

**James E. Mahaney, PhD**  
**Associate Dean for Biomedical Affairs and Research**  
**Edward Via College of Osteopathic Medicine, Virginia Campus**

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**Education:**

- 1984 B.S. Chemistry, Virginia Tech, Blacksburg, VA  
Matriculated September 1980, Graduated May 1984  
1982-3, gas chromatography undergraduate research with Harold McNair, Ph.D.  
1983-4, flame ionization spectrometry undergraduate research with Gary Long, Ph.D.
- 1989 Ph.D. Chemistry, University of Virginia, Charlottesville, VA  
Matriculated August 1984, Graduated May 1989  
Advisor: Charles M. Grisham, Ph.D.  
Area of specialization: physical biochemistry  
Dissertation: EPR Studies of Spin Labeled ATPases

**Post-doctoral Education:**

- 1989 - 1993 Postdoctoral Associate, Department of Biochemistry  
University of Minnesota Medical School  
Advisor: David D. Thomas  
Areas of specialization: membrane biophysics and ion transport systems

**Professional Experience:**

- 1993 - 1994 Research Assistant Professor, Department of Biochemistry  
University of Minnesota Medical School
- 1994 - 2000 Assistant Professor, Department of Biochemistry  
West Virginia University School of Medicine  
Courses: Graduate Program: Cell and Molecular Bi

Courses: Medical Biochemistry (course director), Post-Baccalaureate Biochemistry (course director), Cardiovascular Physiology, Biochemical Nutrition

**Honors and Awards:**

1986 -

2012 -  
2013 -

AACOM and AOA Council for Research Directors





### **Book Chapters and Non-Peer Reviewed Papers:**

M.R. Klemens, J.M. Stewart, J.E. Mahaney, T.A. Kuntzweiler, M.C. Sattler, and C.M. Grisham. 1988. NMR and ESR Studies of Active Site Structures and Intermediate States of Kidney Na,K-ATPase and Ca-ATPase. *In* Advances in Biotechnology of Membrane Ion Transport. Vol. 51. P.L. Jørgenson and R. Verna, editors. Raven Press, New York. 107-124.

D.D. Thomas, E.M. Ostap, C.L. Berger, S.M. Lewis, P.G. Fajer, and J.E. Mahaney. 1993. Time-Resolved EPR of Muscle Protein Dynamics. *In* EMR of Paramagnetic Molecules. L.J. Berliner and J. Reuben, editors. Plenum Press, New York. pp. 323-351.

D.D. Thomas and J.E. Mahaney. 1993. Protein-Lipid Interactions in the Sarcoplasmic Reticulum Membrane. *In* Protein-Lipid Interactions. A. Watts, editor. Elsevier, Amsterdam. pp. 301-320.

J.P. Froehlich, K. Taniguchi, K. Fendler, J.E. Mahaney, D.D. Thomas, and R.W. Albers. 1997. Complex Kinetic Behavior in the Na,K- and Ca-ATPases. *Ann. New York Acad. Sci.* 834:280-296.

J.P. Froehlich, E. Bamberg, D.J. Kane, R.J. Clarke, J.E. Mahaney, and R.W. Albers. 2000. Contribution of quaternary protein interactions to the mechanism of energy transduction in Na<sup>+</sup>/K<sup>+</sup>-ATPase. *In* Na/K-ATPase and Related ATPases. K. Taniguchi and S. Kaya, eds. Elsevier, Amsterdam. Pp. 349-356.

J.E. Mahaney, R.W. Albers, H. Kutchai, and J.P. Froehlich. 2003. Phospholamban Controls Ca<sup>2+</sup>

Jason Southall, Ph.D., 2001, West Virginia University School of Medicine  
Patrick Apopa, M.S., 2002, West Virginia University School of Medicine  
Jason Waggoner, Ph.D., 2004, West Virginia University School of Medicine  
Vidhya Sivakumaran, Ph.D., 2010, Virginia Tech, Department of Biochemistry  
Chevon Thorpe, PhD, 2012, Virginia Tech, Department of Biochemistry

Graduate student committees for other laboratories: 24 students from 1998 through 2020.  
Includes Virginia Tech Graduate Students in Chemistry, Biochemistry and Electrical Engineering  
Graduate Student Laboratory Rotations: 26 rotation students from 1995 through 2013. Includes  
Virginia Tech Graduate Students in the Department of Biochemistry  
Undergraduate Research Program: