

CURRICULUM VITAE

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Date of Birth: September 8, 1949

Place of Birth: Hong Kong

Nationality: Citizen of the United States

Education:

1984-1991	Ph.D. in Physiology, Rush Medical College, Chicago, IL. Dissertation title: Studies on intact sarcoplasmic reticulum: patch clamp recording and tension measurement in split lobster muscle fibers.
1978-1981	D.D.S. program in Dentistry, University of Illinois at the Medical Center, Chicago, IL.
1973-1977	M.S. in Physiology, University of Illinois at the Medical Center, Chicago, IL. Dissertation title: Effect of ascorbic acid on lipid metabolism in guinea pigs.
1970-1973	B.S. (Magna Cum Laude) in Biology, University of Charleston, Charleston, W. Va.

Professional Appointments:

2017-Present	Web editor for Rush Medical College
2005-Present	Department Webmaster
2008-2020	Department Confocal Lab system manager
2003-2020	Department representative and member of Rush's Research and Academic Laboratory Safety Standing Committee (RALSC)
1998-Present	Assistant Professor, Department of Physiology & Biophysics (Molecular Biophysics and Physiology), Rush Medical College, Chicago, IL.
1991-1998	Instructor, Department of Physiology, Rush Medical College, Chicago, IL.

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1984-1991	Research Associate/Laboratory Supervisor, Department of Physiology, Rush Medical College, Chicago, IL.
1981-1984	Research Assistant, Department of Physiology, Rush Medical College, Chicago, IL.
1977-1978	Instructor, Medical Dietetics Department, University of Illinois at the Medical Center, Chicago, IL.
1973-1977	Research and Teaching Assistant, Department of Physiology and Department of Medical Dietetics, University of Illinois at the Medical Center, Chicago, IL.
1970-1973	Teaching Assistant, Department of Biology, University of Charleston, Charleston, W. Va.

Professional Societies: Chi Beta Phi Honorary Scientific Fraternity, Epsilon Chapter
Biophysical Society

Honors:

1992	Outstanding graduate student award. Rush University, Chicago, IL.
1985-1989	National Institutes of Health traineeship
1973-1977	Teaching assistantship with full tuition waiver. University of Illinois at the Medical Center, Chicago, IL.
1970-1973	Dean's List. University of Charleston, Charleston, W. Va.
1970-1973	Full tuition scholarship. University of Charleston, Charleston, W. Va.

Publications:

Nelson, D. J., **Tang, J. M.** and Palmer, L. G. (1984) Single-channel recording of apical membrane chloride conductance in A6 epithelial cells. *Journal of Membrane Biology*. 80:81-89.

Nelson, D. J., Jacobs, E. R., **Tang, J. M.**, Zeller, J. M. and Bone, R. C. (1985) Immunoglobulin G-induced single ionic channels in human alveolar macrophage membranes. *Journal of Clinical Investigation*. 76:500-507.

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Chen, D., **Tang, J. M.** and Eisenberg, R. S. (2002) Structure-Function Study of Porins, in Technical Proceedings of the 2002 International Conference on Computational Nanoscience and Nanotechnology, San Juan, Puerto Rico, April 21-25, 2002, pp. 64-67.

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van der Straaten, T. A., **Tang, J. M.**, Ravaioli, U., Eisenberg, R. S. and Aluru, N. (2003) Simulating Ion Permeation Through the OmpF Porin Ion channel Using Three-Dimensional Drift-Diffusion Theory. *Journal of Computational Electronics* 2:29-47.

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White, Ryan J., Zhang, Bo, Daniel, Susan, **Tang, J. M.**, Ervin, Eric N., Cremer, Paul S. and White, Henry S. (2006) The Ionic Conductivity of the Aqueous Layer Separating a Lipid Bilayer Membrane and a Glass Support. Langmuir 22:10777-10783.

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Abstracts:

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Goryll, M., Wilk, S., Laws, G. M., Thornton, T., Goodnick, S., Saraniti, M., **Tang, J. M.** and Eisenberg, R.S.. (2005) Integrated Sensor Design Using Ion Channels Inserted into Lipid Bilayer Membranes. in *Nanotechnology*, 2004. 4th IEEE Conference on. 2004. Munich, Germany.

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Wilk, S.J., Petrossian, L., Goryll, M., Laws, G. M., Goodnick, S. M., Thornton, T. J., **Tang, J. M.** and Eisenberg, R. S. (2005) Integrated Platform for Ion Channel Sensing. in *IEEE Sensors 2005*. Irvine, CA.

Giri, J., **Tang, J. M.**, Wirth, C., Peneff, C.M., Schirmer, T. and Eisenberg, B. (2011) Single Channel Measurements of N-Acetylneuraminic Acid-Inducible Channel (NANC) in *E. coli*. *Biophysical Journal*. Volume 100(3): p. 579a.

Giri, J., **Tang, J. M.**, Wirth, C., Peneff, C.M., Schirmer, T. and Eisenberg, B. (2011) Sialic Acid Transport in *E. coli*: Role of Outer Membrane Porin NanC. *Biophysical Journal*. 100(3): p. 577a..