



ARIHHP SCHOLARLY ACTIVITIES 2015

- ◆ Research Articles: 64
- ◆ Book Chapters: 9
- ◆ Distinctions/Awards: 10

A. Department of Mind

Research Articles

Yook JS, Shibato J, Rakwal R, Soya H. DNA microarray-based experimental strategy for trustworthy expression profiling of the hippocampal genes by astaxanthin supplementation in adult mouse. *Genomics Data*, 7: 32-37, 2015.

Okamoto M, Yamamura Y, Liu YF, Lee MC, Matsui T, Shima T, Soya M, Takahashi K, Soya S, McEwen B, Soya H. Hormetic effects by exercise on hippocampal neurogenesis with glucocorticoid signaling. *Brain Plast*, 1: 149-158, 2015.

Inoue K, Okamoto M, Shibato J, Lee MC, Matsui T, Rakwal R, Soya H. Long-Term Mild, rather than Intense, Exercise Enhances Adult Hippocampal Neurogenesis and Greatly Changes the Transcriptomic Profile of the Hippocampus. *PLOS ONE*, 10: e0128720, 2015.

Matsui T, Soya S, Kawanaka K, Soya H. Brain Glycogen Decreases During Intense Exercise Without Hypoglycemia: The Possible Involvement of Serotonin. *Neurochem Res*, 40: 1333-1340, 2015.

Tamura M, Nemoto K, Kawaguchi A, Kato M, Arai T, Kakuma T, Mizukami K, Matsuda H, Soya H, Asada T. Long-term mild intensity exercise regimen preserves prefrontal cortical volume against aging. *Int J Geriatr Psychiatry*, 30: 686-694, 2015.

+2 articles

Books

8 books

Distinctions/Awards

2 awards

B. Department of **Body**

Research Articles

Ichinose M, Ichinose-Kuwahara T, Kondo N, Nishiyasu T. Increasing blood flow to exercising muscle attenuates systemic cardiovascular responses during dynamic exercise in humans. *Am J Physiol Regul Integr Comp Physiol*, 309(10): 1234-1242, 2015.

Fujii N, Tsuji B, Honda Y, Kondo N, Nishiyasu T. Effect of short-term exercise-heat acclimation on ventilatory and cerebral blood flow responses to passive heating at rest in humans. *J Appl Physiol*, 119(5): 435-444, 2015.

Fujii N, Tsuchiya S, Tsuji B, Watanabe K, Sasaki Y, Nishiyasu T. Effect of voluntary hypocapnic hyperventilation on the metabolic response during Wingate anaerobic test. *Eur J Appl Physiol*, 115(9): 1967-1974, 2015.

Amano T, Inoue Y, Koga S, Nishiyasu T, Kondo N. Influence of exercise training with thigh compression on heat-loss responses. *Scand J Med Sci Sports*, 1: 173-182, 2015.

Delliaux S, Ichinose M, Watanabe K, Fujii N, Nishiyasu T. Cardiovascular responses to forearm muscle metaboreflex activation during hypercapnia in humans. *Am J Physiol Regul Integr Comp Physiol*. 309(1): R43-50, 2015.

Amano T, Ichinose M, Inoue Y, Nishiyasu T, Koga S, Kondo N. Modulation of muscle metaboreceptor activation upon sweating and cutaneous vascular responses to rising core temperature in humans. *Am J Physiol Regul Integr Comp Physiol*. 308(12): R990-997, 2015.

Tsuji B, Honda Y, Ikebe Y, Fujii N, Kondo N, Nishiyasu T. Voluntary suppression of hyperthermia-induced hyperventilation mitigates the reduction in cerebral blood flow velocity during exercise in the heat. *Am J Physiol Regul Integr Comp Physiol*, 308(8): R669-679, 2015.

Ra SG, Akazawa N, Choi Y, Matsubara T, Oikawa S, Kumagai H, Tanahashi K, Ohmori H, Maeda S. Taurine supplementation reduces eccentric exercise-induced delayed onset muscle soreness in young men. *Adv Exp Med Biol*, 803: 765-772, 2015.

Maeda S, Zempo-Miyaki A, Sasai H, Tsujimoto T, So R, Tanaka K. Lifestyle modification decreases arterial stiffness in overweight and obese men: dietary modification vs. exercise training. *Int J Sport Nut Exerc Metab*, 25(1): 69-77, 2015.

Kumagai H, Zempo-Miyaki A, Yoshikawa T, Tsujimoto T, Tanaka K, Maeda S. Lifestyle modification increases serum testosterone level and decrease central blood pressure in overweight and obese men. *Endocr J*, 62(5): 423-430, 2015.

Tanabe Y, Maeda S, Akazawa N, Zempo-Miyaki A, Choi Y, Ra SG, Imaizumi A, Otsuka Y, Nosaka K. Attenuation of indirect markers of eccentric exercise-induced muscle damage by curcumin. *Eur J Appl Physiol*, 115(9): 1949-1957, 2015.

Tanaka H, Miyachi M, Murakami H, Maeda S, Sugawara J. Attenuated age-related increases in arterial stiffness in Japanese and American women. *J Am Geriatr Soc*, 63(3): 1170-1174, 2015.

Kosaki K, Sugawara J, Akazawa N, Tanahashi K, Kumagai K, Ajisaka R, Maeda S. No influence of lower leg heating on central arterial pulse pressure in young men. *J Physiol Sci*, 65(4): 311-316, 2015.

Choi Y, Miura M, Nakata Y, Sugawara T, Nissato S, Otsuki T, Sugawara J, Iemitsu M, Shimano H, Iijima Y, Tanaka K, Kuno S, Mahapatra NR, Maeda S, Takekoshi K. A common genetic variant of the chromogranin a-derived peptide catestatin is associated with atherogenesis and hypertension in a Japanese population. *Endocr J*, 62(9): 797-804, 2015.

Otsuki T, Maeda S, Mukai J, Ohki M, Nakanishi M, Yoshikawa T. Association between plasma sLOX-1 concentration and arterial stiffness in middle-aged and older individuals. *J Clin Biochem Nutr*, 57(2): 151-155, 2015.

Tomoto T, Sugawara J, Hirasawa A, Imai T, Maeda S, Ogino S. Impact of short-term training camp on arterial stiffness in endurance runners. *J Physiol Sci*, 65(5): 445-449, 2015.

Tomoto T, Sugawara J, Nogami Y, Kazutaka A, Maeda S. The influence of central arterial compliance on cerebrovascular hemodynamics: insights from endurance training

intervention. *J Appl Physiol*, 119(5): 445-451, 2015.

Akazawa N, Ra SG, Sugawara J, Maeda S. Influence of aerobic exercise training on post-exercise response of aortic pulse pressure and augmentation pressure in postmenopausal women. *Front Physiol*, 6: 268, 2015.

Otsuki T, Shimizu K, Maeda S. Changes in arterial stiffness and nitric oxide production with Chlorella-derived multicomponent supplementation in middle-aged and older individuals. *J Clin Biochem Nutr*, 57(3): 228-232, 2015.

Takeda F, Noguchi H, Monma T, Tamiya N. How Possibly Do Leisure and Social Activities Impact Mental Health of Middle-Aged Adults in Japan?: An Evidence from a National Longitudinal Survey. *PLOS ONE*, 10(10): e0139777, 2015.

Monma T, Takeda F, Tsunoda K, Kitano N, Hotoge S, Asanuma T, Okura T. Age and Gender Differences in Relationships between Physical Activity and Sense of Coherence in Community-dwelling Older Adults. *Japanese Journal of Health and Human Ecology*, 81(5): 159-169, 2015.

Kishi K, Takeda F, Nagata Y, Suzuki J, Monma T, Asanuma T. The Japanese Criminal Thinking Inventory Development, Reliability, and Initial Validation of a New Scale for Assessing Criminal Thinking in a Japanese Offender Population. *Int J Offender Ther Comp Criminol*, 59(12): 1308-1321, 2015.

Iwayama K, Kawabuchi R, Park I, Kurihara R, Kobayashi M, Hibi M, Oishi S, Yasunaga K, Ogata H, Nabekura Y, Tokuyama K. Transient energy deficit induced by exercise increases 24-h fat oxidation in young trained men. *J Appl Physiol*, 118: 80-85, 2015.

Usui C, Ando T, Ohkawara K, Miyake R, Oshima Y, Hibi M, Oishi S, Tokuyama K, Tanaka S. Validity and reproducibility of a novel method for time - course evaluation of diet - induced thermogenesis in a respiratory chamber. *Physiol Rep*, 3: e12410, 2015.

Iwayama K., R.Kurihara, Y.Nabekura, R.Kawabuchi, I.Park, M.Kobayashi, H.Ogata, M.Kayaba, M.Satoh, K.Tokuyama. Exercise increases 24-h fat oxidation only when it is performed before breakfast. *EBioMedicine*, 2: 2003-2009, 2015.

+3 articles

Books

1 book

Distinctions/Awards

2 awards

C. Department of **Technique**

Research Articles

Kobayashi K, Kaneoka K, Takagi H, Sengoku Y, Takemura M. Lumber Alignment and Trunk Muscle Activity during the Underwater Streamline Position. *J Swimming Res*, 23: 1-8, 2015.

Takagi H, Nakashima M, Sato Y, Matsuuchi K, Sanders R. Numerical and experimental investigations of human swimming motions. *J Sports Sci*, 34(16): 1564-1580, 2015.

Takagi H. Competitive swimming and ergonomics. *J Ergonomics*, 5(2): e138, 2015.

Nakashima M, Minami A, Takagi H. Optimizing simulation for lower limb motion during throwing in water polo. *Mechanical Engineering Journal*, 2(4): 14-00472, 2015.

Nakamura K, Sengoku Y, Ogata H, Watanabe K, Shirai Y, Nabekura Y. Blood glucose threshold is not consistent with blood lactate threshold by different evaluation methods. *Advances in Exercise and Sports Physiolog*, 21(1): 17-24, 2015.

Sato D, Seko C, Hashitomi T, Sengoku Y, Nomura T. Differential effects of water based exercise on the cognitive function in independent elderly adults. *Aging Clin Exp Res*, 27(2): 149-159, 2015.

Sengoku Y, Nakamura K, Ogata H, Nabekura Y, Nagasaka S, Tokuyama K. Continuous glucose monitoring during a 100 km race - A case study in an elite ultra-marathon runner. *Int J Sports Physiol Perform*, 10: 124-127, 2015.

Hong S, Asai T, Seo K. Visualization of air flow around soccer ball using a particle image velocimetry. *Sci Rep*, 5: 15108, 2015.

Chuman K, Hoshikawa Y, Iida T, Nishijima T. Reference values for the 3200-m run test on soccer pitch for pubescent soccer players. *Football Sci*, 12, 33-42, 2015.

Seki K, Yamamoto K, Kigoshi K, Enomoto Y. Mechanical work calculation methods to evaluate distance runners. *Int Conference on Biomechanics in Sports*, 33: 90-93, 2015.

Kariyama Y, Yoshida T, Hayashi R, Takahashi K, Zushi A, Zushi K. The effect of increasing jump steps on the take-off leg in bounding. *Proceedings of the 33rd Congress of the International Society of Biomechanics in Sports*, 39(9): 694-697, 2015.

Yoshida T, Kariyama Y, Hayashi R, Takahashi K, Zushi A, Zushi K. Development of multistep drop jump test by using different drop heights. *Proceedings of the 33rd Congress of the International Society of Biomechanics in Sports*, 238-241, 2015.

Hayashi R, Kariyama Y, Yoshida T, Takahashi K, Zushi A, Zushi K. Comparison of pull and catch phases during clean exercise. *Proceedings of the 33rd Congress of the International Society of Biomechanics in Sports*, 238-241, 2015.

Takahashi K, Yamada K, Kariyama Y, Yoshida T, Hayashi R, Zushi A, Zushi K. The characteristics of hitting motion using bats having different length and mass but equal moment of inertia. *Proceedings of the 33rd Congress of the International Society of Biomechanics in Sports*, 702-705, 2015.

Zushi A, Kariyama Y, Yoshida T, Hayashi R, Takahashi K, Zushi K. Development of a new assessment method for the rebound jump test. *Proceedings of the 33rd Congress of the International Society of Biomechanics in Sports*, 227-280, 2015.

+14 articles

Distinctions/Awards

6 awards