**John W. Mills**

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**EDUCATION**

University of Rhode Island, Kingston, RI **B.S.** Zoology 1969

Brown University, Providence, RI **Ph.D**. Biology 1973

**ACADEMIC EXPERIENCE**

2018-2020 President, Mount Aloysius College

2017--2018 ***Interim* Provost,** Mount Aloysius College

2004--2014 **President,** Paul Smith’s College

2003-2004 **Provost,** Paul Smith’s College

2000-2002 **Vice President for Academic Affairs**, Paul Smith’s College

1999-2000 **Professor**, Division of Health Sciences, Clarkson University

1991-1999 **Professor**, Department of Biology, Clarkson University

1997 **Visiting Professor,** August Krogh Institute, University of Copenhagen

1995-1997 **Visiting Scientist**, Trudeau Institute, Saranac Lake, NY

1986-1991 **Professor**, Department of Anatomy, Dartmouth Medical School.

1982-1986 **Associate Professor**, Dept. of Anatomy, Dartmouth Medical School.

1981-1982 **Visiting Scientist**, Dept. of Physiology, Univ. of Munich, West Germany.

1980-1985 **Associate Biologist**, Dept. of Medicine, Massachusetts General Hospital.

1980-1982 **Assistant Professor**, Harvard Medical School; and **Assistant Professor**,

Whitaker Health Sciences, Massachusetts Institute of Technology.

1978-1982 **Director**, Laboratory of Renal Biophysics, Department of Medicine,

Massachusetts General Hospital.

1975-1978 **Assistant Biologist**, Laboratory of Renal Biophysics, Massachusetts

General Hospital; and Instructor, Department of Anatomy, Harvard

Medical School.

1973-1975 **Instructor**, Department of Anatomy, Temple University School of

Medicine.

**ADMINISTRATIVE EXPERIENCE**

June 2020 **Higher Education Consultant**, Dutcher LLC,.

2018-2020 **President**, Mount Aloysius College

2017-2018 **Interim Provost**, Mount Aloysius College

2004-2014 **President**, Paul Smith's College

2003 **Provost**, Paul Smith’s College

2000-2003 **Vice President for Academic Affairs**, Paul Smith’s College

Experience prior to 2000 can be provided upon request.

**COMMUNITY AND CIVIC POSITIONS**

2001-2012 Board of Directors, Saranac Lake Area Chamber of Commerce

2008-2010 President, Saranac Lake Area Chamber of Commerce

2004-present Board of Directors, Countess Alicia Spaulding-Paolozzi Foundation

2003-2016 Board of Directors, Adirondack Lakes Survey Corporation

2012-2016 Chairman, Adirondack Lakes Survey Corporation

2004-2011 Board of Directors, Adirondack Economic Development Corporation

2007-2010 DEC Commissioner’s Committee on Adirondack Economy

2007-2017 Member, College for Every Student Foundation Strategic Task Force

2009-2010 Member, Second Nature’s National Transportation Policy Task Force

2011-2014 Member, Committee on Higher Education’s Role in Adapting to Climate

Disruption, American College and University President’s Climate

Commitment

2013-2014 Board of Trustees, Council of Independent Colleges and Universities

(cIcu), Albany, NY

2013-2014 Member, Sub-committee on Financial Aid, National Association of

Independent Colleges and Universities

2004-2017 Board of Directors, Franklin County NY Empire Zone

2013-2015 Steering Committee, Point Positive, Angel investment group for the Adirondack North Country

2018-2020 Executive Roundtable, Blair County, Chamber of Commerce

2019-2020 Board of Directors, Cambria County Chamber of Commerce

**TEACHING EXPERIENCE-major courses**

Details can be provided.

**RESEARCH SUPPORT WHILE ACTIVE FACULTY MEMBER**

Details can be provided.

**EDITORIAL BOARDS:**

1984-1989 Journal of Histochemistry and Cytochemistry.

1985-1987 Molecular Physiology.

**HONORS**

1999 Clarkson University Student Association-Outstanding Teacher Award

2008 College For Every Student – Mario Pena Award, minority recruitment

2012 Adirondack Park Institute – Adirondack Leadership Award

2020 PA Business Central top 100 people

**PERSONAL**

DATE OF BIRTH: June 14, 1947

PLACE OF BIRTH: Fall River, Massachusetts

**PUBLICATIONS**

**Articles in Peer-Reviewed Journals**:

1. Mills, J.W. and Ernst, S.A.: Localization of sodium pump sites in frog urinary bladder. Biochem. et Biophys. Acta. 375: 268-273, 1975.

2. Mills, J.W., Ernst, S.A. and DiBona, D.R.: Localization of Na+-pump sites in the frog skin. J. Cell Biol. 73: 88-110, 1977.

3. Ernst, S.A. and Mills, J.W.: Basolateral plasma membrane localization of ouabain-sensitive sodium transport sites in the secretory epithelium of the avian salt gland. J. Cell Biol. 73: 74-94, 1977.

4. Mills, J.W. and DiBona, D.R.: On the distribution of Na+-pump sites in the frog skin. J. Cell Biol. 75: 968-976, 1977.

5. Mills, J.W. and DiBona, D.R.: Distribution of Na+-pump sites in the frog gallbladder. Nature 271: 273-275, 1978.

6. Mills, J.W. and Malick, L.E.: The mucosal surface morphology of the toad urinary bladder: Scanning electron microscopic study of the natriferic and hydro-osmotic response to vasopressin. J. Cell Biol. 77: 598-610, 1978.

7. DiBona, D.R. and Mills, J.W.: Distribution of Na+-pump sites in transporting epithelia. Fed. Proc. 38: 134-143, 1979.

8. Mills, J.W., Macknight, A.D.C., Dayer, J.M. , Ausiello, D.A.: Localization of 3H-ouabain sensitive Na+-pump sites in cultured pig kidney epithelial cells (LLC-PK1). Amer. J. Physiol. 236: C157-C162, 1979.

9. Masland, R.H. and Mills, J.W.: Autoradiographic localization of acetylcholine in the rabbit retina. J. Cell Biol. 83: 159-178, 1979.

10. Masland, R.H. and Mills, J.W.: Choline accumulation by photoreceptor cells of the rabbit retina. Proc. Natl. Acad. Sci. 77: 1671-1675, 1980.

11. Kreisberg, J.I., Mills, J.W., Jarrell, J.A., Rabito, C.A. and Leaf, A.: Protection of cultured renal tubular epithelial cells from anoxic cell swelling and cell death. Proc. Natl. Acad. Sci. 77: 5445-5447, 1980.

12. Hayden, S.A., Mills, J.W. and Masland, R.A.: Acetylcholine synthesis by displaced amacrine cells. Science 210: 435-447, 1980.

13. Ernst, S.A. and Mills, J.W.: Autoradiographic localization of 3H-ouabain-sensitive sodium pump sites in ion transporting epithelia. J. Histochem, Cytochem. 28: 72-77, 1980.

14. Mills, J.W.: Autoradiography of diffusable substances: verification of the sites of localization by correlated physiological, biochemical and pharmacological studies. J. Histochem. Cytochem. 29: 136-142, 1981.

15. Jarrell, J.A., King, J.B. and Mills, J.W.: A scanning micropipette molecule microscope. Science 211: 277-279, 1981.

16. Mills, J.W., Macknight, A.D.C., Jarrell, J.A., Dayer, J.M. and Ausiello, D.A.: Interaction of ouabain with the Na+-pump in intact epithelial cells. J. Cell Biol. 88: 637-643, 1981.

17. Bobrycki, V.A., Mills, J.W., Macknight, A.D.C. and DiBona, D.R.: Structural responses to voltage clamping in the toad urinary bladder. I. The principle role of granular cells in the active transport of sodium. J. Membrane Biol. 60: 21-33, 1981.

18. DiBona, D.R., Sherman, B., Bobrycki, V.A., Mills, J.W. and Macknight, A.D.C.: Structural responses to voltage clamping in the toad urinary bladder. II. Granular cells and the natriferic action of vasopressin. J. Membrane Biol. 60: 35-44, 1981.

19. Mills, J.W. and Quinton, P.M.: Formation of stimulus-induced vacuoles from secretory granules in tracheal submucosal glands of the cat. Amer. J. Physiol. 241: C218-C245, 1981.

20. Jarrell, J.A., Mills, J.W. and King, J.G. : A mass spectrometer to measure transepithelial unidirectional labeled water fluxes. Amer. J. Physiol. 241: C86-C88, 1981.

21. Thompson, I.G. and Mills, J.W.: Isoproterenol-induced current changes in glands of frog skin. Amer. J. Physiol. 241: C250-C257, 1981.

22. Hildebrandt-Stark, H., Mills, J.W. and Fawcett, D.: Localization of 2H-[1-2,4 dichlorobenyl]1H-indayole-3-carboxcyclic acid - [3H-AF1890] in rats testis using freeze-drying autoradiography. Biology of Reproduction 27: 495, 1982.

23. Thompson, I.G. and Mills, J.W.: Chloride transport in the gland of the frog skin. Amer. J. Physiol. 244: C221-C226, 1983.

24. Mills, J.W. and Prum, B.: Morphology of the exocrine gland of the frog skin. Am. J. Anat. 171: 91-126, 1984.

25. Masland, R.H., Mills, J.W. and Hayden, S.A.: Acetylcholine synthesizing amacrine cells: Identification and selective staining using autoradiography and fluorescent markers. Proc., Royal Society of London 223: 79-100, 1984.

26. Masland, R.H., Mills, J.W. and Cassidy, C.: The functions of acetylcholine in the rabbit retina. Proc., Royal Society of London 223: 121-139, 1984.

27. Rapaport, J., Mills, J.W., Franki, N., Church, H.H. and Hays, R.M.: Autoradiographic studies of solute transport across the toad urinary bladder. Kidney Int. 27: 726-730, 1985.

28. Mills, J.W. and Skiest, D.F.: Role of cAMP and the cytoskeleton in volume control in MDCK cells. Mol. Physiol. 8: 247-262, 1985.

29. Mills, J.W., Thurau, K., Doerge, A. and Rick, R.: Electron microprobe analysis of intracellular electrolytes in resting and isoproterenol-stimulated exocrine glands of the frog skin. J. Membrane Biol. 86: 211-220, 1985.

30. Mills, J.W.: Ion transport across the exocrine glands of the frog skin. Pflugers Archiv. 405: 544-549, 1985.

31. Mills, J.W. and Lubin, M. Effect of cAMP on volume and cytoskeleton of MDCK cells. Amer. J. Physiol. 250: C319-C324, 1986.

32. Mills, J.W., Horster, M. and Wilson, P.: Bleb formation during anoxia is not a prerequisite for eventual cell death in renal tubule cells. Cell Biol. Internatl. Rep. 10: 11-17, 1986.

33. Robinson, D.H. and Mills, J.W.: Ouabain binding in tadpole ventral skin. I. Kinetics and effect on intracellular ions. Amer. J. Physiol. 253: R402-R409, 1987.

34. Robinson, D.H. and Mills, J.W.: Ouabain binding in tadpole ventral skin. II. Localization of Na pump sites. Amer. J. Physiol. 253: R410-R417, 1987.

35. Allen, J.C. and Mills, J.W.: Two lines of MDCK epithelial cells with different volume and ion responses to calcium ionophore A23187. In Vitro 24: 588-592, 1988.

36. Nattie, E.E., Mills, J.W., Ou, L.C. and St. John, W.M.: Kainic acid on the rostral ventrolateral medulla inhibits phrenic output and CO2 sensitivity. J. Appl Phys. 65: l524-l534, l988.

37. Nattie, E.E., Mills, J.W. and Ou, L.C.: Pirenzepine prevents diethyl pyrocarbonate inhibition of central CO2 sensitivity. J. Appl. Physiol. 65: 1962-1966, 1988.

38. Kennedy, S.M., Mills, J.W. and Friedman, P.A.: Stimulation by PTH of calcium absorption in confluent Madin-Darby Canine Kidney cells. J. Cell Physiol. 139: 83-92, 1989.

39. Feldman, G.M., Mills, J.W., Ziyadeh, F.N., Booz, G.W. and Kleinzeller, A.: Propionate induces cell swelling and K+ accumulation in shark rectal gland. Amer. J. Phys., 257: C377-C384, 1989.

40. Kleinzeller, A. and Mills, J.W.: K+-induced swelling of the dogfish shark (Squalus acanthias) rectal gland cells is associated with changes of the cytoskeleton. Biochim. Biophys. Acta. 1014: 40-52, 1989.

41. Mills, J.W. and Ferm, V.F.: Effect of cadmium on F-actin and microtubules of Madin-Darby Canine Kidney Cells. Tox. Appl. Pharm. 101: 245-254, 1989.

42. Devlin, D.J., Mills, J.W., and Smith, R.P. : Histochemical localization of rhodanese activity in rat liver and skeletal muscle. Tox. Appl. Pharmacol. 97: 247-255, 1989.

43. Albrecht, D.L. , J.W. Mills, R.J. Noelle: Membrane immunoglobulin-cytoskeletal interactions. III. Receptor crosslinking results in the formation of extensive filamentous arrays of vimentin. J. Immunol. 144: 3251-3256, 1990.

44. Kleinzeller, A., G.W. Booz, J.W. Mills, F.N. Ziyadeh. pCMBS-induced swelling of the dogfish (Squalus acanthias) rectal gland cells: role of the (Na,K)-ATPase and the cytoskeleton. Biochim. Biophys. Acta: 1025: 21-31, 1990.

45. Woodford, S. L. and J.W. Mills. Anoxia decreases phagocytosis and ATP levels in pulmonary alveolar macrophages. Am. J. Resp. Cell &Mol Biol. 6: 326-334, 1992

46. Ziyadeh, F.N., J.W. Mills, A. Kleinzeller. Hypotonicity and cell volume regulation in shark rectal gland: role of organic osmolytes and F-actin. Am. J. Physiol. 262:F468-479. 1992

47. Mills, J. W. J.-H. Zhou, L. Cardoza, V.H. Ferm. Zinc alters actin filaments in Madin-Darby canine kidney cells. Tox. Appl. Pharmacol. 116:92-100. 1992

48. Chen, W.C., J.W. Mills, A.G. Harmsen. Development and resolution of *Pneumocystis carinii* pneumonia in severe combined immunodeficient mice: a morphological study of host inflammatory responses. Int. J. Path. 73:709-720. 1992

49. Mills, J.W., E.M. Schwiebert, B.A. Stanton. Evidence for the role of actin filaments in regulating cell swelling. J. Exp. Zool. 268:111-120. 1994

50. Schwiebert, E.M., J.W. Mills, B.A. Stanton, . The actin-based cytoskeleton regulates a chloride channel and cell volume in a renal cortical collecting duct cell line. J. Biol. Chem. 265:7725-7728. 1994.

51. Mills, J.W. Oral presentations in a physiology laboratory as a means to improve writing skills. Adv. Physiology Educ. 17:S47-S48. 1997

52. Pedersen, S.F., J.W.Mills, E.K. Hoffmann.. Role of the F-actin cytoskeleton in the RVD and RVI processes in Ehrlich ascites tumor cells. Exp. Cell Res. 252:63-74. 1999

53. Mills, J.W., S.F. Pedersen, P.S. Walmod, E.K. Hoffman. Effect of cytochalasins on F-actin and morphology of Ehrlich ascites tumor cells. Exp. Cell Res. 261:209-219. 2000.

54. Mills, J. W., L. Ryan, R. LaCourse, R. J. North. Extensive Mycobacterium bovis BCG infection of liver parenchymal cells in immunocompromised mice. Infect Immun. 69: 3175-3180. 2001.

**Book Chapters/Reviews/Symposia Volumes:**

B1. Masland, R.H. and Mills, J.W.: Aspects of choline metabolism in photo-receptor cells. In: **Effect of Constant Light on Visual Processes.** Williams, T.P., Baker, B.N. (eds.). Baker, New York, pp. 433-443, 1979.

B2. Mills, J.W. and DiBona, D.R.: Relevance of the distribution of Na+-pump sites to models of epithelial transport. In: **Current Topics in Membranes and Transport. Vol. 13.** Boulpaep, E.E. (ed.). Academic Press, New York, pp. 387-400, 1981.

B3. Leaf, A., Mills, J.W., Cheung, J. and Bonventre, J.: Nature of the cellular insult in acute renal failure. In: **Pathophysiology of acute renal failure.** Chapter 21. Brenner, B. (ed.). Academic Press, New York, 1983.

B4. Benos, D.J., Balaban, R.S., Biggers, J.D., Mills, J.W. and Overstrom, E.W.: Developmental aspects of sodium dependent transport processes of preimplantation rabbit embryos. In: **Regulation and Development of Membrane Transport Process. Chapter 14.** Graves, J.W. (ed.). John Wiley and Sons, 1985.

B5. Allen, J.C., Coffey, A.K. and Mills, J.W.: Involvement of cytoskeletal organization and NA/H exchange in dibutyryl cyclic AMP induced alterations of MDCK cell volume. In: **Symposium on Brush Border Membrane and Sodium-Coupled Transport.** F. Alvarado (ed.). Elsevier Science Publishers, Amsterdam. pp. 415-419, 1986

B6. Mills, J.W.: The Cell Cytoskeleton: Its Role in Volume Control. In: **Current Topics in Membranes and Transport.** Vol. 30. Gilles, R., Kleinzeller, A. and Boles, L. (eds.). Academic Press, New York, pp 75-101, 1987.

B7. Mills, J.W., Schwiebert, E.S. and Stanton, B. Cytoskeleton and Cell Volume Regulation. In: **Cell Volume Regulation.** K. Strange ed. CRC Press. Chap. 14:241-258. 1993

B8. Mills, J.W., E. Schwiebert, and Stanton, B.A., The cytoskeleton and membrane transport. **Curr. Opin. Nephrol. Hyper.** 3:529-534. 1994

B9. Mills, J.W. & L. Mandel. Role of the cytoskeleton in regulating membrane transport. **FASEB J.** 8:1161-1165, 1994

B10. Mills, J.W., The cytoskeleton and epithelial function. Chap 13. in: **Epithelial transport: A Guide to Methods and Experimental Analysis**, ed. Wills, N., S. Lewis & L. Reuss. Chapman & Hall, NY, 1996

B11. Mills, J.W. and M.H. Roberts. 1998. Employing multiple learning strategies in a large introductory Biology class. **5th Annual Leading Edge Technologies Symposium**

B12. Hoffmann, E.K. and J.W.Mills. 1999. Membrane events involved in volume regulation. Chap. 6 In: **Current Topics In Membranes** 48:123-196.

B13. Pedersen, S.F. E.K. Hoffman, J.W. Mills. The cytoskeleton and cell volume regulation. Comp. Biochem. Physiol. 130: 85-99. 2001.

**OP-ED**

O1. Mills, J.W. Higher Ed reauthorization requires careful review. Invited editorial, *Albany Times Union,* Sunday, February 22, 2004.

O2. Dalton, R., and J.W. Mills. A learning curve: Poor students in rural districts can achieve a

college education. Invited editorial, *Albany Times Union*, Albany, New York, January 27,

2008.

O3. Dalton, R., and J.W. Mills. College challenge for rural kids. Invited editorial, *Courier Journal*,

Louisville, Kentucky, August 1, 2008.

O4. Dalton, R., and J.W. Mills. Make college a reality for all. Invited editorial, *Albany Times Union*,

Albany, New York, March 12, 2013.

05. Glenn. K. and J.W. Mills. Paul Smith’s Helps Found Alliance for Resilient Campuses. Invited editorial, Adirondack Daily Enterprise, Saranac Lake, NY July 10, 2014