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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

### **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.

### **Cell-free mitochondrial DNA increases in maternal circulation during healthy pregnancy: A prospective, longitudinal study**

Cushen, S. C., Sprouse, M. L., Blessing, A., Sun, J., Jarvis, S. S., Okada, Y., Fu, Q., Romero, S. A., Phillips, N. R. & Goulopoulou, S., Feb 2020, In : American Journal of Physiology - Regulatory Integrative and Comparative Physiology. 318, 2, p. R445-R452

### **Progressive exercise training improves maximal aerobic capacity in individuals with well-healed burn injuries**

Romero, S. A., Moralez, G., Jaffery, M. F., Huang, M., Cramer, M. N., Romain, N., Kouda, K., Haller, R. G. & Crandall, C. G., 1 Oct 2019, In : American journal of physiology. Regulatory, integrative and comparative physiology. 317, 4, p. R563-R570

### **A free-choice high-fat, high-sucrose diet induces hyperphagia, obesity, and cardiovascular dysfunction in female cycling and pregnant rats**

Ahmed, H., Hannan, J. L., Apolzan, J. W., Osikoya, O., Cushen, S. C., Romero, S. A. & Goulopoulou, S., 1 May 2019, In : American journal of physiology. Regulatory, integrative and comparative physiology. 316, 5, p. R472-R485

### **Cardiac structure and function in well-healed burn survivors**

Samuel, T. J., Nelson, M. D., Nasirian, A., Jaffery, M., Moralez, G., Romero, S. A., Cramer, M. N., Huang, M., Kouda, K., Hieda, M., Sarma, S. & Crandall, C. G., 20 Feb 2019, In : Journal of Burn Care and Research. 40, 2, p. 235-241 7 p.

**The shear complexity of insulin-stimulated vasodilatation**

Lalande, S. & Romero, S. A., 1 Jan 2019, In : Journal of Physiology. 597, 1, 1 p.

**Vasodilator function is impaired in burn injury survivors**

Romero, S. A., Moralez, G., Jaffery, M. F., Huang, M. & Crandall, C. G., 27 Nov 2018, In : American Journal of Physiology - Regulatory Integrative and Comparative Physiology. 315, 5, p. R1054-R1060

**Augmented venoarteriolar response with ageing is associated with morning blood pressure surge**

Yoo, J. K., Sun, D. D., Parker, R. S., Urey, M. A., Romero, S. A., Lawley, J. S., Sarma, S., Vongpatanasin, W., Crandall, C. G. & Fu, Q., 1 Nov 2018, In : Experimental physiology. 103, 11, p. 1448-1455 8 p.