

CURRICULUM VITAE

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Education

Ph.D., University of Tsukuba, Japan, 2006

Research Experience

2016 – present Associate Professor, Department of Liberal Arts, Junior College, University of Shizuoka

2007 – 2016 Assistant Professor, Department of Liberal Arts, Junior College, University of Shizuoka

2006 – 2007 Postdoctoral Fellow, Institute of Health and Sports Science, University of Tsukuba

Research Interests

Thermoregulation and cardiorespiratory responses during exercise in the heat

Journal Articles

Tsuji B, Hayashi K, Kondo N, Nishiyasu T. Characteristics of hyperthermia-induced hyperventilation in humans. *Temperature*. 3(1): 146-160, 2016.

Hayashi K. Ventilatory response to increasing body temperature: characteristics and effect on central fatigue. *The Journal of Physical Fitness and Sports Medicine*. 4(2): 143-149, 2015.

Hayashi K, Ito N, Ichikawa Y, Suzuki Y. Effect of postprandial thermogenesis on the cutaneous vasodilatory response during exercise. *Applied Physiology, Nutrition, and Metabolism*. 39(8): 920-926, 2014.

Hayashi K. Effect of hyperthermia-induced hyperventilation on central fatigue during exercise in the heat. *The Journal of Physical Fitness and Sports Medicine*. 1(4): 671-673, 2012.

Fujii N, Ogawa T, Ichinose M, Hayashi K, Nishiyasu T. 800-m and 1500-m run times relate to anaerobic performance in competitive runners. *Gazzetta Medica Italiana Archivio per le Scienze Mediche*. 171(4): 491-501, 2012.

Hayashi K, Kawashima T, Suzuki Y. Effect of menstrual cycle phase on the ventilatory response to rising body temperature during exercise. *Journal of Applied Physiology*. 113(2): 237-245, 2012.

Nishiyasu T, Tsukamoto R, Kawai K, Hayashi K, Koga S, Ichinose M. Relationships between the extent of apnea-induced bradycardia and the vascular response in the arm and leg during dynamic two-legged knee-extension exercise. *American Journal of Physiology - Heart and Circulatory Physiology*. 302(3): H864-H871, 2012.

- Hayashi K, Honda Y, Miyakawa N, Fujii N, Ichinose M, Koga S, Kondo N, Nishiyasu T.** Effect of CO₂ on the ventilatory sensitivity to rising body temperature during exercise. *Journal of Applied Physiology*. 110(5):1334-1341, 2011.
- Hayashi K, Honda Y, Ogawa T, Kondo N, Nishiyasu T.** The cross-sectional relationships among hyperthermia-induced hyperventilation, peak oxygen consumption, and the cutaneous vasodilatory response during exercise. *European Journal of Applied Physiology*. 107(5): 527-534, 2009.
- Fujii N, Honda Y, Hayashi K, Kondo N, Nishiyasu T.** Effect of hypohydration on hyperthermic hyperpnea and cutaneous vasodilation during exercise in men. *Journal of Applied Physiology*. 105(5): 1509-1518, 2008.
- Fujii N, Honda Y, Hayashi K, Kondo N, Koga S, Nishiyasu T.** Effects of chemoreflexes on hyperthermic hyperventilation and cerebral blood velocity in resting heated humans. *Experimental Physiology*. 93(8): 994-1001, 2008.
- Ichinose M, Saito M, Fujii N, Ogawa T, Hayashi K, Kondo N, Nishiyasu T.** Modulation of the control of muscle sympathetic nerve activity during incremental leg cycling. *Journal of Physiology*. 586(Pt 11): 2753-2766, 2008.
- Fujii N, Honda Y, Hayashi K, Soya H, Kondo N, Nishiyasu T.** Comparison of hyperthermic hyperpnea elicited during rest and submaximal, moderate intensity exercise. *Journal of Applied Physiology*. 104(4): 998-1005, 2008.
- Ogawa T, Hayashi K, Ichinose M, Nishiyasu T.** Relationship between resting ventilatory chemosensitivity and maximal oxygen uptake in moderate hypobaric hypoxia. *Journal of Applied Physiology*. 103(4): 1221-1226, 2007.
- Ogawa T, Hayashi K, Ichinose M, Wada H, Nishiyasu T.** Metabolic response during intermittent graded sprint running in moderate hypobaric hypoxia in competitive middle-distance runners. *European Journal of Applied Physiology*. 99(1): 39-46, 2007.
- Hayashi K, Honda Y, Ogawa T, Kondo N, Nishiyasu T.** Relationship between ventilatory response and body temperature during prolonged sub-maximal exercise. *Journal of Applied Physiology*. 100(2): 414-420, 2006.
- Ogawa T, Ohba K, Nabekura Y, Nagai J, Hayashi K, Wada H, Nishiyasu T.** Intermittent short-term graded running performance in middle-distance runners in hypobaric hypoxia. *European Journal of Applied Physiology*. 94(3): 254-261, 2005.
- Hayashi K, Honda Y, Ogawa T, Wada H, Kondo N, Nishiyasu T.** Effects of brief leg cooling after moderate exercise on cardiorespiratory responses to subsequent exercise in the heat. *European Journal of Applied Physiology*. 92(4-5): 414-420, 2004.
- Ichinose M, Saito M, Ogawa T, Hayashi K, Kondo N, Nishiyasu T.** Modulation of control of muscle sympathetic nerve activity during orthostatic stress in humans. *American Journal of Physiology - Heart and Circulatory Physiology*. 287(5): H2147-H2153, 2004.
- Ichinose M, Saito M, Kitano A, Hayashi K, Kondo N, Nishiyasu T.** Modulation of arterial baroreflex dynamic response during mild orthostatic stress in humans. *Journal of Physiology*. 557(Pt 1): 321-330, 2004.