

Publications:

1. Hibberd, M.G., Dantzig, J.A., Trentham, D.R., and Goldman, Y.E. Phosphate Release and Force Generation in Skeletal Muscle Fibers. *Science*, **228**:1317-1319. 1985.
2. Dantzig, J.A. and Goldman, Y.E. Suppression of Muscle Contraction by Vanadate: Mechanical and Ligand Binding Studies on Glycerol-Extracted Rabbit Fibers. *J. Gen. Physiol.*, **86**:305-327. 1985.
3. Dantzig, J.A., Walker, J.W., Trentham, D.R., and Goldman, Y.E. Relaxation of Muscle Fibers with Adenosine ATPgS and by Laser Photolysis of Caged ATPgS: Evidence for Ca^{2+} -Dependent Affinity of Rapidly Detaching Zero-Force Cross-Bridges. *Proc. Nat. Acad. Sci. U.S.A.*, **85**:6716-6720. 1988.
4. Dantzig, J.A., Hibberd, M.G., Trentham, D.R., and Goldman, Y.E. Cross-Bridge Kinetics in the Presence of MgADP Investigated by Photolysis of Caged ATP in Rabbit Psoas Muscle Fibres. *J. Physiol.*, **432**:639-680. 1991.
5. Dantzig, J.A., Goldman, Y.E., Millar, N.C., Laktis, J., and Homsher, E. Reversal of the Cross-Bridge Force-Generating Transition by Photogeneration of Phosphate in Rabbit Psoas Muscle Fibres. *J. Physiol.*, **451**:247-278. 1992.
6. Dantzig, J.A., Higuchi, H., and Goldman, Y.E. Studies of Molecular Motors using Caged Compounds. *Methods in Enzymology*, **291**:307-334. 1998.
7. Dantzig, J.A., Barsotti, R.J., Manz, S., Sweeney, H.L., and Goldman, Y.E. The ADP Release Step of the Smooth Muscle Cross-Bridge Cycle is Not Directly Associated with Force Generation. *Biophys. J.*, **77**:386-397. 1999.
8. Cheung, A., Dantzig, J.A., Hollingworth, S., Baylor, S., Goldman, Y.E., Mitchison, T.J., and Straight, A.F. A Small-Molecule Inhibitor of Skeletal Muscle Myosin II. *Nat. Cell Biol.*, **4**:83-88. 2002.
9. Caremani, M., Dantzig, J., Goldman, Y.E., Lombardi, V., and Linari, M. Effect of Inorganic Phosphate on the Force and Number of Myosin Cross-Bridges during the Isometric Contraction of Permeabilized Muscle Fibers from Rabbit Psoas. *Biophys. J.*, **95**:5798-5808. 2008.
10. Dantzig, J.A., Higuchi, H., and Goldman, Y.E. Studies of Molecular Motors using Caged Compounds. *Methods in Enzymology*, **291**:307-334. 1998.
11. Dantzig, J.A., Liu, T.Y., and Goldman, Y.E. Functional Studies of Individual Myosin Molecules. *Ann. N.Y. Acad. Sci.*, **1080**:1-18. 2006
12. Dantzig, J.A. and Goldman, Y.E. Muscle. Book Chapter: *Textbook of Rheumatology*. 4th Ed., W.N. Kelley, E.D. Harris, S. Ruddy and C.B. Sledge (eds.), W.B. Saunders Company, Philadelphia, PA. **1**:81-88. 1993.
13. Dantzig, J.A. and Goldman, Y.E. *Arthritis Surgery*, Chapter 6: Muscle, 1st Ed., C.B. Sledge, S. Ruddy E.D. Harris, and W.N. Kelley (eds.), W.B. Saunders Company, Philadelphia, PA. **1**:94-101. 1994.
14. Barsotti, R.J., Dantzig, J.A., and Goldman, Y.E. Myosin Isoforms Show Different Strokes for Different Blokes. *Nature Struc. Biol.*, **3**: 737-739. 1996.
15. Dantzig, J.A. and Goldman, Y.E. Muscle. Book Chapter: *Textbook of Rheumatology*. 5th Ed., W.N. Kelley, E.D. Harris, S. Ruddy and C.B. Sledge (eds), W.B. Saunders Company, Philadelphia, PA. **1**:76-85, 1997.

16. Dantzig, J.A. and Goldman, Y.E. Muscle. Skeletal Muscle. In: *Textbook of Rheumatology*. 6th Ed., S. Ruddy, E.D. Harris, and C.B. Sledge (eds.), W.B. Saunders Company, Philadelphia, PA. 1:1261-1272, 2001.
17. Goldman, Y.E and Dantzig, J.A. Muscle: Anatomy, Physiology and Biochemistry. Book Chapter: *Textbook of Rheumatology*. 7th Ed, E.D. Harris Jr., R.C. Budd, M.C. Genovese, G.S. Firestein, J.S. Sargent, C.B. Sledge, and S. Ruddy (eds.), W.B. Saunders Company, Philadelphia, PA. 1:82-94, 2005.
18. Dantzig J.A., Liu T.Y., and Goldman Y.E. Functional Studies of Individual Myosin Molecules. *Ann. N. Y. Acad. Sci.*, 1080:1-18. 2006.
19. Caremani M., Dantzig J., Goldman Y.E., Lombardi V., and Linari M. Effect of inorganic phosphate on the force and number of myosin cross-bridges during the isometric contraction of permeabilized muscle fibers from rabbit psoas. *Biophys. J.* **95**:5798-5808. 2008.
20. Dantzig, J.A., Pacheco-Pinedo, E.C., and Goldman, Y.E. Muscle: Anatomy, Physiology and Biochemistry, *Textbook of Rheumatology*. 8th Ed., G.S. Firestein, R.C. Budd, E.D. Harris Jr., I.B. McInnes, S. Ruddy and J.S. Sargent (eds.), W.B. Saunders Company, Philadelphia, PA. 1:93-106, 2009.