Roger H. Adamson, Ph.D.

Clinical Interests

Roger H. Adamson's projects concern mechanisms that control paracellular permeability in peripheral microvessels. Current methods include cannulation (tube insertion) and measurement of permeability of single microvessels in the mesentery (abdominal organ lining) of rats, mice and frogs. In addition to transport measurements, he visualizes changes in endothelial cytoskeletal and endothelial adhesion proteins using confocal microscopy and transmission electron microscopy.

Title

Associate Researcher

Specialty

Human Physiology

Department

Physiology and Membrane Biology

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Education

B.A., University of Kansas, Lawrence, Kansas, 1977

Fellowships

St. Mary's Hospital Medical School, London, 1987-88
Yale University School of Medicine, New Haven, Connecticut, 1985-87

Select Recent Publications

Adamson RH, Curry FE, Adamson G, Liu B, Jiang Y, Aktories K, Barth H, Daigeler A, Golenhofen N, Ness W, and Drenckhahn D. Rho and rho kinase modulation of barrier properties: cultured endothelial cells and intact microvessels of rats and mice. Journal of Physiology (London) 2002; 539(Pt 1):295-308.

Hu, X., Adamson RH, Liu B, Curry FE and Weinbaum S. Starling forces that oppose filtration after tissue oncotic pressure is increased. American Journal of Physiology 2000; 279:H1724-H1736.

Adamson RH, Liu B, Nilson-Fry G, Rubin LL and Curry FE. Microvascular permeability and number of tight junctions are modulated by cAMP. American Journal of Physiology 1998; 274: H1885-H1894.

Fu B, Adamson RH and Curry FE. Test of a two pathway model for small solute exchange across capillary wall. American Journal of Physiology 1998; 274:H2062-H2073.

Fu B, Curry FE, Adamson RH, and Weinbaum S. A model for interpreting the tracer labeling of interendothelial clefts. Annals of Biomedical Engineering, 1997; 25:375-397.

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