Jonathan Widdicombe, Ph.D.

Clinical Interests Jonathan Widdicombe's research interests include ion and water transport across airway epithelia, and cystic fibrosis.

Title Professor

Specialty Human Physiology

Department Physiology and Membrane Biology

Education B.A., Oxford University, Oxford, England, 1971

Fellowships University of Alberta, Alberta, 1975-76
University of California, San Francisco, California, 1976-79

Select Recent Publications

Evans DJ, Matsumoto PS, Widdicombe JH, Li-Yun C, Maminishkis AA, and Miller SS. Pseudomonas aeruginosa induces changes in fluid transport across airway epithelia. American Journal of Physiology 1998; 275: C1284-C1290

Lee MC, Penland CM, Widdicombe JH, and Wine JJ. 1998. Evidence that Calu-3 human airway cells secrete bicarbonate. American Journal of Physiology 1998; 274: L450-L453.

Uyekubo SN, Fischer H, Maminishkis A, Illek B, Miller SS, and Widdicombe JH. Cyclic AMP-dependent absorption of chloride across airway epithelium. American Journal of Physiology 1998; 275: L1219-L1227.

Zabner J, Smith JJ, Karp PH, Widdicombe JH, and Welsh MJ. Loss of CFTR chloride channels decreases salt absorption by cystic fibrosis airway epithelia. Mol. Cell 1998; 2: 397-403.

Zhang L, Wang D, Fischer H, Fan P-D, Widdicombe JH, Kan YW, and Dong J-Y. 1998. Efficient expression of CFTR function with adeno-associated virus vectors that carry shortened CFTR genes. Proceedings of the National Academy of Sciences USA 1998; 95: 1015

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