

Steven Romero, PhD
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Area of Expertise

My laboratory has two broad research themes.

The first research theme centers on investigating how the human vascular system adjusts and adapts to exercise and environmental stress in healthy and diseased populations.

The second research theme centers on investigating the vascular and functional maladaptations that accompany various diseases (e.g. hypertension, aging, peripheral arterial disease), in addition to identifying novel therapies that may mitigate such detrimental changes.

Qualifications

PhD in Human Physiology, University of Oregon

BS in Kinesiology, University of Texas at San Antonio

MS in Kinesiology, University of Texas at San Antonio

Recent Publications

Global REACH 2018: the adaptive phenotype to life with chronic mountain sickness and polycythaemia

Hansen, A. B., Morales, G., Amin, S. B., Simpson, L. L., Hofstaetter, F., Anholm, J. D., Gasho, C., Stemberge, M., Dawkins, T. G., Tymko, M. M., Ainslie, P. N., Villafuerte, F., Romero, S. A., Hearon, C. M. & Lawley, J. S., 1 Sep 2021, In: *Journal of Physiology*. 599, 17, p. 4021-4044 24 p.

Influence of ischemia-reperfusion injury on endothelial function in men and women with similar serum estradiol concentrations

Lalande, S., Hemingway, H. W., Jarrard, C. P., Moore, A. M., Olivencia-Yurvati, A. H., Richey, R. E. & Romero, S. A., Aug 2021, In: *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*. 321, 2, p. R273-R278

Whole body passive heating versus dynamic lower body exercise: A comparison of peripheral hemodynamic profiles

Amin, S. B., Hansen, A. B., Mugele, H., Willmer, F., Gross, F., Reimeir, B., Cornwell, W. K., Simpson, L. L., Moore, J. P., Romero, S. A. & Lawley, J. S., Jan 2021, In: *Journal of Applied Physiology*. 130, 1, p. 160-171 12 p.

Effect of endoplasmic reticulum stress on endothelial ischemia-reperfusion injury in humans

Hemingway, H. W., Moore, A. M., Olivencia-Yurvati, A. H. & Romero, S. A., 4 Dec 2020, In: *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*. 319, 6, p. R666-R672

Exercise Training Improves Microvascular Function in Burn Injury Survivors

Romero, S. A., Morales, G., Jaffery, M. F., Huang, M. U., Engelland, R. E., Cramer, M. N. & Crandall, C. G., 1 Nov 2020, In: *Medicine and Science in Sports and Exercise*. 52, 11, p. 2430-2436 7 p.

The benefits of an unsupervised exercise program in persons with well-healed burn injuries within the International Classification of Functioning, Disability and Health (ICF)

Huang, M., Morales, G., Romero, S. A., Jaffery, M. F., Cramer, M. N., Petric, J. K., Nabasny, A. D. & Crandall, C. G., Sep 2020, In: *Burns*. 46, 6, p. 1280-1288 9 p.

Mechanisms of sympathetic restraint in human skeletal muscle during exercise: Role of α -adrenergic and nonadrenergic mechanisms

Hansen, A. B., Morales, G., Romero, S. A., Gasho, C., Tymko, M. M., Ainslie, P. N., Hofstatter, F., Rainer, S. L., Lawley, J. S. & Hearon, C. M., Jul 2020, In: *American Journal of Physiology - Heart and Circulatory Physiology*. 319, 1, p. H192-H202

Increasing body temperature with dynamic exercise and/or by wallowing/bathing in hot water or saunas: Effects on cerebral blood flow

Raven, P. B. & Romero, S. A., 1 Apr 2020, In: Journal of Physiology. 598, 8, p. 1421-1422 2 p.

Neural control of blood pressure is altered following isolated leg heating in aged humans

Engelland, R. E., Hemingway, H. W., Tomasco, O. G., Olivencia-Yurvati, A. H. & Romero, S. A., Apr 2020, In: American Journal of Physiology - Heart and Circulatory Physiology. 318, 4, p. H976-H984

Acute lower leg hot water immersion protects macrovascular dilator function following ischaemia–reperfusion injury in humans

Engelland, R. E., Hemingway, H. W., Tomasco, O. G., Olivencia-Yurvati, A. H. & Romero, S. A., 1 Feb 2020, In: Experimental physiology. 105, 2, p. 302-311 10 p.