

Andrew C. Zygmunt, Ph.D.

Research Scientist

Portland State University	B.S.	1981	Biology
Portland State University	M.S.	1985	Biology
Oregon Health Sciences University	Ph.D.	1989	Physiology

POSITIONS HELD

6/82 - 10/82	Research Assistant, Portland State University
10/82 - 6/84	Research Assistant, Linfield College
5/89 - 7/91	Postdoctoral Associate, University of Vermont College of Medicine
7/91 - 7/92	Research Associate, University of Vermont College of Medicine
9/93 - 10/95	Adjunct Research Assistant Professor, SUNY Health Science Center at Syracuse
7/92 - present	Research Scientist, Masonic Medical Research Laboratory

ACADEMIC AND PROFESSIONAL HONORS

American Heart Association Summer Fellowship 1984
Dean's Award 1984 (OHSU)
Tartar Trust Fellowship 1985 (OHSU)
National Research Service Award 1989 - 1990
American Heart Association Fellowship 1991 - 1992
Gordon K. Moe Young Investigator Award (AHA/NYS) 1992

PUBLICATIONS:

Zygmunt, A.C.; and Maylie, J. (1990) Stimulation-dependent facilitation of high threshold calcium current in guinea-pig ventricular myocytes. *J. Physiol.* 428:653-671

Zygmunt, A.C.; and Gibbons, W.R. (1991) A calcium-activated chloride current in rabbit ventricular myocytes. *Circ. Res.* 68:424-437

Gibbons, W.R.; and Zygmunt, A.C. (1991) Excitation-contraction coupling in the heart. In *The Heart and Cardiovascular System -- Scientific Foundations*, 2nd Edition, eds. H.A. Fozzard, E. Haber, R.B. Jennings, A.M. Katz, and H.E. Morgan. Raven Press, NY. Pp. 1249-1279

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- Zygmunt, A.C.; Goodrow, R.J.; and Antzelevitch, C. (1997) Sodium effects on 4-aminopyridine-sensitive transient outward current in canine ventricular cells. *Am. J. Physiol.* 272 (Heart Circ. Physiol. 41): H1-H11.
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- Zygmunt, A.C.; Goodrow, R.J.; and Weigel, C.M. (1998) I_{NaCa} and $I_{Cl(Ca)}$ contribute to isoproterenol-induced delayed afterdepolarizations in midmyocardial cells. *Am. J. Physiol.* 275(Heart Circ. Physiol. 44): H1979-H1992.
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- Antzelevitch C., Yan G-X., Shimizu W., Sicouri S., Eddlestone G., Zygmunt A. C. (2000) Electrophysiologic characteristics of M cells and their role in arrhythmias. *In: Monophasic Action Potentials: Bridging cell and bedside.* Franz, M.R. Futura Publishing C., New York, pages 583-604.
- Zygmunt, A.C.; Goodrow, R.J.; and Antzelevitch, C. (2000) I_{NaCa} contributes to electrical heterogeneity within the canine ventricle. *Am. J. Physiol. Heart Circ. Physiol.* 278: H1671-H1678.
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- Antzelevitch, C.; Zygmunt, A. C.; Fish, J.; Perez, G.; and Scornik, F. (2003) How do we measure repolarization inside the heart? *In: Cardiac Repolarization. Bridging Basic and Clinical Science.* I. Gussak and C. Antzelevitch, eds. Humana Press, NY, pages 91-110.

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Antzelevitch C, Belardinelli L, Zygmunt AC, Burashnikov A, Di Diego JM, Fish JM, Cordeiro JM. (2004) Electrophysiologic Properties of Ranolazine: A Novel Anti-Anginal Agent with Antiarrhythmic Properties. Circulation, 110:904-910

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Sicouri,S.; Timothy,K.W.; Zygmunt,A.C.; Glass,A.; Goodrow,R.J.; Belardinelli,L.; Antzelevitch,C. (in press) Cellular Basis for the Electrocardiographic and Arrhythmic Manifestations of Timothy Syndrome. The Effects of Ranolazine. Heart Rhythm.