148, USA)*

20. **The effects of exercise on adipokines -Focus on circulating adiponectin level in human studies-, Shigeharu Numao** *(Department of Health and Sports Sciences, Kyoto Pharmaceutical University, 5 Nakauchi-cho, Misasagi, Yamashina-ku, Kyoto 607-8414 and Waseda Institute for Sport Sciences, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*

21. **Exercise and skeletal muscle regeneration, Mitsutoshi Kurosaka[1,2] and Shuichi Machida[1]** *([1]School of Physical Education, Tokai University, 4-1-1 Kitakaname, Hiratuka, Kanagawa 259-1292 and [2]Department of Physiology, St. Marianna University School of Medicine, 2-16-1 Sugao, Miyamae, Kawasaki, Kanagawa 216-8511, Japan)*

22. **Accumulating exercise and postprandial lipaemia, Masashi Miyashita[1], Stephen F Burns[2] and David J Stensel[3]** *([1]Tokyo Gakugei University, Department of Health and Sports Sciences, 4-1-1 Nukuikitamachi, Koganei 184-8501, Japan, [2]Nanyang Technological University, Physical Education and Sports Science Academic Group, 1 Nanyang Walk 637616 Singapore and [3]Loughborough University, School of Sport, Exercise and Health Sciences, New Ashby Road, Loughborough LE11 3TU United Kingdom)*

23. **Spatial perception and vestibular function, Keisuke Kushiro** *(Center for the Promotion of Excellence in Higher Education, Kyoto University, Yoshida Nihonmatsu-cho, Sakyo-ku, Kyoto 606-8501, Japan)*

◆JPFSM : *Vol. 1, No.4 (November, 2012)*: 16 papers

<***Review Articles***>

1. **Application of bioelectrical impedance to sports science, Hideaki Komiya** *(Department of Health and Sports Sciences, Faculty of Education, Utsunomiya University, 350 Mine-machi, Utsunomiya City, Tochigi 321-8505, Japan)*

2. **Regulation of glucose transport in skeletal muscle during and after exercise, Kentaro Kawanaka** *(Musculoskeletal System Function Research Center, Niigata University of Health and Welfare, 1398 Shimami-cho, Niigata City, Niigata 950-3198, Japan)*
3. **Central command: Feedforward control of the sympathoadrenal system during exercise, Kanji Matsukawa, Nan Liang and Kei Ishii** *(Department of Integrative Physiology, Graduate School of Biomedical and Health Sciences, Hiroshima University, 1-2-3 Kasumi, Minami-ku, Hiroshima 734-8551, Japan)*
4. **The role of exercise and diet in maintaining bone health, Yoshiko Ishimi[1,2] and Kaoru Yanaka[1,3]** *([1]Department of Food Function and Labeling, National Institute of Health and Nutrition, 1-23-1 Toyama, Shinjuku-ku, Tokyo 162-8636, [2]Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192 and [3]Graduate School of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*
5. **Mild exercise model for enhancement of hippocampal neurogenesis: A possible candidate for promotion of neurogenesis, Masahiro Okamoto and Hideaki Soya** *(Laboratory of Exercise Biochemistry and Neuroendocrinology, Institute for Health & Sports Sciences, University of Tsukuba, 1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8574, Japan)*
6. **An optimal exercise protocol for improving endurance performance and health, Hiroaki Tanaka, Kazuhiro Morimura and Keisuke Shiose** *(Laboratory of Exercise Physiology, Faculty of Sports and Health Science, Fukuoka University, 8-19-1 Nanakuma, Jonan-ku, Fukuoka 814-0180, Japan)*
7. **Arterial function during various acute exercises, Hajime Miura** *(Laboratory for Applied Physiology, Institute of Socio-Arts and Science, University of Tokushima, 1-1 Minamijyosanjima, Tokushima 770-8502, Japan)*
8. **The old-but-new theories about human voluntary motor control, Masataka Suzuki[1] and Toshiaki Wasaka[2]** *([1]Department of Psychology, Kinjo Gakuin University, 2-1723 Omori, Moriyama, Nagoya 463-8521 and [2]Department of Integrative Physiology, National Institute for Physiological Sciences, 38 Nishigonaka, Myodaiji, Okazaki, Aichi 444-8585, Japan)*
9. **Evaluation of functional properties of skeletal muscle using functional magnetic resonance imaging (fMRI), Hiroshi Akima** *(Research Center of Health, Physical Fitness & Sports, Graduate School of Education and Human Development, Nagoya University, Furo, Chikusa, Nagoya, Aichi 464-8601, Japan)*
10. **Arterial baroreflex regulation of cerebral blood flow in humans, Shigehiko Ogoh[1], Ai Hirasawa[1] and James P. Fisher[2]** *([1]Department of Biomedical Engineering, Toyo University,*

2100 Kujirai, Kawagoe-shi, Saitama 350-8585, Japan and [2]School of Sport and Exercise Sciences, University of Birmingham, Edgbaston, Birmingham, West Midlands B15 2TT UK)

11. **Reference values and prediction of sarcopenia in Japanese men and women, Kiyoshi Sanada[1] and Motohiko Miyachi[2]** *([1]College of Sport and Health Science, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu, Shiga 525-8577 and [2]Department of Health Promotion and Exercise, National Institute of Health and Nutrition, 1-23-1 Toyama, Shinjuku, Tokyo 162-8636, Japan)*
12. **The suppression of tumor necrosis factor–alpha production in response to pathogen stimulation by strenuous exercise and underlying mechanisms, Hiromi Yano[1], Masataka Uchida[1], Eri Oyanagi[2], Noriaki Kawanishi[3], Daisuke Shiva[4] and Hiromi Kitamura[5]** *([1]Department of Health and Sports Science, Kawasaki University of Medical Welfare, 288 Matsushima, Kurashiki, Okayama 701-0193, [2]Department of Health Promotion and Exercise, National Institute of Health and Nutrition, 1-23-1 Toyama, Shinjuku, Tokyo 162-8636, [3]Graduate School of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [4]Department of Health Science, Kurashiki University of Science and the Arts, 2640 Nishinoura, Tsurajima, Kurashiki, Okayama 712-8505 and [5]Exercise Physiology Laboratory, Wayo Women's University, 2-3-1 Konodai, Ichikawa, Chiba 272-8533, Japan)*
13. **Regulatory mechanisms of muscle fiber types and their possible interactions with external nutritional stimuli, Koichi Nakazato and Arata Tsutaki** *(Department of Exercise Physiology, Nippon Sport Science University, 7-1-1 Fukasawa, Setagaya-ku, Tokyo 158-8508, Japan)*

<Short Review Articles>

14. **Somatosensory control of spinal reflex circuitry during robotic-assisted stepping, Tsuyoshi Nakajima[1], Kiyotaka Kamibayashi[2] and Kimitaka Nakazawa[3]** *([1]Integrative Physiology, Kyorin University School of Medicine, 6-20-2 Shinkawa, Mitaka, Tokyo 181-8611, [2]Graduate School of Systems and Information Engineering, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8577 and [3]Graduate School of Arts and Sciences, University of Tokyo, 3-8-1 Komaba, Meguro-ku, Tokyo 153-8902, Japan)*
15. **Effect of hyperthermia-induced hyperventilation on central fatigue during exercise in heat, Keiji Hayashi** *(Junior College, University of Shizuoka, 2-2-1 Oshika, Suruga-ku, Shizuoka 422-8021, Japan)*
16. **The regulatory mechanisms of satellite cell migration in skeletal muscle, Minenori**

Ishido *(Faculty of Education, Creative Arts and Sciences, Aichi University of Education, 1 Hirosawa, Igaya-cho, Kariya, Aichi 448-0001, Japan)*

◆JPFSM : *Vol. 2, No. 1 (March, 2013)* : 15 papers

<*Review Articles*>

1. **Molecular mechanisms of skeletal tissue formation, Akira Nifuji** *(Department of Pharmacology, Tsurumi University School of Dental Medicine, 2-1-3 Tsurumi, Tsurumi-ku, Yokohama City, Kanagawa 230-8501, Japan)*
2. **Role of myoglobin in regulating respiration during muscle contraction, Kazumi Masuda[1], Tatsuya Yamada[1], Rie Ishizawa[1] and Hisashi Takakura[2]** *([1]Faculty of Human Sciences, Kanazawa University, Kakuma, Kanazawa, Ishikawa 920-1192 and [2]Faculty of Health and Sports Science, Doshisha University, 1-3 Tatara-Miyakodani, Kyotanabe, Kyoto 610-0394, Japan)*
3. **Association of mitochondrial DNA polymorphisms and/or haplogroups with elite Japanese athlete status, Noriyuki Fuku[1], Eri Mikami[1-3] and Masashi Tanaka[1]** *([1]Department of Genomics for Longevity and Health, Tokyo Metropolitan Institute of Gerontology, 35-2 Sakae-cho, Itabashi-ku, Tokyo 173-0015, [2]Graduate School of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192 and [3]Japan Society for the Promotion of Science, 5-3-1 Kojimachi, Chiyoda-ku, Tokyo 102-0083, Japan)*
4. **Significance of finger tactile information for postural stability in humans, Motoki Kouzaki** *(Laboratory of Neurophysiology, Graduate School of Human and Environmental Studies, Kyoto University, Yoshida-nihonmatsu-cho, Sakyo-ku, Kyoto 606-8501, Japan)*
5. **Aging and thermoregulation, Manabu Shibasaki[1], Kazunobu Okazaki[2] and Yoshimitsu Inoue[3]** *([1]Faculty of Human Life and Environment, Nara Women's University, Kita-uoya, Nishi-machi, Nara 630-8506, [2]Research Center for Urban Health and Sports, Osaka City University, 3-3-138 Sugimoto, Sumiyoshi-ku, Osaka 558-8585 and [3]Laboratory for Human Performance Research, Osaka International University, 6-21-57 Tohdacho, Moriguchi, Osaka 570-8555, Japan)*
6. **Control of cell differentiation by mechanical stress, Jong-Hoon Park, Takashi Ushida and Takayuki Akimoto** *(Division of Regenerative Medical Engineering, Center for Disease Biology and Integrative Medicine, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo, Tokyo 113-0033, Japan)*
7. **How baseball spin influences the performance of a pitcher, Tomoyuki Nagami[1], Takatoshi Higuchi[2] and Kazuyuki Kanosue[1]** *([1]Faculty of Sport Sciences, Waseda University,*

2-579-15 Mikajima, Tokorozawa, Saitama 359-1192 and [2]Graduate School of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)

8. **The role of gut-hypothalamus axis for feeding regulation, Koji Toshinai** *(Department of Neurology, Respirology, Endocrinology and Metabolism, Faculty of Internal Medicine, Miyazaki Medical College, University of Miyazaki, 5200 Kihara, Miyazaki, Miyazaki 889-1692, Japan)*
9. **Age and activity-related changes in the respiratory motor system, Hirofumi Miyata** *(Biological Sciences, Graduate School of Medicine, Yamaguchi University, 1677-1 Yoshida, Yamaguchi City, Yamaguchi 753-8515, Japan)*
10. **Regulation of the exercise-induced expression of the monocarboxylate transporters MCT1 and MCT4 in skeletal muscle, Taku Hamada and Masaki Takimoto** *(Laboratory of Exercise Physiology and Biochemistry, Graduate School of Sport and Exercise Sciences, Osaka University of Health and Sport Sciences (OUHS), 1-1 Asashirodai, Kumatori-cho, Sennan-gun, Osaka 590-0496, Japan)*
11. **Human calorimetry: Energy expenditure and substrate utilization measurements using a respiratory chamber, Masanobu Hibi[1], Takafumi Ando[2,3], Shigeho Tanaka[3] and Kumpei Tokuyama[4]** *([1]Health Care Food Research Laboratories, Kao Corporation, 2-5-7 Bunka, Sumida-ku, Tokyo 131-8501, [2]Graduate School of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [3]Department of Nutritional Science, National Institute of Health and Nutrition, 1-23-1 Toyama, Shinjuku-ku, Tokyo 162-8636 and [4]Institute of Health and Sport Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8574, Japan)*

<Short Review Articles>

12. **Growth factor-dependent and independent regulation of skeletal muscle mass - Is IGF-1 necessary for skeletal muscle hypertrophy? -, Mitsunori Miyazaki** *(Department of Physical Therapy, School of Rehabilitation Sciences, Health Sciences University of Hokkaido, 1757 Kanazawa, Tobetsu-cho, Ishikari-gun, Hokkaido 061-0293, Japan)*
13. **Exercise training modes and vascular adaptations, Hiroshi Kawano** *(Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*
14. **Genes and molecules related to obesity and lifestyle-related disease and exercise, Masaki Kimura** *(Department of Pharmacotherapeutics, Faculty of Pharmacy, Keio University, 1-5-30 Shibakoen, Minato-ku, Tokyo 105-8512, Japan)*
15. **Molecular signaling mechanisms that mediate exercise training effects on insulin sensitivity, Masaru Nagasaki[1], Yoshiharu Shimomura[2] and Yuzo Sato[1]** *([1]Department of*

Health Science, Faculty of Psychological & Physical Science, Aichi Gakuin University, 12 Araike, Iwasaki-cho, Nisshin, Aichi 470-0915 and [2]Department of Applied Molecular Biosciences, Graduate School of Bioagricultural Sciences, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Aichi 464-8601, Japan)

◆JPFSM : *Vol. 2, No.2 (May, 2013)* : 15 papers

<*Review Articles*>

1. **Lipid metabolism and exercise, Takeshi Hashimoto** *(Faculty of Sport and Health Science, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu, Shiga 525-8577, Japan)*
2. **Anticipatory postural control during arm movements and floor translation, Katsuo Fujiwara** *(Department of Human Movement and Health, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, 13-1 Takara-machi, Kanazawa 920-8640, Japan)*
3. **Exercise-induced hypoxemia and anaerobic capacity in Thoroughbred horses, Hajime Ohmura[1], Atsushi Hiraga[1] and James H. Jones[2]** *([1]Equine Research Institute, JRA, 321-4 Tokami-cho, Utsunomiya, Tochigi 320-0856, Japan and [2]Department of Surgical and Radiological Sciences, School of Veterinary Medicine, University of California, Davis, CA 95616 USA)*
4. **Calcium kinetics of sarcoplasmic reticulum and muscle fatigue, Masanobu Wada[1], Mai Kuratani[1] and Keita Kanzaki[2]** *([1]Graduate School of Integrated Arts and Sciences, Hiroshima University, 1-7-1 Kagamiyama, Higashi-hiroshima, Hiroshima, 739-8521 and [2]Faculty of Food Culture, Kurashiki Sakuyo University, 3515 Nagao-Tamashima, Kurashiki-shi, Okayama, 710-0292, Japan)*
5. **Molecular basis of muscle hypertrophy and atrophy: potential therapy for muscular dystrophy, Naoki Ito[1,2], Yuko Miyagoe-Suzuki[1] and Shin'ichi Takeda[1,3]** *([1]Department of Molecular Therapy, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Kodaira 187-8502 and [2]Department of Biological Information, Tokyo Institute of Technology, Yokohama 226-8501, Japan)*
6. **Low back disorders among athletes and its prevention, Koji Kaneoka (***Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozaw, Saitama 359-1192, Japan*)
7. **Neural control of muscle lengthening: Task- and muscle-specificity, Hirofumi Sekiguchi[1], Kimitaka Nakazawa[2] and Tibor Hortobágyi[3]** *([1]Sports Management Program, Faculty of Business and Information Sciences, Jobu University, 634-1, Toyatsukamachi, Isesaki, Gunma 372-8588, Japan, [2]Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo 3-8-1, Komaba, Meguro-Ku, Tokyo 153-8902, Japan, [3]Center for*

Human Movement Sciences, University Medical Center Groningen, A. Deusinglaan 1, Room 334, Building 3215, 9700 AD Groningen, The Netherlands)

8. **Muscle oxygenation monitoring using near-infrared spectroscopy, Takafumi Hamaoka** *(Faculty of Sport and Health Science, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu, Shiga 525-8577, Japan)*
9. **The biomarkers of sarcopenia in elderly people, Kishiko Ogawa** *(Laboratory of Nutritional Physiology, School of Food and Nutrition Sciences, The University of Shizuoka, 52-1 Yoda, Suruga-ku, Shizuoka-shi, Shizuoka 422-8526, Japan)*
10. **Metabolic and endocrine responses to hypoxic exposure, Kazushige Goto** *(Faculty of Sport and Health Science, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu, Shiga 525-8577, Japan)*

<Short Review Articles>

11. **Effects of exercise on glucagon-like peptide-1 (GLP-1), Shin-ya Ueda, Hidehiro Nakahara and Tadayoshi Miyamoto** *(Department of Acupuncture, Morinomiya University of Medical Sciences, 1-26-16, Nankokita, Suminoe-ku, Osaka City, Osaka 559-8611, Japan)*
12. **Mechanisms underlying ultraviolet radiation-induced dermal aging, Shigeo Kawada[1,2], Satoshi Nakada[1] and Yuhei Makanae[1]** *([1]Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, 3-8-1 Komaba, Meguro-ku, Tokyo 153-8902 and [2]Future Institute for Sport Sciences, Waseda University, 1-6-1 Nishiwaseda, Shinjuku-ku, Tokyo 169-8601, Japan)*
13. **Alpha-actinin isoform and skeletal muscle activity, Yuji Ogura[1], Ryo Kakigi[2] and Hisashi Naito[3]** *([1]Department of Anatomical Sciences and Neurobiology, School of Medicine, University of Louisville, 500 S Preston St. Louisville, KY, 40202, [2]Department of Physiology, School of Medicine, Juntendo University 2-1-1 Hongo, Bunkyo, Tokyo 113-8421, Japan and [3]Department of Exercise Physiology, Graduate School of Health and Sports Science, Juntendo University, 1-1 Hiragagakuendai, Inzai, Chiba 270-1695, Japan)*
14. **Role of macrophages in exercise-induced enhancement of insulin sensitivity in skeletal muscle, Shin-ichi Ikeda and Yoshifumi Tamura** *(Department of Metabolism and Endocrinology, Sportology Center, Juntendo University Graduate School of Medicine, 2-1-1 Hongo, Bunkyo, Tokyo 113-8421, Japan)*
15. **Influence of amino acid supplementation on capillary growth in the heart and skeletal muscles, Junichi Suzuki** *(Laboratory of Exercise Physiology, Health and Sports Sciences, Course of Sports Education, Department of Education, Hokkaido University of Education,*

Midorigaoka, Iwamizawa, Hokkaido 068-8642, Japan)

◆JPFSM : *Vol. 2, No.3 (August, 2013)* : 16 papers

<*Review Articles*>

1. **Mechanisms of lifespan extension and preventive effects of calorie restriction on tumor development: Pssible link between central neuroendocrine system and peripheral metabolic adaptation, Takuya Chiba[1,2], Kesu Dong[1], Shoko Nishizono[3] and Isao Shimokawa[4]** *([1]Biomedical Gerontology Laboratory, Faculty of Human Sciences, and [2]Institute of Applied Brain Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [3]Faculty of Biotechnology and Life Science, Sojo University, 4-22-1 Ikeda, Nishi-ku, Kumamoto, Kumamoto 860-0082 and [4]Investigative Pathology, Graduate School of Biomedical Sciences, Nagasaki University, 1-12-4 Sakamoto, Nagasaki, Nagasaki 852-8523, Japan)*
2. **Development and activities of the fight against doping, Takao Akama[1] and Ayako Abe[2]** *([1]Faculty of Sport Sciences and [2]Graduate School of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, Japan)*
3. **Physical fitness, physical activity, exercise training and cognitive function in older adults, Tomohiro Okura[1], Mahshid Saghazadeh[2], Yuki Soma[2] and Kenji Tsunoda[3]** *([1]Faculty of Health and Sport Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8574, [2]Doctoral Program in Physical Education, Health and Sport Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8574 and [3]Meiji Yasuda Life Foundation of Health and Welfare Physical Fitness Research Institute, Tobuki 150, Hachioji, Tokyo 192-0001, Japan)*
4. **Spatiotemporal adaptability of the human perceptuo-motor system, Shigeki Takeuchi[1], Hirofumi Sekiguchi[1], Kozue S Matsuzaki[2], Makoto Miyazaki[2,3]** *([1]Sports Management Program, Faculty of Business and Information Sciences, Jobu University, 634-1, Toyatsukamachi, Isesaki, Gunma 372-8588, [2]Research Institute of Kochi University of Technology, Tosayamada, Kami-city, Kochi 782-8502 and [3]Research Institute for Time Studies, Yamaguchi University, 1677-1 Yoshida, Yamaguchi 753-8511, Japan)*
5. **Exercise, nutrition, and aging in the regulation of muscle protein synthesis, Koji Sato and Satoshi Fujita** *(Faculty of Sport and Health Science, Ritsumeikan University, Shiga 525-8577, Japan)*
6. **Exercise-induced changes in amino acid levels in skeletal muscle and plasma, Keisuke Ishikura[1], Song-Gyu Ra[2,4] and Hajime Ohmori[3]** *([1]Sports Research and Development Core, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki, 305-8574, [2]Graduate School of*

Comprehensive Human Sciences University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki, 305-8574, [3]Faculty of Health and Sport Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki, 305-8574 and [4]Reserch Fellow of The Japan Society for the Promotion of Science, 5-3-1 Kojimachi, Chiyoda-ku, Tokyo, 102-0083, Japan)

7. **Pathophysiological significance of measuring exhaled gasotransmitters during exercise, Yoshifumi Yasuda** *(Health Science Center, Toyohashi University of Technology, 1-1 Hibarigaoka, Tenpaku-cho, Toyohashi, Aichi 441-8580, Japan)*
8. **Shifts in the baroreflex control of sympathetic nerve activity induced by exercise, Kenju Miki [1] and Misa. Yoshimoto[2]** *([1]Department of Environmental Health, Life Science and Human Technology, Nara Women's University, Kita-Uoya Nishimachi, Nara 630-8506 and [2]Department of Cardiac Physiology, National Cerebral & Cardiovascular Center Research Institute, 5-7-1 Fujishiro-dai, Suita, Osaka 565-8565, Japan)*
9. **Genetic factors associating the effects of habitual exercise on arterial stiffness, Motoyuki Iemitsu** *(Faculty of Sport and Health Science, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu, Shiga 525-8577, Japan)*

<Short Review Articles>

10. **Natriuretic peptide and exercise, Kazuhiro Suda** *(Graduate School of Decision Science and Technology, Tokyo Institute of Technology, 2-12-1 Ookayama, Meguro-ku, Tokyo 152-8552, Japan)*
11. **Central command and muscle metaboreflex effect on superficial venoconstriction in the resting limb, Anna Ooue[1,2] and Tomoko Sadamoto[1]** *([1]Research Institute of Physical Fitness, Japan Women's College of Physical Education, 8-19-1 Karasuyama, Setagaya-ku, Tokyo 157-8565 and [2]Faculty of Food Life Sciences, Toyo University, 1-1-1 Izumino, Itakura-machi, Gunma 374-0193, Japan)*
12. **Effects of intermittent hypobaric hypoxic exercise on cardiovascular adaptation, Futoshi Ogita** *(Department of Sports and Life Science, National Institute of Fitness and Sports, 1 Shiromizu-cho, Kanoya City, Kagoshima, Japan)*
13. **Influence of stretch and pressure as mechanical stresses on skeletal muscle, Noriteru Morita[1], Shingo Takada[2,3] and Koichi Okita[4]** *([1]Hokkaido University of Education, Iwamizawa, 2-34-1 Midorigaoka, Iwamizawa, Hokkaido 068-8642, [2]Hokkaido University Graduate School of Medicine, [3]Research Fellow of the Japan Society for the Promotion of Science, [4]Hokusho University)*
14. **Modulation of core body temperature and energy metabolism by amino acids, Ippei**

Yamaoka *(NarutoReserch Institute, Reserch and Development Center, Otsuka Pharmaceutical Factory, Inc. 115 Kuguhara, Tateiwa Muya-cho, Naruto, Tokushima 772-8601, Japan)*

15. Regulation of skeletal muscle GLUT-4 expression by exercise and nutritional stimuli**, Kazuhiko Higashida[1], Izumi Tabata[2], Mitsuru Higuchi[1] and Shin Terada[3]** *(Faculty of Sport Sciences, Waseda University, 2-579-15 Mikajima, Tokorozawa, Saitama 359-1192, [2]Faculty of Sport and Health Science, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu, Shiga 525-8577 and [3]Department of Life Sciences, Graduate School or Arts and Sciences, The University of Tokyo, 3-8-1 Komaba, Meguro-ku, Tokyo 153-8902, Japan)*

16. Economical running strategy for East African distance runners, Masaki Ishikawa[1], Kanae Sano[1], Yoko Kunimasa[1], Toshiaki Oda[2], Caroline Nicol[3)], Akira Ito[1], Paavo V Komi[4] *([1]Osaka University of Health and Sport Sciences, Graduate School of Sport and Exercise Sciences, 1-1 Asashirodai, Kumatori-cho, Sennan-gun, Osaka 590-0496, Japan, [2]Hyogo University of Teacher Education, Faculty of Physical Education, 942-1 Shimokume, Kato-city, Hyogo 673-1494, Japan, [3]Aix-Marseille Universit´e, CNRS, Facult´edes Sciences du Sport, CP 910, av. de Luminy, Marseille cedex 09, Marseille, F-13288, France and [4]University of Jyväskylä, Likes Research Center, PO Box 35, Jyväskylä, FI-40014, Finland)*

◆JPFSM : *Vol.2, No. 4 (November, 2013)* : 15 papers

<*Review Articles*>

1. **Role of dietary flavonoids in oxidative stress and prevention of muscle atrophy, Rie Mukai and Junji Terao** *(Department of Food Science, Graduate School of Nutrition and Biosciences, University, of Tokushima, 3-18-15 Kuramoto-cho, Tokushima 770-8503, Japan)*

2. **Water exercise and health promotion, Sho Onodera[1], Akira Yoshioka[2], Kazuki Nishimura[3], Hiroshi Kawano[4], Kumiko Ono[5], Takeshi Matsui[6], Futoshi Ogita[7] and Hideki Hara[8]** *([1]Department of Health and Sports Sciences, Kawasaki University of Medical Welfare, 288, matsushima, Kurashiki-shi, Okayama 701-0193, [2]Public Health, Kagawa University, Saiwai-cho Takamatsu-shi, Kagawa 760-0016, [3]Department of Global Environment Studies, Faculty of Environmental studies, Hiroshima Institute of Technology, 2-1-1 Miyake, Saeki-ku, Hiroshima 731-5193, [4]Faculty of Letters, Kokushikan University, 4-28-1, Setagaya, Setagaya-ku, Tokyo 154-8515, [5]Graduate School of Health Sciences, Kobe University, 7-10-2, Tomogaoka, Suma-ku, Kobe Hyogo 654-0142, [6]Nihon Fukushi University, Okuda, Mihama-cho, Chita-gun, Aichi 470-3295, [7]Department of Sports and Life Science, National Institute of Fitness and Sports, 1 Shiromizu-cho, Kanoya-shi, Kagoshima 891-2393 and 8Faculty of Letters, Kokugakuin University, 4-10-28 higashi, shibuya-ku, Tokyo 150-8440, Japan)*

3. **Age-related sarcopenia and amino acid nutrition, Hisamine Kobayashi** *(Wellness Business R&D Planning Department, Ajinomoto Co., Inc., 1-15-1 Kyobashi, Chuo-ku, Tokyo 104-8315, Japan)*
4. **Role of nutrient transporters in lifestyle-related diseases, Yutaka Taketani, Hisami Yamanaka-Okumura, Hironori Yamamoto, Eiji Takeda** *(Department of Clinical Nutrition, Institute of Health Biosciences, University of Tokushima Graduate School, 3-18-15 Kuramoto-cho, Tokushima 770-8503, Japan)*
5. **Effects of aging on unloading-induced skeletal muscle atrophy and subsequent recovery in rats, Hideki Yamauchi, Yuki Takeda, Shino Tsuruoka and Shigeru Takemori** *(Division of Physical Fitness, Department of Molecular Physiology, Jikei University School of Medicine, 8-3-1 Kokuryo, Chofu, Tokyo 182-8570, Japan)*
6. **How β_2-adrenergic agonists induce skeletal muscle hypertrophy?, Takashi Kitaura** *(Laboratory of Exercise Biochemistry, Division of Sports Education, Health Service Center, Kanazawa University, Kakuma, Kanazawa, Ishikawa 920-1192, Japan)*
7. **Hyperthermia effects on brain function and exercise capacity, Hiroshi Hasegawa[1] and Stephen S. Cheung[2]** *([1]Graduate School of Faculty of Integrated Arts and Sciences, Hiroshima University, 1-7-1 Kagamiyama, Higashihiroshima739-8521, Japan and [2]Department of Kinesiology, Brock University, 500 Glenridge Avenue, St. Catharines, Ontario, Canada)*
8. **Sarcopenia: its definition, prevalence, functional outcomes and prevention, Miji Kim[1,2] and Shoji Shinkai[1]** *([1]Tokyo Metropolitan Institute of Gerontology, 35-2 Sakae-cho, Itabashi-ku, Tokyo 173-0015, Japan and [2]The Center on Aging and Health, Johns Hopkins University, Baltimore, MD 21205, USA)*
9. Alteration in blood leukocyte profile due to exercise and its implication**, Ryoichi Nagatomi** *(Division of Biomedical Engineering for Health & Welfare, Tohoku University Graduate School of Biomedical Engineering)*

<***Short Review Articles***>

10. **Regulation of skeletal muscle atrophy, Shigetada Teshima-Kondo and Takeshi Nikawa** *(Department of Nutritional Physiology, Institute of Health Biosciences, The University of Tokushima Graduate School, 3-18-15 Kuramoto-cho, Tokushima 770-8503, Japan)*
11. **Reactive oxygen species and endurance training-induced adaptations, Hideki Matoba** *(Laboratory of Exercise Physiology, Institute of Socio-Arts and Sciences, The University of Tokushima, 1-1 Minamijosanjima-cho, Tokushima 770-8502, Japan)*
12. **Glutamine and Exercise, Mioko Nagashima, Yuji Soejima and Kazuto Saito** *(Department*

of Sports and Life Science, National Institute of Sports and Fitness in Kanoya, Shiromizu-1, Kanoya, Kagoshima 891-2393, Japan)

13. **Cardiovascular responses in rest, exercise, and recovery phases in water immersion, Takeshi Matsui[1] and Sho Onodera[2]** *([1]Faculty of Economics, Nihon Fukushi University, Okuda, Mihama-cho, Chita-gun, Aichi 470-3295 and [2]Faculty of Health Science and Technology, Kawasaki University of Medical Welfare, 288 Matsushima, Kurashiki-shi, Okayama 701-0193, Japan)*
14. **Exercise and oxidative stress in hypoxia, Junichi Nagasawa[1], Takako Kizaki[2] and Hideki Ohno[2]** *([1]Bioscience and Technology Program, Department of Engineering Science, Graduate School of Informatics and Engineering, The University of Electro-Communications, Tokyo 182-8585 and [2] Department of Molecular Predictive Medicine and Sport Science, Kyorin University, School of Medicine, 6-20-2 Shinkawa, Mitaka, Tokyo 181-8611, Japan)*
15. **Mechanisms of chronic inflammation improvement by exercise: focus on immune response of local tissue, Noriaki Kawanishi[1], Hiromi Yano[2], Tsubasa Mizokami[3] and Katsuhiko Suzuki[4]** *([1]Faculty of Health Sciences, Hokkaido University, Kita-12, Nishi-5, Sapporo, Hokkaido, [2]Department of Health and Sports Science, Kawasaki University of Medical Welfare, 288 Matsushima, Kurashiki, Okayama 701-0193, [3]Graduate School of Sport Sciences, Waseda University, 2-579-15 Tokorozawa, Saitama 359-1192 and [4]Faculty of Sport Sciences, Waseda University, 2-579-15 Tokorozawa, Saitama 359-1192, Japann)*