



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

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.

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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.

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