

# Akira Takamata

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

967  
citations

430442

18  
h-index

525886

27  
g-index

56  
all docs

56  
docs citations

56  
times ranked

875  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Effect of Environmental Conditions on Tear Dynamics in Soft Contact Lens Wearers. , 2004, 45, 2563.   |     | 95        |
| 2  | LPS-induced Fos expression in oxytocin and vasopressin neurons of the rat hypothalamus. Brain Research, 2000, 858, 9-18.  | 1.1 | 59        |
| 3  | Effect of Amino Acid Infusion on Central Thermoregulatory Control in Humans. Anesthesiology, 2004, 100, 634-639.  | 1.3 | 42        |
| 4  | Water and electrolyte balance in the vascular space during graded exercise in humans. Journal of Applied Physiology, 1991, 70, 2757-2762.   | 1.2 | 41        |
| 5  | Relationship of osmotic inhibition in thermoregulatory responses and sweat sodium concentration in humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R623-R629.                                  | 0.9 | 40        |
| 6  | Detection of hypothalamic activation by manganese ion contrasted T1-weighted magnetic resonance imaging in rats. Neuroscience Letters, 2002, 326, 101-104.  | 1.0 | 39        |
| 7  | Plasma hyperosmolality elevates the internal temperature threshold for active thermoregulatory vasodilation during heat stress in humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1706-R1712. | 0.9 | 37        |
| 8  | Role of plasma osmolality in the delayed onset of thermal cutaneous vasodilation during exercise in humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 275, R286-R290.                                 | 0.9 | 35        |
| 9  | Effect of an exercise-heat acclimation program on body fluid regulatory responses to dehydration in older men. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 277, R1041-R1050.                            | 0.9 | 35        |
| 10 | Effect of continuous negative-pressure breathing on skin blood flow during exercise in a hot environment. Journal of Applied Physiology, 1998, 84, 1845-1851.   | 1.2 | 34        |
| 11 | Right atrial pressure and forearm blood flow during prolonged exercise in a hot environment. Pflugers Archiv European Journal of Physiology, 1994, 426, 177-182.  | 1.3 | 32        |
| 12 | Measurement of plasma volume in rats with use of fluorescent-labeled albumin molecules. Journal of Applied Physiology, 1994, 76, 485-489.   | 1.2 | 30        |
| 13 | Influence of exercise intensity and plasma volume on active cutaneous vasodilation in humans. Medicine and Science in Sports and Exercise, 1994, 26, 209-216.   | 0.2 | 29        |
| 14 | Control of total peripheral resistance during hyperthermia in rats. Journal of Applied Physiology, 1990, 69, 1087-1092.   | 1.2 | 26        |
| 15 | Effect of acute hypoxia on vasopressin release and intravascular fluid during dynamic exercise in humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R161-R168.                                   | 0.9 | 25        |
| 16 | Acute hypoosmolality attenuates the suppression of cutaneous vasodilation with increased exercise intensity. Journal of Applied Physiology, 2005, 99, 902-908.  | 1.2 | 23        |
| 17 | Plasma hyperosmolality and arterial pressure regulation during heating in dehydrated and awake rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 275, R1703-R1711.                                      | 0.9 | 22        |
| 18 | Sequence of forebrain activation induced by intraventricular injection of hypertonic NaCl detected by Mn <sup>2+</sup> contrasted T1-weighted MRI. Autonomic Neuroscience: Basic and Clinical, 2004, 113, 43-54.                                      | 1.4 | 22        |

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|----|---|-----|-----------|
| 19 | Baroreflex modulation of peripheral vasoconstriction during progressive hypothermia in anesthetized humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R1430-R1436.                   | 0.9 | 21        |
| 20 | Mental stress induces sustained elevation of blood pressure and lipid peroxidation in postmenopausal women. <i>Life Sciences</i> , 2008, 82, 99-107.  | 2.0 | 21        |
| 21 | Right atrial pressure and ANP release during prolonged exercise in a hot environment. <i>Journal of Applied Physiology</i> , 1994, 76, 1882-1887.   | 1.2 | 18        |
| 22 | Plasma hyperosmolality augments peripheral vascular response to baroreceptor unloading during heat stress. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R432-R440.                      | 0.9 | 18        |
| 23 | Chapter 24 Thermoregulation and body fluid in hot environment. <i>Progress in Brain Research</i> , 1998, 115, 499-508.  | 0.9 | 14        |
| 24 | Upright Posture Reduces Thermogenesis and Augments Core Hypothermia. <i>Anesthesia and Analgesia</i> , 2002, 94, 1646-1651.   | 1.1 | 14        |
| 25 | Water permeability of capillaries in the subfornical organ of rats determined by Gd-DTPA enhanced 1 H magnetic resonance imaging. <i>Journal of Physiology</i> , 2002, 545, 217-228.  | 1.3 | 14        |
| 26 | S-equol Exerts Estradiol-Like Anorectic Action with Minimal Stimulation of Estrogen Receptor- $\alpha$ in Ovariectomized Rats. <i>Frontiers in Endocrinology</i> , 2017, 8, 281.  | 1.5 | 13        |
| 27 | Involvement of orexin-A neurons but not melanin-concentrating hormone neurons in the short-term regulation of food intake in rats. <i>Journal of Physiological Sciences</i> , 2014, 64, 203-211.  | 0.9 | 12        |
| 28 | Estrogen replacement enhances insulin-induced AS160 activation and improves insulin sensitivity in ovariectomized rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1296-E1304.                            | 1.8 | 12        |
| 29 | Integrative regulations of body temperature and body fluid in humans exercising in a hot environment. <i>International Journal of Biometeorology</i> , 1997, 40, 42-49.   | 1.3 | 11        |
| 30 | Effects of pCO <sub>2</sub> on the CSF Turnover Rate in Rats Monitored by Gd-DTPA Enhanced T1-Weighted Magnetic Resonance Imaging.. <i>The Japanese Journal of Physiology</i> , 2001, 51, 555-562.  | 0.9 | 11        |
| 31 | Estradiol Replacement Improves High-Fat Diet-Induced Obesity by Suppressing the Action of Ghrelin in Ovariectomized Rats. <i>Nutrients</i> , 2020, 12, 907.   | 1.7 | 11        |
| 32 | Mn <sup>2+</sup> -bicine: A low affinity chelate for manganese ion enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1005-1012.   | 1.9 | 10        |
| 33 | Effects of estrogen replacement on stress-induced cardiovascular responses via renin-angiotensin system in ovariectomized rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R898-R905. | 0.9 | 10        |
| 34 | Comparison between Tail Skin Blood Flow Measurements by Ultrasonic Doppler Flowmetry and Plethysmography during Heating in Anesthetized Rats.. <i>The Japanese Journal of Physiology</i> , 1999, 49, 121-124.                                     | 0.9 | 9         |
| 35 | Estrogen Replacement Suppresses Pressor Response and Oxidative Stress Induced by Cage-switch Stress in Ovariectomized Rats. <i>Annals of the New York Academy of Sciences</i> , 2008, 1148, 213-218.  | 1.8 | 8         |
| 36 | Chronic oestrogen replacement in ovariectomised rats attenuates food intake and augments c-Fos expression in the suprachiasmatic nucleus specifically during the light phase. <i>British Journal of Nutrition</i> , 2011, 106, 1283-1289.         | 1.2 | 8         |

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|----|--|-----|-----------|
| 37 | Blood pressure predicts endothelial function and the effects of ethinyl estradiol exposure in young women. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H925-H933.  | 1.5 | 8         |
| 38 | The effect of menstrual cycle phase on foot skin temperature during mild local cooling in young women. <i>Journal of Physiological Sciences</i> , 2019, 69, 151-157.   | 0.9 | 6         |
| 39 | Effect of Vagotomy on Cardiovascular Adjustment to Hyperthermia in Rats.. <i>The Japanese Journal of Physiology</i> , 1992, 42, 641-652.   | 0.9 | 6         |
| 40 | Role of Blood Volume in the Age-Associated Decline in Peak Oxygen Uptake in Humans.. <i>The Japanese Journal of Physiology</i> , 2001, 51, 607-612.  | 0.9 | 6         |
| 41 | Negative Pressure Breathing and the Control of Skin Blood Flow during Exercise in a Hot Environment. <i>Annals of the New York Academy of Sciences</i> , 1997, 813, 604-609.   | 1.8 | 5         |
| 42 | Involvement of central angiotensin II type 1 receptors in LPS-induced systemic vasopressin release and blood pressure regulation in rats. <i>Journal of Applied Physiology</i> , 2009, 106, 1943-1948.   | 1.2 | 5         |
| 43 | Target intensity and interval walking training in water to enhance physical fitness in middle-aged and older women: a randomised controlled study. <i>European Journal of Applied Physiology</i> , 2016, 116, 203-215.   | 1.2 | 5         |
| 44 | Mn <sup>2+</sup> -citrate and Mn <sup>2+</sup> -HIDA: intermediate-affinity chelates for manganese-enhanced MRI. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 140-146.   | 0.4 | 4         |
| 45 | Reduced Blood-to-Tissue Albumin Movement After Plasmapheresis. <i>Shock</i> , 2003, 19, 440-447.   | 1.0 | 3         |
| 46 | Estrogen replacement attenuates stress-induced pressor responses through vasorelaxation via $\beta_2$ -adrenoceptors in peripheral arteries of ovariectomized rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H213-H223. | 1.5 | 3         |
| 47 | Fluoxetine Mimics the Anorectic Action of Estrogen and Its Regulation of Circadian Feeding in Ovariectomized Female Rats. <i>Nutrients</i> , 2020, 12, 849.  | 1.7 | 3         |
| 48 | Estradiol replacement improves high-fat diet-induced insulin resistance in ovariectomized rats. <i>Physiological Reports</i> , 2022, 10, e15193.   | 0.7 | 3         |
| 49 | Endurance running exercise is an effective alternative to estradiol replacement for restoring hyperglycemia through TBC1D1/GLUT4 pathway in skeletal muscle of ovariectomized rats. <i>Journal of Physiological Sciences</i> , 2019, 69, 1029-1040.                  | 0.9 | 2         |
| 50 | Modification of thermoregulatory response to heat stress by body fluid regulation. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2012, 1, 479-489.  | 0.2 | 2         |
| 51 | Effects of Estrogen on Stress-induced Activation of Peptide Neurons in PVN of Ovariectomized Rats. <i>Annals of the New York Academy of Sciences</i> , 2008, 1148, 99-105.   | 1.8 | 1         |
| 52 | Lateral diffusion of manganese in the rat brain determined by T1 relaxation time measured by 1H MRI. <i>Journal of Physiological Sciences</i> , 2011, 61, 259-266.   | 0.9 | 1         |
| 53 | Merits of Diluted Sweat with Training on Arterial Pressure and Body Temperature Regulation in Heat Stress. , 2001, , 68-73.  |     | 1         |
| 54 | Endogenous Androgens Diminish Food Intake and Activation of Orexin A Neurons in Response to Reduced Glucose Availability in Male Rats. <i>Nutrients</i> , 2022, 14, 1235.  | 1.7 | 1         |

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| 55 | Integrative regulations of body temperature and body fluid in humans exercising in a hot environment. International Journal of Biometeorology, 1997, 40, 42-49. | 1.3 | 1         |