

Curriculum Vitae

Stephen W. Jones

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Professional

Professor, Department of Physiology and Biophysics, Case Western Reserve University, July 2003 - date. Associate Professor, July 1991 - 2003. Assistant Professor, April 1986 - June 1991.

Research Assistant Professor, Department of Neurobiology and Behavior, SUNY at Stony Brook, Stony Brook, New York, April 1984 - March 1986.

Service on university, medical school, and departmental committees. Currently on Committee on Appointments, Promotion, and Tenure, Department of Physiology and Biophysics.

NIH grant April 1984 - February 2008, current title "Ion channels of neurons," PI Stephen W. Jones.

American Heart Association Established Investigator Award, July 1991 - June 1996.

Member Society for Neuroscience, Biophysical Society, AAAS.

President of Cleveland Chapter of Society for Neuroscience, 1991.

Editorial Board of *Journal of General Physiology*, 1992 - date; *Journal of Physiology*, 1998 - 2005. Ad hoc reviewer for >150 manuscripts for >30 other journals.

Ad hoc reviewer for NIH study sections (4 times), three NIH program project site visits, NSF grant proposals.

Invited lectures/seminars at Second World Congress of Neuroscience (Budapest, Hungary), Gordon Conferences (Ion Channels, Neural Plasticity, Excitation-Contraction Coupling), sympathetic ganglia symposium (Edmonton, Alberta), Cold Spring Harbor Lab., Marine Biol. Lab., New York Acad. Sci., Ohio Physiol. Soc., U. Chicago, Northwestern Univ., Cornell Univ., Chicago Med. School., Univ. Arkansas, Univ. Tennessee, Univ. Southern California, Oregon Health Sci. Univ., SUNY at Stony Brook, Univ. Med. Dent. New Jersey, Case Western Reserve Univ., Duke Univ., Univ. Alberta, Wright State Univ., Ohio State Univ., Univ. Western Ontario, Univ. Texas Southwestern Med. Center, Heidelberg College, Rush Med. College, SUNY at Buffalo, Univ. Toronto, Univ. Pittsburgh., Univ. Texas San Antonio, N. E. Ohio Univ. College of Medicine, John Carroll Univ., Univ. College London (England).

Postdoctoral

NIH Postdoctoral Fellow, in the laboratory of Dr. Paul R. Adams at SUNY Stony Brook, July 1983 - March 1984. Research Associate with Dr. Adams, April 1982 - June 1983.

Muscular Dystrophy Association Postdoctoral Fellow (2 years) and Research Associate, in the laboratory of Dr. Miriam M. Salpeter, Section of Neurobiology and Behavior, Cornell University, Ithaca, NY, September 1979 - March 1982.

Education

Graduate student in the laboratory of Dr. Richard D. O'Brien, in Neurobiology and Behavior at Cornell, July 1974 - August 1979. Ph. D. thesis (1980) "Binding of Ligands to Macromolecules of Cholinergic Systems." Major, Neurobiology; minors, Behavioral Biology and Philosophy. NSF Graduate Fellowship, Fall 1974 - Spring 1977.

B. S. in Biochemistry with high honor, from Michigan State Univ., Spring 1974. In Lyman Briggs College, MSU's science residential college. National Merit Scholarship, Fall 1971 - Spring 1972. Phi Beta Kappa.

Graduated as valedictorian from Elyria High School, Elyria, Ohio, June 1971.

Teaching

Lecturer in multiple graduate level courses 1986-date. Current involvement: Ph. D. level: PHOL 401B, "Physiology and Biophysics of Molecules and Cells", 6 hours/year. MS in Medical Physiology program: PHOL 481, "Medical Physiology", 19 hours/year; PHOL 482, "Translational Physiology", 1 hour/year; PHOL 498, "Physiology and Biophysics Departmental Seminar", course director. PA program: PHOL 477, "Human Physiology", 10 hours/year.

Lectures to 1st or 2nd year medical students 1987-date, currently 5 hours/year; labs and small groups, 8 hours/year. IQ+ cases for 3rd year medical students, 8 hours/year. Head of Cell Physiology component of Block 4 for 1st year medical students, 2018. Chair of Neuromuscular section for 1st year medical students, 1990-2005.

Thesis advisor for Theodore N. Marks (Ph. D. 1990), Wei Zhou (Ph. D. 1996), Brian M. Block (Ph. D. 1996), Paul J. Kammermeier (Ph. D. 1997), Kate G. Klemic (Ph. D. 1998), Jose Serrano (Ph. D. 2001), Jian Chang (M. S. 2004), Kyle V. Lopin (Ph. D. 2013), Quentin Jamieson (Ph. D. 2014).

Postdoctoral advisor for Drs. Keith S. Elmslie, Mary Ann Werz, Charles J. Frazier, Carlos A. Obejero-Paz, Nilofar Khan.

Thesis committees for ~40 Ph. D. students. External examiner for Debra Artim (Ph. D. 2005, Univ. Pittsburgh).

Marine Biological Laboratory, Woods Hole, MA: Instructor for Neurobiology course, 1985-97; Methods in Computational Neuroscience, 1993.

Cornell University, Ithaca, NY: Lecturer for cellular neurobiology course, Spring 1981 (TA, Spring 1979); led seminar course on neurotoxins, Spring 1976.

Lyman Briggs College of Michigan State University: Undergraduate TA, 2 years.

PUBLICATIONS

Journals

- Jamieson, Q., and Jones, S. W. (2014) Shaker IR T449 mutants separate C- from U-type inactivation. *Journal of Membrane Biology* **247**, 319-330.
- Jamieson, Q., and Jones, S. W. (2013) Role of outer-pore residue Y380 in U-type inactivation of K_v2.1 channels. *Journal of Membrane Biology* **246**, 633-645.
- Lopin, K. V., Gray, I. P., Obejero-Paz, C. A., Thévenod, F., and Jones, S. W. (2012) Fe²⁺ block and permeation of Cav3.1 (α1G) T-type calcium channels: candidate mechanism for non-transferrin-mediated Fe²⁺ influx. *Molecular Pharmacology* **82**, 1194-1204.
- Lopin, K. V., Thévenod, F., Page, J. C., and Jones, S. W. (2012) Cd²⁺ block and permeation of Cav3.1 (α1G) T-type calcium channels: candidate mechanism for Cd²⁺ influx. *Molecular Pharmacology* **82**, 1183-1193.
- Lopin, K. V., Obejero-Paz, C. A., and Jones, S. W. (2010) Evaluation of a two-site, three-barrier model for permeation in Cav3.1 (α1G) T-type calcium channels: Ca²⁺, Ba²⁺, Mg²⁺, and Na⁺. *Journal of Membrane Biology* **235**, 131-143.
- Obejero-Paz, C. A., Gray, I. P., and Jones, S. W. (2008) Ni²⁺ block of Cav3.1 (α1G) T-type calcium channels. *Journal of General Physiology* **132**, 239-250.
- Khan, N., Gray, I. P., Obejero-Paz, C. A., and Jones, S. W. (2008) Permeation and gating in Cav3.1 (α1G) T-type calcium channels. Effects of Ca²⁺, Ba²⁺, Mg²⁺, and Na⁺. *Journal of General Physiology* **132**, 223-238.
- Iancu, R. V., Ramamurthy, G., Warriar, S., Nikolaev, V. O., Lohse, M. J., Jones, S. W., and Harvey, R. D. (2008) Cytoplasmic cAMP concentrations in intact cardiac myocytes. *American Journal of Physiology* **295**, C414-C422.
- Wu, L., Yong, S. L., Fan, C., Ni, Y., Yoo, S., Zhang, T., Zhang, X., Obejero-Paz, C. A., Rho, H. J., Ke, T., Szafranski, P., Jones, S. W., Chen, Q., and Wang, Q. K. (2008) Identification of a new co-factor, MOG1, required for the function of cardiac sodium channel Nav1.5. *Journal of Biological Chemistry* **283**, 6968-6978.
- Iancu, R. V., Jones, S. W., and Harvey, R. D. (2007) Compartmentation of cAMP signaling in cardiac myocytes: A computational study. *Biophysical Journal* **92**, 3317-3331.
- Jones, S. W., and Friel, D. D. (2006) The amplitude distribution of release events through a fusion pore. *Biophysical Journal* **90**, L39-L41.
- Estacion, M., Sinkins, W. G., Jones, S. W., Applegate, M. A. B., and Schilling, W. P. (2006) Human TRPC6 expressed in HEK 293 cells forms non-selective cation channels with limited Ca²⁺ permeability. *Journal of Physiology* **572**, 359-377.
- Obejero-Paz, C. A., Gray, I. P., and Jones, S. W. (2004) Y³⁺ block demonstrates an intracellular activation gate for the α1G T-type Ca²⁺ channel. *Journal of General Physiology* **118**, 631-640.
- Frazier, C. J., Serrano, J. R., George, E. G., Yu, X., Viswanathan, A., Perez-Reyes, E., and Jones, S. W. (2001) Gating kinetics of the α1I T-type calcium channel. *Journal of General Physiology* **118**, 457-470.
- Klemic, K. G., Kirsch, G. E., and Jones, S. W. (2001) U-type inactivation of Kv3.1 and Shaker potassium channels. *Biophysical Journal* **81**, 814-826.
- Serrano, J. R., Dashti, S. R., Perez-Reyes, E., and Jones, S. W. (2000) Mg²⁺ block unmasks Ca²⁺/Ba²⁺ selectivity of α1G T-type calcium channels. *Biophysical Journal* **79**, 3052-3062.

- Frazier, C. J., George, E. G., and Jones, S. W. (2000) Apparent change in ion selectivity caused by changes in intracellular K⁺ during whole-cell recording. *Biophysical Journal* **78**, 1872-1880.
- Serrano, J. R., Perez-Reyes, E., and Jones, S. W. (1999) State-dependent inactivation of the α 1G T-type calcium channel. *Journal of General Physiology* **114**, 185-201.
- Obejero-Paz, C. A., Jones, S. W., and Scarpa, A. (1998) Multiple channels mediate calcium leakage in the A7r5 smooth muscle-derived cell line. *Biophysical Journal* **75**, 1271-1286.
- Block, B. M., Stacey, W. C., and Jones, S. W. (1998) Surface charge and lanthanum block of calcium current in bullfrog sympathetic neurons. *Biophysical Journal* **74**, 2278-2284.
- Klemic, K. G., Durand, D. M., and Jones, S. W. (1998) Activation kinetics of the delayed rectifier potassium current of bullfrog sympathetic neurons. *Journal of Neurophysiology* **79**, 2345-2357.
- Klemic, K. G., Shieh, C.-C., Kirsch, G. E., and Jones, S. W. (1998) Inactivation of Kv2.1 potassium channels. *Biophysical Journal* **74**, 1179-1189.
- Kammermeier, P. J., and Jones, S. W. (1998) Facilitation of L-type calcium current in thalamic neurons. *Journal of Neurophysiology* **79**, 410-417.
- Block, B. M., and Jones, S. W. (1997) Delayed rectifier of bullfrog sympathetic neurons: Ion-ion competition, asymmetric block, and effects of ions on gating. *Journal of Physiology* **499**, 403-416.
- Kammermeier, P. J., and Jones, S. W. (1997) High-voltage-activated calcium currents in neurons acutely isolated from the ventrobasal nucleus of the rat thalamus. *Journal of Neurophysiology* **77**, 465-475.
- Block, B. M., and Jones, S. W. (1996) Ion permeation and block of M-type and delayed rectifier potassium channels. Whole cell recordings from bullfrog sympathetic neurons. *Journal of General Physiology* **107**, 473-488.
- Zhou, W., and Jones, S. W. (1996) The effects of external pH on calcium channel currents in bullfrog sympathetic neurons. *Biophysical Journal* **70**, 1326-1334.
- Zhou, W., and Jones, S. W. (1995) Surface charge and calcium channel saturation in bullfrog sympathetic neurons. *Journal of General Physiology* **105**, 441-462.
- Elmslie, K. S., and Jones, S. W. (1994) Concentration dependence of neurotransmitter effects on calcium current kinetics in frog sympathetic neurons. *Journal of Physiology* **481**, 35-46.
- Elmslie, K. S., Kammermeier, P. J., and Jones, S. W. (1994) Reevaluation of Ca²⁺ channel types and their modulation in bullfrog sympathetic neurons. *Neuron* **13**, 217-228.
- Obejero-Paz, C. A., Lakshmanan, M., Jones, S. W., and Scarpa, A. (1993) Effects of dexamethasone on L-type calcium currents in the A7r5 smooth muscle-derived cell line. *FEBS Letters* **333**, 73-77.
- Werz, M. A., Elmslie, K. S., and Jones, S. W. (1993) Phosphorylation enhances inactivation of N-type calcium channel current in bullfrog sympathetic neurons. *Pflügers Archiv* **424**, 538-545.
- Elmslie, K. S., Werz, M. A., Overholt, J. L., and Jones, S. W. (1993) Intracellular ATP and GTP are both required to preserve modulation of N-type calcium channel current by norepinephrine. *Pflügers Archiv* **423**, 472-479.
- van Lunteren, E., Elmslie, K. S., and Jones, S. W. (1993) Effects of temperature on calcium current of bullfrog sympathetic neurons. *Journal of Physiology* **466**, 81-93.

- Elmslie, K. S., Kammermeier, P. J., and Jones, S. W. (1992) Calcium current modulation in frog sympathetic neurones: L-current is relatively insensitive to neurotransmitters. *Journal of Physiology* **456**, 107-123.
- Thevenod, F. T., and Jones, S. W. (1992) Cadmium block of calcium current in frog sympathetic neurons. *Biophysical Journal* **63**, 162-168.
- Marks, T. N., and Jones, S. W. (1992) Calcium currents in the A7r5 smooth muscle-derived cell line. An allosteric model for calcium channel activation and dihydropyridine agonist action. *Journal of General Physiology* **99**, 367-390.
- Obejero-Paz, C. A., Jones, S. W., and Scarpa, A. (1991) Calcium currents in the A7r5 smooth muscle-derived cell line. Increase in current and selective removal of voltage-dependent inactivation by intracellular trypsin. *Journal of General Physiology* **98**, 1127-1140.
- Giannattasio, B., Jones, S. W., and Scarpa, A. (1991) Calcium currents in the A7r5 smooth muscle-derived cell line. Calcium-dependent and voltage-dependent inactivation. *Journal of General Physiology* **98**, 987-1003.
- Jones, S. W. (1991) Time course of receptor-channel coupling in frog sympathetic neurons. *Biophysical Journal* **60**, 502-507.
- Marks, T. N., Dubyak, G. R., and Jones, S. W. (1990) Calcium currents in the A7r5 smooth muscle-derived cell line. *Pflügers Archiv* **417**, 433-439.
- Jones, S. W., and Jacobs, L. S. (1990) Dihydropyridine actions on calcium currents of frog sympathetic neurons. *Journal of Neuroscience* **10**, 2261-2267.
- Elmslie, K. S., Zhou, W., and Jones, S. W. (1990) LHRH and GTP- γ -S modify calcium current activation in bullfrog sympathetic neurons. *Neuron* **5**, 75-80.
- Jones, S. W. (1989) On the resting potential of isolated frog sympathetic neurons. *Neuron* **3**, 153-161.
- Jones, S. W., and Marks, T. N. (1989) Calcium currents in bullfrog sympathetic neurons. I. Activation kinetics and pharmacology. *Journal of General Physiology* **94**, 151-167.
- Jones, S. W., and Marks, T. N. (1989) Calcium currents in bullfrog sympathetic neurons. II. Inactivation. *Journal of General Physiology* **94**, 169-182.
- Jones, S. W. (1987) Chicken II luteinizing hormone-releasing hormone inhibits the M-current of bullfrog sympathetic neurons. *Neuroscience Letters* **80**, 180-184.
- Jones, S. W. (1987) Sodium currents in dissociated bull-frog sympathetic neurones. *Journal of Physiology* **389**, 605-627.
- Jones, S. W. (1987) A muscarine-resistant M-current in C cells of bullfrog sympathetic ganglia. *Neuroscience Letters* **74**, 309-314.
- Jones, S. W. (1985) Muscarinic and peptidergic excitation of bull-frog sympathetic neurones. *Journal of Physiology* **366**, 63-87.
- Jones, S. W., Adams, P. R., Brownstein, M. J., and Rivier, J. E. (1984) Teleost luteinizing hormone-releasing hormone: Action on bullfrog sympathetic ganglia is consistent with role as neurotransmitter. *Journal of Neuroscience* **4**, 420-429.
- Adams, P. R., Brown, D. A., and Jones, S. W. (1983) Substance P inhibits the M-current in bullfrog sympathetic neurones. *British Journal of Pharmacology* **70**, 330-333.
- Jones, S. W., and Salpeter, M. M. (1983) Absence of [¹²⁵I] α -bungarotoxin binding to motor nerve terminals of frog, lizard and mouse muscle. *Journal of Neuroscience* **3**, 326-331.
- Loring, R. H., Jones, S. W., Matthews-Bellinger, J., and Salpeter, M. M. (1982) ¹²⁵I- α -Bungarotoxin. Effects of radiodecomposition on specific activity. *Journal of Biological Chemistry* **257**, 1418-1422.

- Jones, S. W., Sudershan, P., and O'Brien, R. D. (1981) α -Bungarotoxin binding in house fly heads and *Torpedo* electroplax. *Journal of Neurochemistry* **36**, 447-453.
- Jones, S. W., and Sumikawa, K. (1981) Quinuclidinyl benzilate binding in house fly heads and rat brain. *Journal of Neurochemistry* **36**, 454-459.
- Jones, S. W., and Thompson, W. R. (1980) Preparation and characterization of ^3H -labeled α -bungarotoxin. *Analytical Biochemistry* **101**, 262-270.
- Jones, S. W., Galasso, R. T., and O'Brien, R. D. (1977) Nicotine and α -bungarotoxin binding to axonal and non-neural tissues. *Journal of Neurochemistry* **29**, 803-809.

Reviews, etc.

- Voipio, J., Boron, W. F., Jones, S. W., Hopfer, U., Payne, J. A., and Kaila, K. (2014) Comment on "Local impermeant anions establish the neuronal chloride concentration." *Science* **345**, 1130b.
- Jones, S. W. (2006) Are rate constants constant? (Perspective) *Journal of Physiology* **571**, 502.
- Jones, S. W. (2006) Basic cellular neurophysiology. In *The Treatment of Epilepsy: Principles and Practice*, 3rd ed., ed. Wyllie, E., pp. 69-89. Baltimore, MD: Williams & Wilkins.
- Jones, S. W. (2003) Calcium channels: Unanswered questions. *Journal of Bioenergetics and Biomembranes* **35**, 461-475.
- Jones, S. W. (2002) Calcium channels: when is a subunit not a subunit? (Perspective) *Journal of Physiology* **545**, 334.
- Jones, S. W. (2000) Basic cellular neurophysiology. In *The Treatment of Epilepsy: Principles and Practice*, 3rd ed., ed. Wyllie, E., pp. 3-23. Baltimore, MD: Williams & Wilkins.
- Jones, S. W. (1999) Neuronal firing pattern modulation. In *Encyclopedia of Life Sciences*. London: Macmillian Reference Ltd.
- Jones, S. W. (1999) A plausible model (Commentary). *Journal of General Physiology* **114**, 271-275.
- Jones, S. W. (1999) Inactivation of N-type Ca^{2+} channels: Ca^{2+} vs. voltage (Perspective). *Journal of Physiology* **518**, 630.
- Jones, S. W. (1998) Overview of voltage-dependent calcium channels. *Journal of Bioenergetics and Biomembranes* **30**, 299-312.
- Jones, S. W., and Elmslie, K. S. (1997) Transmitter modulation of neuronal calcium channels. *Journal of Membrane Biology* **155**, 1-10.
- Jones, S. W., and Swanson, T. H. (1997) Basic cellular neurophysiology. In *The Treatment of Epilepsy: Principles and Practice*, ed. Wyllie, E., 2nd ed., pp. 19-42. Baltimore, MD: Williams & Wilkins.
- Jones, S. W., and Elmslie, K. S. (1992) Separation and modulation of calcium currents in bullfrog sympathetic neurons. *Canadian Journal of Physiology and Pharmacology* **70**, S56-S63.
- Jones, S. W. (1992) Models of ion channel gating. In *Computers and Computations in the Neurosciences. Methods in Neurosciences*, v. 10, ed Conn, P. M., pp. 455-472. San Diego, CA: Academic Press.
- Jones, S. W. (1991) Ion channels: Not an open-and-shut case (News and Views). *Nature* **353**, 603-604.
- Jones, S. W. (1990) Whole-cell and microelectrode voltage clamp. In *Neurophysiological Methods: Basic Methods and Concepts*, ed. Boulton, A. A., Baker, G.B., and Vanderwolf, C. H., pp. 143-192. Clifton, NJ: Humana Press.

- Jones, S. W. (1990) Generation of action potentials by sodium and potassium channels. In *Monovalent Cations in Biological Systems*, ed. Pasternak, C. A., pp. 187-210. Boca Raton, FL: CRC Press.
- Jones, S. W. (1989) Review of *Ion Channels*, ed. Narahashi, T., v. 1., New York: Plenum Press. *Quarterly Review of Biology* **64**, 93.
- Jones, S. W. (1987) Luteinizing hormone-releasing hormone as a neurotransmitter in bullfrog sympathetic ganglia. *Annals of the New York Academy of Sciences* **519**, 310-322.
- Jones, S. W. (1987) *AXOVACS Instructors Guide, Version 1.0*. Burlingame, CA: Axon Instruments, Inc.
- Jones, S. W., and Adams, P. R. (1987) Peptides and slow synaptic potentials. In *Molecular Neurobiology: Endocrine Approaches*, ed. Strauss, J. F. III, and Pfaff, D. W., pp. 3-29. New York: Academic Press.
- Jones, S. W. (1987) Presynaptic mechanisms at vertebrate neuromuscular junctions. In *The Neuromuscular Junction*, ed. Salpeter, M. M., pp. 187-245. New York: Alan R. Liss.
- Jones, S. W., and Adams, P. R. (1987) The M-current and other potassium currents of vertebrate neurons. In *Neuromodulation*, ed. Kaczmarek, L. K., and Levitan, I. B., pp. 159-186. New York: Oxford University Press.
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- Brown, D. A., Adams, P. R., Jones, S. W., Griffith, W. H., Hills, J., and Constanti, A. (1985) Some ionic mechanisms of slow peptidergic neuronal excitation. *Regulatory Peptides* **suppl. 4**, 157-161.
- Jones, S. W. (1982) Identification of receptors *in vitro*. In *Receptor-Binding Radiotracers*, ed. Eckelman, W. C., v. 1, pp. 15-36. Boca Raton, FL: CRC Press.
- Jones, S. W., Sudershan, P., and O'Brien, R. D. (1979) Interaction of insecticides with acetylcholine receptors. In *Neurotoxicology of Insecticides and Pheromones*, ed. Narahashi, T., pp. 259-275. New York: Plenum Press.

Abstracts

- Jamieson, Q., Obejero-Paz, C. A., and Jones, S. W. (2008) Mn^{2+} blocks, permeates, and shifts gating of Cav3.1 T-type calcium channels *Biophysical Journal* **94**, Abstract #3129.
- Khan, N., Gray, I. P., Obejero-Paz, C. A., and Jones, S. W. (2007) Ionic effects on permeation in $\alpha 1C$ L-type calcium channels: Ca^{2+} , Ba^{2+} , and Na^+ . *Biophysical Journal* **92**, Abstract #460.
- Lopin KV, Gray IP, Obejero-Paz CA, Jones SW (2007) Fe^{2+} block and permeation in $\alpha 1G$ (Cav3.1) T-type calcium channels. *Biophysical Journal* **92**, Abstract #2867.
- Obejero-Paz, C. A., Gray, I. P., and Jones, S. W. (2006) Ni^{2+} block of Cav3.1 calcium channels. *Biophysical Journal* **90**, Abstract #783.
- Obejero-Paz, C. A., Khan, N., Gray, I. P., and Jones, S. W. (2006) Ca^{2+} and Ba^{2+} block of Cav3.1 calcium channels. *Biophysical Journal* **90**, Abstract #1134.
- Estacion, M., Applegate, M. A. B., Jones, S. W., Sinkins, W. G., and Schilling, W. P. (2005) Human TRPC6 forms non-selective cation channels with limited Ca^{2+} permeability. Experimental Biology meeting, Abstract #671.53

- Khan, N., Gray, I. P., Obejero-Paz, C. A., and Jones, S. W. (2005) Effects of divalent cations on gating and permeation in α_1G T-type calcium channels. *Biophysical Journal* **88**, Abstract #1352.
- Jones, S. W. (2005) Effect of channel gating noise on chaos and oscillations in the Hodgkin-Huxley model with slow h-gate kinetics. *Biophysical Journal* **88**, Abstract #3069.
- Jones, S. W., and Friel, D. D. (2004) The amplitude distribution of release events through a fusion pore. *Society for Neuroscience Abstracts*, Program #281.22.
- Obejero-Paz, C. A., and Jones, S. W. (2004) Yttrium block and the activation gate of the α_1G T-type calcium channel. *Biophysical Journal* **86**, Abstract #1412.
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- Frazier, C. J., George, E. G., and Jones, S. W. (1999) Inactivation of Kv2.1 potassium channels has a U-shaped voltage dependence in Na^+ or 10 mM K^+ . *Biophysical Journal* **76**, A332.
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