

Publications

SomnoSuite and PhysioSuite

SomnoSuite

1. Baldwin, Jessie, Brian Collins, Patricia G. Wolf, Kristina Martinez, Wan Shen, Chia-Chi Chuang, Wei Zhong et al. "Table grape consumption reduces adiposity and markers of hepatic lipogenesis and alters gut microbiota in butter fat-fed mice." *The Journal of Nutritional Biochemistry* (2015).
2. Bian, Fang, et al. "Differential Effects of Dexamethasone and Doxycycline on Inflammation and MMP Production in Alkali-Burned Corneas Associated with Dry Eye." *The Ocular Surface* (2016).
3. Bian, Fang, Flavia SA Pelegrino, Stephen C. Pflugfelder, Eugene A. Volpe, De-Quan Li, and Cintia S. de Paiva. "Desiccating Stress-Induced MMP Production and Activity Worsens Wound Healing in Alkali-Burned CorneasDesiccating Stress and Alkali Burn." *Investigative Ophthalmology & Visual Science* 56, no. 8 (2015): 4908-4918.
4. Damen, Frederick W., Amelia R. Adelsperger, Katherine E. Wilson, and Craig J. Goergen. "Comparison of Traditional and Integrated Digital Anesthetic Vaporizers." *Journal of the American Association for Laboratory Animal Science: JAALAS* 54, no. 6 (2015): 756-762.
5. Foote, Christopher A., Jorge A. Castorena-Gonzalez, Marius C. Staiculescu, Philip S. Clifford, Michael A. Hill, Gerald A. Meininger, and Luis A. Martinez-Lemus. "Brief serotonin exposure initiates arteriolar inward remodeling processes in vivo that involve transglutaminase activation and actin cytoskeleton reorganization." *American Journal of Physiology-Heart and Circulatory Physiology* (2015): ajpheart-00666.
6. Hernández-Reséndiz, Sauri, Francisco Correa, Wylly R. García-Niño, Mabel Buelna-Chontal, Francisco J. Roldán, Ixchel Ramírez-Camacho, Carolina Delgado-Toral et al. "Cardioprotection by curcumin post-treatment in rats with established chronic kidney disease." *Cardiovascular Drugs and Therapy* (2015): 1-10.
7. Manousiouthakis, Eleana, Monica Mendez, Madeline C. Garner, Prisca Exertier, and Takako Makita. "Venous endothelin guides sympathetic innervation of the developing mouse heart." *Nature communications* 5 (2014).
8. Shen, Di-Fei, Qing-Qing Wu, Jian Ni, Wei Deng, Cong Wei, Zhen-Hua Jia, Heng Zhou, Meng-Qiao Zhou, Zhou-Yan Bian, and Qi-Zhu Tang. "Shensongyangxin protects against

pressure overload-induced cardiac hypertrophy." *Molecular Medicine Reports*.

9. Shen, Wan, Jessie Baldwin, Brian Collins, Lindsay Hixson, Kuan-Ting Lee, Timothy Herberg, Joseph Starnes et al. "Low level of trans-10, cis-12 conjugated linoleic acid decreases adiposity and increases browning independent of inflammatory signaling in overweight Sv129 mice." *The Journal of Nutritional Biochemistry* (2015).
10. Tsukamoto, Atsushi, Kazuya Serizawa, Reiichiro Sato, Jumpei Yamazaki, and Tomo Inomata. "Vital signs monitoring during injectable and inhalant anesthesia in mice." *Experimental Animals* 64, no. 1 (2015): 57.
11. Tsukamoto, Atsushi, Mami Iimuro, SATO Reiichiro, Jumpei Yamazaki, and Tomo Inomata. "Effect of midazolam and butorphanol premedication on inhalant isoflurane anesthesia in mice." *Experimental Animals* 64, no. 2 (2015): 139.
12. Wang, Tao, Olivia Hurwitz, Steven G. Shimada, Lintao Qu, Kai Fu, Pu Zhang, Chao Ma, and Robert H. LaMotte. "Chronic Compression of the Dorsal Root Ganglion Enhances Mechanically Evoked Pain Behavior and the Activity of Cutaneous Nociceptors in Mice." *PLoS one* 10, no. 9 (2015): e0137512.
13. Zhao, Zhen, Abhay P. Sagare, Qingyi Ma, Matthew R. Halliday, Pan Kong, Cassandra Kisler, Ethan A. Winkler et al. "Central role for PICALM in amyloid- β blood-brain barrier transcytosis and clearance." *Nature neuroscience* (2015).

MouseVent

1. *Adams, Sean, and Cholawat Pacharinsak. "Mouse Anesthesia and Analgesia." *Current protocols in mouse biology* (2014): 51-63. (MouseVent used as example)
2. Cao, Zhijuan, Adithya Balasubramanian, and Sean P. Marrelli. "Pharmacologically induced hypothermia via TRPV1 channel agonism provides neuroprotection following ischemic stroke when initiated 90 min after reperfusion." *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology* 306, no. 2 (2014): R149-R156.
3. Chakrabarti, A., M. J. Novotny, L. Ireland, B. M. Waite, M. C. Seeds, and R. D. Hite. "Reduced Lung Compliance And Phospholipase-Mediated Depletion Of Phosphatidylglycerol In A Murine Ards Model." *Am J Respir Crit Care Med* 191 (2015): A2055.

4. Danziger, Zachary C., and Warren M. Grill. "Dynamics of the Sensory Response to Urethral Flow Over Multiple Time Scales in Rat." *The Journal of Physiology* (2015).
5. Leite, Sara, Sara Rodrigues, Marta Tavares-Silva, José Oliveira-Pinto, Mohamed Alaa, Mahmoud Abdellatif, Dulce Fontoura et al. "Afterload-induced diastolic dysfunction contributes to high filling pressures in experimental heart failure with preserved ejection fraction." *American Journal of Physiology-Heart and Circulatory Physiology* (2015): ajpheart-00397.
6. Ma, Chao, Hong Nie, Qunhao Gu, Parul Sikand, and Robert H. LaMotte. "In vivo responses of cutaneous C-mechanosensitive neurons in mouse to punctate chemical stimuli that elicit itch and nociceptive sensations in humans." *Journal of neurophysiology* 107, no. 1 (2012): 357-363.
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11. Philips, Prejesh, Yan Li, and Robert CG Martin II. "Low-energy DC current ablation in a mouse tumor model." In *Electroporation Protocols*, pp. 257-265. Springer New York, 2014.
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13. Shen, Di-Fei, Qing-Qing Wu, Jian Ni, Wei Deng, Cong Wei, Zhen-Hua Jia, Heng Zhou, Meng-Qiao Zhou, Zhou-Yan Bian, and Qi-Zhu Tang. "Shensongyangxin protects against

pressure overload-induced cardiac hypertrophy." *Molecular Medicine Reports*.

14. Tarantini, Stefano, Peter Hertelendy, Zsuzsanna Tucsek, M. Noa Valcarcel-Ares, Nataliya Smith, Akos Menyhart, Eszter Farkas et al. "Pharmacologically-induced neurovascular uncoupling is associated with cognitive impairment in mice." *Journal of Cerebral Blood Flow & Metabolism* (2015).
15. Toth, Peter, Zsuzsanna Tucsek, Stefano Tarantini, Danuta Sosnowska, Tripti Gautam, Matthew Mitschelen, Akos Koller, William E. Sonntag, Anna Csiszar, and Zoltan Ungvari. "IGF-1 deficiency impairs cerebral myogenic autoregulation in hypertensive mice." *Journal of Cerebral Blood Flow & Metabolism* (2014).
16. Toth, Peter, Stefano Tarantini, Zsuzsanna Tucsek, Nicole M. Ashpole, Danuta Sosnowska, Tripti Gautam, Praveen Ballabh et al. "Cardiovascular and Cerebrovascular Aging—New Mechanisms and Insights: Resveratrol treatment rescues neurovascular coupling in aged mice: role of improved cerebrovascular endothelial function and downregulation of NADPH oxidase." *American Journal of Physiology-Heart and Circulatory Physiology* 306, no. 3 (2014): H299.
17. Toth, Peter, Stefano Tarantini, Zsuzsanna Tucsek, Nicole M. Ashpole, Danuta Sosnowska, Tripti Gautam, Praveen Ballabh et al. "Resveratrol treatment rescues neurovascular coupling in aged mice: role of improved cerebrovascular endothelial function and downregulation of NADPH oxidase." *American Journal of Physiology-Heart and Circulatory Physiology* 306, no. 3 (2014): H299-H308.
18. Tucsek, Zsuzsanna, Peter Toth, Stefano Tarantini, Danuta Sosnowska, Tripti Gautam, Junie P. Warrington, Cory B. Giles et al. "Aging Exacerbates Obesity-induced Cerebrovascular Rarefaction, Neurovascular Uncoupling, and Cognitive Decline in Mice." *The Journals of Gerontology Series A: Biological Sciences and Medical Sciences* (2014): gluo80.
19. Wang, Xuebing, Shaolin Ma, Yang Liu, Wei Xu, and Zhanxia Li. "Effects and Mechanism Analysis of Combined Infusion by Levosimendan and Vasopressin on Acute Lung Injury in Rats Septic Shock." *Cell biochemistry and biophysics* (2014): 1-7.
20. Zhang, Tianhe C., John J. Janik, Ryan V. Peters, Gang Chen, Ru-Rong Ji, and Warren M. Grill. "Spinal Sensory Projection Neuron Responses to Spinal Cord Stimulation Are Mediated by Circuits Beyond Gate Control." *Journal of neurophysiology* (2015): jn-00147.

21. Zu, HongXu, QingHua Li, and PeiXin Huang. "Expression of Treg Subsets on Intestinal T Cell Immunity and Endotoxin Translocation in Porcine Sepsis After Severe Burns." *Cell biochemistry and biophysics* (2014): 1-6.

RightTemp

1. Abdellatif, Mahmoud, et al. "Spectral transfer function analysis of respiratory hemodynamic fluctuations predicts end-diastolic stiffness in preserved ejection fraction heart failure." *American Journal of Physiology-Heart and Circulatory Physiology* 310.1 (2016): H4-H13.
2. *Adams, Sean, and Cholawat Pacharinsak. "Mouse Anesthesia and Analgesia." *Current protocols in mouse biology* (2014): 51-63. (RightTemp used as example)
3. Bing, Chenchen, Michelle Ladouceur-Wodzak, Clinton R. Wanner, John M. Shelton, James A. Richardson, and Rajiv Chopra. "Trans-cranial opening of the blood-brain barrier in targeted regions using a stereotaxic brain atlas and focused ultrasound energy." *Journal of therapeutic ultrasound* 2, no. 1 (2014): 13.
4. Buchta, Jessica N., Bethany S. Zarndt, Lindsey S. Garver, Tobin Rowland, Meng Shi, Silas A. Davidson, and Edgar D. Rowton. "Blood-Feeding Behaviors of *Anopheles stephensi* but not *Phlebotomus papatasi* are Influenced by Actively Warming Guinea Pigs (*Cavia porcellus*) Under General Anesthesia 1." *Journal of the American Mosquito Control Association* 31, no. 2 (2015): 149-154.
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trait anxiety male rats." *Neuroscience* 270 (2014): 76-87.65-11475.

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39. Zhang, Tianhe C., John J. Janik, Ryan V. Peters, Gang Chen, Ru-Rong Ji, and Warren M. Grill. "Spinal Sensory Projection Neuron Responses to Spinal Cord Stimulation Are Mediated by Circuits Beyond Gate Control." *Journal of neurophysiology* (2015): jn-00147.

MouseStat

1. Abdellatif, Mahmoud, et al. "Spectral transfer function analysis of respiratory hemodynamic fluctuations predicts end-diastolic stiffness in preserved ejection fraction heart failure." *American Journal of Physiology-Heart and Circulatory Physiology* 310.1 (2016): H4-H13.
2. *Adams, Sean, and Cholawat Pacharinsak. "Mouse Anesthesia and Analgesia." *Current protocols in mouse biology* (2014): 51-63. (MouseStat used as example)
3. Bing, Chenchen, Michelle Ladouceur-Wodzak, Clinton R. Wanner, John M. Shelton, James A. Richardson, and Rajiv Chopra. "Trans-cranial opening of the blood-brain barrier in targeted regions using a stereotaxic brain atlas and focused ultrasound energy."

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