

Research Publications

Refereed Papers:

1. Gilmore JP, Davis MJ, Gibbs GE: Influence of cystic fibrotic and heterozygous serum on rat jejunum. **Proc Soc Exp Biol & Med** 157: 70-74, 1978.
2. Davis MJ, Joyner WL, Gilmore JP: Microvascular pressure distribution and responses of pulmonary allografts and cheek pouch arterioles in the hamster to oxygen. **Circ Res** 49: 125-132, 1981.
3. Davis MJ, Gilmore JP, Joyner WL: Responses of pulmonary allograft and cheek pouch arterioles in the hamster to alterations in extravascular pressure in different oxygen environments. **Circ Res** 49: 133-140, 1981.
4. Joyner WL, Davis MJ, Gilmore JP: Intravascular pressure distribution and dimensional analysis of microvessels in hamsters with renovascular hypertension. **Microvasc Res** 22: 190-198, 1981.
5. Gore RW, Davis MJ: Mechanics of smooth muscle in isolated single microvessels. **Annals of Biomedical Engineering** 12: 511-520, 1984.
6. Davis MJ, Gore RW: A new preparation for microcirculatory studies of the hamster cheek pouch. **Am J Physiol** 248: H143-H146, 1985.
7. Davis MJ, Gore RW: Capillary pressures in rat intestinal muscle and mucosal villi during venous pressure elevation. **Am J Physiol** 249: H174-H187, 1985.
8. Davis MJ, Ferrer PN, Gore RW: Vascular anatomy and hydrostatic pressure profile in the hamster cheek pouch. **Am J Physiol** 250: H291-H303, 1986.
9. Davis MJ, Gore RW: Pressure distribution in the microvascular network of the hamster cheek pouch. In: **Microvascular Networks—Theoretical and Experimental Studies**. Eds. Popel AS, and Johnson PC, Karger (Basel), 1986.
10. Joyner WL, Davis MJ: Pressure profile in the microcirculation and its control. **Federation Proceedings** 46: 266-269, 1987.
11. Davis MJ: Changes in arteriolar wall tension and wall stress during responses to altered perfusion pressure. In: **Microcirculation—An Update**. Ed. by Tsuchiya M, Asano M, Misha Y, Oda M., Excerpta Medica Series (Amsterdam), Vol. 1, pp. 239-240, 1987.
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14. Davis MJ: Microvascular control of capillary pressure during increases in local arterial and venous pressure. **Am J Physiol** 254: H772-H784, 1988.
15. Davis MJ: Control of bat wing capillary pressure and blood flow during reduced perfusion pressure. **Am J Physiol** 255: H1114-H1129, 1988.

16. Kuo L, Davis MJ, Chilian WM: Myogenic activity in isolated subepicardial and subendocardial coronary arterioles. **Am J Physiol** 255: H1558-H1562, 1988.
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18. Davis MJ, Sikes PJ: A rate-sensitive component to the myogenic response is absent from bat wing arterioles. **Am J Physiol** 256: H32-H40, 1989.
19. Davis MJ, Gore RW: Length-tension relationship of vascular smooth muscle in single arterioles. **Am J Physiol** 256: H630-H640, 1989.
20. Hill MA, Davis MJ, Meininger GA: Cyclooxygenase inhibition potentiates myogenic activity in skeletal muscle arterioles. **Am J Physiol** 258: H127-H133, 1990.
21. Kuo L, Chilian WM, Davis MJ: Coronary arteriolar myogenic response is independent of endothelium. **Circ Res** 66: 860-866, 1990.
22. Kuo L, Davis MJ, Chilian WM: Endothelium-dependent, flow-induced dilation of isolated coronary arterioles. **Am J Physiol** 259: H1063-H1070, 1990.
23. Davis MJ, Sikes PJ: Myogenic responses of isolated arterioles: test for a rate-sensitive mechanism. **Am J Physiol** 259: H1890-H1900, 1990.
24. Falcone JC, Davis MJ, Meininger GA: Endothelial independence of myogenic response in isolated skeletal muscle arterioles. **Am J Physiol** 260: H130-H135, 1991.
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Jamalian S, Jafarnejad M, Gashev AA, Zawieja DC, Moore JE Jr*, Davis MJ*: Hydrostatic suction pressures generated by active pumping of collecting lymphatic vessels (**J of Physiol**) * equal contributions

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McKaskill C, Davis MJ, Moore JE Jr, Bertram C: Comparison of measured and predicted lymphatic valve properties during ramp-wise elevations in outflow pressure (**J Biomech Eng**)