

CURRICULUM VITAE

NAME: MARTIN FRANK

PROFESSIONAL ADDRESS: Executive Director
American Physiological Society
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EDUCATION: A.B., University of Illinois, Urbana, 1969
M.S. (Physiology), University of Illinois, Urbana, 1971
Ph.D. (Physiology), University of Illinois, Urbana, 1973

PROFESSIONAL EXPERIENCE:

- 2003-present Coordinator and Co-Founder, Washington DC Principles Coalitions for Free Access to Science, Bethesda, MD
Duties: coordinate the efforts of 75 not-for-profit society and university press publishers to counter efforts of Open Access advocates to force publishers to turn over their journal content to the Federal government without proper compensation for the services provided by publishers. The Coalition promotes efforts to provide the public with free access to the scientific literature either immediately or within months of publication based on the publishers business or publishing needs. Responsibilities include building consensus amongst the group, meeting with Executive branch and Congressional members to discuss the topic, and speaking at meetings on the topic.
- 1985-present Executive Director, American Physiological Society, Bethesda, Maryland.
Duties: serving as Chief Executive Officer of a non-profit association (501-c3) with 10,000 members, a staff of 70, an annual budget of \$15 million, and managed reserves of approximately \$38 million. Experienced in budget development and administration, program development and implementation, publication production and circulation, personnel division and evaluation, meeting and convention planning, Congressional relations and public speaking, fundraising, educational development and strategic planning
- 1984 Special Assistant to the Deputy Assistant Secretary for Health (Planning and Evaluation), Public Health Service, DHHS, Washington, D.C.
Duties: Assignment during SES Development Program; responsible for developing DHHS policy on health related issues with emphasis on Orphan Drug legislation.

- 1983-1985 Member, Senior Executive Service Candidate Development Program, DHHS, Washington, D.C.
Competitive training program designed to convert middle managers to members of the Senior Executive Service for employment in the Department of Health and Human Services. Assignment in the Office of the Assistant Secretary of Health, Policy Division, DHHS..
- 1978-1985 Executive Secretary, Physiology Study Section, Division of Research Grants, National Institutes of Health, Bethesda, MD.
Duties: responsible for managing the activities of an initial review group with sixteen consultants and a staff of 2. Managed the peer evaluation of approximately 270 proposals a year requesting \$30 million.
- 1978-present Associate Professorial Lecturer (Assistant 1978-1980; Associate 1980-present), Department of Pharmacology and Physiology, The George Washington University Medical Center, Washington, D.C.
- 1975-1978 Assistant Professor, Department of Physiology, The George Washington University Medical Center, Washington, D.C.
Duties: include teaching physiology to medical, graduate and allied health students, supervising graduate students, maintaining an active research program, and serving on University and Medical Center committees.
- 1974-1975 Research Associate under Drs. Tai Akera and Theodore M. Brody, Department of Pharmacology, Michigan State University, East Lansing, Michigan.
- 1973-1974 Research Associate under Dr. Samuel B. Horowitz, Cellular Physiology Laboratory, Michigan Cancer Foundation, Detroit, Michigan.
- 1973 Teaching Assistant, School of Basic Medical Sciences, University of Illinois, Urbana.
- 1971-1973 USPHS Pre-Doctoral Research Trainee, Department of Physiology and Biophysics, University of Illinois, Urbana.
- 1971-1973 Research Assistant under Dr. William W. Sleator, Department of Physiology and Biophysics, University of Illinois, Urbana.
- 1969-1972 Teaching Assistant, Department of Physiology and Biophysics, University of Illinois, Urbana.

HONORS, AWARDS, FELLOWSHIPS:

- 1965-1969 Evans' Scholarship Recipient from Western Golf Association, University of Illinois.

- 1969 Dean's List, University of Illinois.
 1971-1973 USPHS Pre-Doctoral Research Trainee, Department of Physiology and Biophysics, University of Illinois.
 1975 American Men & Women of Science
 1977 Who's Who in the East
 1983-1985 DHHS Senior Executive Service Candidate Development Program
 1988 Recipient, Pavlov Medal, Pavlov All-Union Physiological Society, Moscow, USSR, for contributions to physiology.
 2001 Distinguished Alumnus Award, Department of Molecular and Integrative Physiology, University of Illinois, Urbana, IL,

PROFESSIONAL SOCIETY MEMBERSHIPS:

- 1973-1994 Biophysical Society
 1973 - 1978 Sigma Xi
 1977-1998 Society of General Physiologists
 1986-present Society for Scholarly Publishing
 1987-present American Society of Association Executives
 1989-present Council of Engineering and Scientific Society Executives
 1976-present American Physiological Society

PH.D. DISSERTATION TITLE: Excitation-Contraction Coupling: Analysis of Calcium Storage Sites in Guinea Pig Atrium. Department of Physiology & Biophysics, University of Illinois, Urbana, 1973.

RESEARCH PUBLICATIONS

1. Frank, M. and W.W. Sleator. Effects of ryanodine on a myocardial membrane vesicular fraction. *Res. Comm. Chem. Pathol. Pharmacol.* 11: 65-72, 1975.
2. Frank, M. and W.W. Sleator. Effects of ryanodine on myocardial calcium. *N.S. Arch. Pharmacol.* 290:35-47, 1975.
3. Frank, M., I. Albrecht, W. W. Sleator, and R. B. Robinson. Stereological measurements of atrial ultrastructure in the guinea pig. *Experientia* 31: 578-580, 1975.
4. Frank, M. and S.B. Horowitz. Nucleocytoplasmic transport and distribution of an amino acid in situ. *J. Cell Sci.* 19:127-139, 1975.
5. Akera, T., D.D. Ku, M. Frank, T.M. Brody, and J. Iwasa. Effects of grayanotoxin I on cardiac Na⁺, K⁺, -ATPase activity, transmembrane potential and myocardial contractile force. *J. Pharmacol. Exp. Therap.* 199:247-254, 1976.
6. Frank, M., T. Akera, and T.M. Brody. Effects of ryanodine on the contractile force of potassium-depolarized hearts. *Res. Comm. Chem. Pathol. Pharmacol.* 15:511-523, 1976.
7. Ku, D.D., T. Akera, M. Frank, T.M. Brody and J. Iwasa. The effects of grayanotoxin I and alpha-dihydrograyanotoxin II on guinea pig myocardium. *J. Pharmacol. Exp. Therap.* 200:363-372, 1977.

8. Frank, M. The nucleocytoplasmic distribution of 3-O methylglucose in the amphibian oocyte. *Experientia* 33:897-898, 1977.
9. Frank, M. and J.J. Carr. An inexpensive analogue amplifier for mechanical recording. *Med. Biol. Eng. Comput.* 16:118-120, 1978.
10. Frank, M. and L.L. Flom. Effects of 2,4,6-triaminopyrimidine on the electromechanical properties of guinea pig myocardium. *J. Pharmacol. Exp. Therap.* 204:175-182, 1978.
11. Frank, M. and S.B. Horowitz. Potassium exchange in the whole cell, cytoplasm and nucleus of amphibian oocytes. *Amer. J. Physiol.* 238C:133-138, 1980.

BOOKS:

1. Eisenberg, R.S., M. Frank and C.F. Stevens (Editors). "Membranes, Channels and Noise," Plenum, New York, 1984.

OTHER PUBLICATIONS (EDITORIALS):

1. The Lady Doth Protest Too Much, Methinks. *The Physiologist* 28:390, 1985.
2. Does Physiology Have A Future? *The Physiologist* 29:1-2, 1986.
3. Effective March 1st. *The Physiologist* 29: 17-18, 1986.
4. SBIR: Boon or Boondoggle? *The Physiologist* 29:33-34, 1986.
5. Lend a Helping Hand. *The Physiologist* 29: 189-190, 1986.
6. Repeat Performance. *The Physiologist* 30: 17-18, 1987.
7. A Monkey Off Our Back. *The Physiologist* 30: 33-34, 1987.
8. Encounter on the Airwaves. *The Physiologist*. 30:265-266, 1987.
9. Communication Gap. *The Physiologist* 31: 1-2, 1988.
10. Wheel of (mis)Fortune. *The Physiologist* 31:17-18, 1988.
11. Reach Out and Touch Someone. *The Physiologist* 31:153-154, 1988.
12. A Question of Ethics. *The Physiologist* 32:17-18, 1989.
13. Filling the Talent Pool. *The Physiologist* 32: 37-38, 1989.
14. A Question Worth Asking. *The Physiologist* 32:245-246, 1989
15. I Have a Dream. *The Physiologist* 33: 29-35, 1990.
16. Dateline - Washington. *The Physiologist* 33:49-50, 1990
17. Salvation - It's Just Around the Corner. *The Physiologist* 33:141-142, 1990.
18. ROIs: An Endangered Species? *The Physiologist* 35:77-78, 1992.
19. Just Say No! *The Physiologist* 36:3, 1993.
20. A Lasting Legacy? *The Physiologist* 36:84-88, 1993.
21. To the Hill. *The Physiologist* 38:59-60, 1995.
22. On-line and Into the Future. *The Physiologist* 38:192-193, 1995.
23. St. Petersburg - 1997 *The Physiologist* 39:270-272, 1996.
24. A New Age Dawning. *The Physiologist* 40:1, 3-4, 1997.
25. The Membership Has Spoken! *The Physiologist* 41:14, 1998.
26. EB'99 – A Changed Meeting. *The Physiologist* 41:155, 1998.
27. Kiwi Magic. *The Physiologist* 42:81, 1999.
28. EB 2001 – Translating the Genome. *The Physiologist* 43:165, 167, 2000.
29. No Free Lunch. *The Physiologist* 44:109, 111, 2001.
30. View From the Street. *The Physiologist* 44: 293-294, 2001.
31. Passing the Flag – From Christchurch to San Diego! *The Physiologist* 44:387, 389-391,

- 2001.
32. Creating a Better Mousetrap! *The Physiologist* 45:3-4, 2002.
 33. Impact Factors: Arbiter of Excellence? *The Physiologist* 45:181-183, 2002.
 34. Open Does Not Mean Free! *The Physiologist* 47:151, 2004.
 35. The More Things Change... *The Physiologist* 54:11-12, 2011.
 36. We Must Do Better! *The Physiologist* 54:43-45, 2011.
 37. Get Ready to Party in San Diego! *The Physiologist* 54:115, 2011.

OTHER PUBLICATIONS (MISCELLANEOUS):

1. Frank, M. The Changing Face of Physiology. *The Physiologist* 30:118a, 1987.
2. Otis, A. and M. Frank. Centennial Celebration. In *History of the American Physiological Society, The First Century, 1887-1987*. Editors: J.R. Brobeck, O.E. Reynolds and T. A. Appel, 1987. pp. 479-497.
3. Frank, M. and A. E. Taylor. This is FASEB: The American Physiological Society. *FASEB J.* 4:235-239, 1990.
4. Frank, M. Animal rights, animal wrongs, animal research. *Boletin Cientifico Del Sur* 19:47-51, 1992.
5. Matyas, M.L. and M. Frank. Physiologists at U.S. Medical Schools: Education, Current Status, and Trends in Diversity. *The Physiologist* 38:1-12, 1995.
6. Matyas, M. L. and M. Frank. The employment of recent doctoral graduates in physiology. *The Physiologist* 41: 153, 156-160, 1998.
7. Dzau, V., M. Frank, M. Reich, M. J. Finley Austin, R. Aeborsold, A. Cowley, D. Housman, R. Mulligan, and R. Rosenberg. Constants and Scientific Progress. *Physiological Genomics* 1: 107, 1999.
8. Matyas, M.L. and Frank, M. Employment of 1996-97 Doctoral Graduates in Physiology. *The Physiologist* 42 (3): 117-122, 1999.
9. Frank, M. and Matyas, M. L. The Status of Physiologists and Physiology at US Medical Schools. *The Physiologist* 45(4): 179, 184-192, 2002.
10. Frank, M. Impact Factors: Arbiter of Excellence? *J Med Libr Assoc* 91(1): 4-6, 2003.
11. Matyas, M. L. and M. Frank. Porter Physiology Development Program 1967-2001: A Retrospective Study. *The Physiologist* 47: 1-6, 2004
11. Frank, M, M. Reich, and A. Ra'anana. A Not-for-Profit Publisher's Perspective on Open Access. *Serials Review* 30:281-287, 2004.
12. Glassroth, J. and M. Frank. A Harmful Cure. *The Washington Times*. September 14, 2005.
13. Frank, M. Free Access for All! Can We Afford It? *Physiology* 21:372-373, 2006. doi:10.1152/physiol.00038.2006
14. Frank, M. Access to the Scientific Literature – A Difficult Balance. *NEJM* 354: 1552-1555, 2006.
15. Lowy, M. E. and M. Frank. Merging Department: Dealing with the Good, the Bad, and the Ugly. *The Physiologist* 52:163-166, 2009.
15. Frank, M. "Public Access" to Scientific Literature? *FASEB J.* 26: 1767-1770, 2012. doi: 10.1096/fj.12-0501ufm

ABSTRACTS:

1. Frank, M. and W.W. Sleator. Ryanodine effects on guinea pig atrial membrane vesicles. *Physiologist* 16: 312, 1973(abstract).
2. Frank, M. and S.B. Horowitz. The intracellular distribution of alpha -aminoisobutyric acid(AIB) in the amphibian oocyte. *Fed. Proc.*33: 1393, 1974 (abstract).
3. Frank, M. and S.B. Horowitz. Nuclear and cytoplasmic potassium of the amphibian oocyte. *Biophys. J.* 15: 312a, 1975(abstract).
4. Ku, D. T. Akera, M. Frank, and T.M. Brody. Effects of grayanotoxin I on cardiac Na,K-ATPase activity, transmembrane potential and myocardial force. *Pharmacologist* 17: 218, 1975(abstract).
5. Frank, M., T. Akera, and T.M. Brody. Electromechanical effects of Rb⁺ and Tl⁺ on guinea pig left atrial preparations. *Fed. Proc.* 35: 236, 1976 (abstract).
6. Frank, M. and L.L. Flom. 2,4,6-Triaminopyrimidine (TAP): Effects on electromechanical properties of guinea pig myocardium. *Fed. Proc.* 36: 500, 1977 (abstract).
7. Frank, M., L.L. Flom and J.M.H. French-Mullen. Effects of aminopyridines on electromechanical properties of guinea pig atrium. *Fed. Proc.* 37: 863, 1978 (abstract).