

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, Office of Basic Biological Sciences (OBBS) Departments and Research Administration Shared Services

2008-Present Department Confocal Lab system manager

2005-Present Department Webmaster

2003-Present 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.

(Curriculum Vitae, J.M. Tang)

1991-1998 Instructor, Department of Physiology, Rush Medical College, Chicago, IL.
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.

Goryll, M., Wilk, S., Laws, G. M., Goodnick S., Thornton T., Saraniti, M., **Tang, J. M.** and Eisenberg, R. S. (2003) Silicon-based ion channel sensor. *Superlattices & Microstructures* 34 (3-6), 451-457.

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Wilk, S., Goryll, M., Laws, G. M., Thornton, T. J., Goodnick, S. M., Saraniti, M., **Tang, J. M.** and Eisenberg, R. S. (2004) Teflon coated silicon apertures for supported lipid bilayer membranes. Applied Physics Letters 85:3307-3309.

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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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Giri, Janhavi, **Tang, John M.**, Wirth, Christophe, Peneff, Caroline M. and Eisenberg, Bob (2012) Single Channel Measurements of N-Acetylneuraminic Acid-Inducible Outer Membrane Channel in *Escherichia coli*. European Biophysics Journal on-line as DOI 10.1007/s00249-011-0781-5.

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Abstracts:

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Wang, J., **Tang, J. M.** and Eisenberg, R. S. (1992) Calcium conducting channel in SR: calcium pump without occlusion? *Biophysical Journal*. 61:A433.

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Mediema, H., Meter-Arkema, A., Wierenga, J., Hektor, H., **Tang, J. M.**, Eisenberg, R.S. and Meijberg W. (2004) Permeation properties of an engineered OmpF containing the EEEE locus of Ca²⁺ channels. *Biophysical Journal* 86:260a.

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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..