

# **PROFESSIONAL CV**

**ANTONIO ZAZA, M.D.**

**Vital:**

Born: Milano, January 13, 1956

Citizenship: Italian

Italian fiscal code: ZZANTN56A13F205K

U.S. Social Security Number (S.S.N.): 143 80 51 37

**Education:**

1981: Graduation in Medicine (Università degli Studi di Milano)

1983: Board in Cardiology (Università degli Studi di Milano)

1982/86: Research Fellow (Centro di Fisiologia Clinica e Ipertensione, Università degli Studi di Milano)

1986/89: Post-doctoral Research Scientist (Dept. of Pharmacology, Columbia University, New York).

Foreign languages: English, Spanish

**Academic:**

1990-00 : Assistant Professor of Physiology (Università degli Studi di Milano and Milano-Bicocca)

2000- : Professor of Physiology (Università degli Studi Milano-Bicocca)

2004-06 : Vice-Chairman of the Dept. of Biotechnology and Bioscience (Università degli Studi Milano-Bicocca)

2006-09 : Chairman of the Graduation Course in Biology (Università degli Studi Milano-Bicocca).

2004- : Faculty member of the PhD School in Translational Medicine (DIMET)

2004- : Faculty member of the Master Course in Clinical Cardiac Electrophysiology of Università dell'Insubria.

2007- : Faculty member of the EP Preparatory Course of the European Heart Rhythm Association

2013- . Coordinator of the specialty school in Sport Medicine, Univ. Milano Bicocca

Invited external member in PhD thesis-committees of national and foreign universities (Amsterdam, Utrecht, Copenhagen, Edimburgh).

**Affiliations:**

European Working Group of Cardiac Cellular Electrophysiology (nucleus member)

Fellow of the European Society of Cardiology (ESC)

Member of the European Heart Rhythm Association (EHRA)

Member of the Biophysical Society (BPS)

Member of the Società Italiana di Fisiologia (SIF)

**Participation to international organizations:**

2002-2004: Vice-chair of the Working Group on Cardiac Cellular Electrophysiology of the European Society of Cardiology (ESC)

2004-2006: Chair of the Working Group on Cardiac Cellular Electrophysiology of the European Society of Cardiology (ESC)

- 2005-2009: Member of the educational committee of the European Heart Rhythm Association (EHRA).
- 2007- : Member of the European Relation Committee for Research of the European Society of Cardiology (ESC)
- 2010- : Member of the Scientific Program Committee of the European Heart Rhythm Association (EHRA)

### **Editorial Activity**

Deputy Editor of *Europace* (official journal of the European Heart Rhythm Association);

Editorial Board member, *Journal of Cardiovascular Pharmacology*.

Reviewer for international journals in the field of cardiovascular cell physiology and pharmacology (*Cardiovasc. Res.*, *Circulation*, *Circ.Res.*, *J. Physiol*, *J Pharmacol. Exp Ther*, *J.Mol.Cell.Cardiol.* etc.).

Referee for national and foreign (Israel, Spain, Holland) funding agencies.

***Indexed publications:*** 86 (*Medline indexed*)

***Reviews and book chapters:*** 32

***Books (as Editor):*** 2

### **Funding:**

The laboratory directed by Dr. Zaza works on both public and private funding. Grants from public agencies include:

- 2004- European FP6 Strategic Project “SC&CR”: “Application and process optimization of human cells for cardiac repair”
- 2005- MIUR Interlink Collaborative Project with INSERM U-637, Montpellier FR
- 2007- Contract with the Ministry of University and Research (MIUR) for an investigation on the myocardial effects of chronic hypoxia.
- 2007- CARIPLO grant on “In vitro gene therapy in cardiac stem cells for the rescue of an hereditary cardiomyopathy ”.
- 2011- MIUR-PRIN grant 2010BWY8E9\_005 title “Induced pluripotent stem-cells and modifier genes in a large founder population: the magic mix to understand and modulate the highly variable risk for sudden death in the Long QT Syndrome”

**Field of expertise:** Cardiac cell pathophysiology and pharmacology, with a focus on: mechanisms of cardiac pacemaking, mechanisms of cardiac repolarization, intracellular calcium dynamics and excitation-contraction coupling.

## MEDLINE-INDEXED PUBLICATIONS

1. A. Zaza. Electrophysiology meets geometry. *Europace.*, 2015 (in press)
2. C. Altomare, C. Bartolucci, L. Sala, J. Bernardi, G. Mostacciolo, M. Rocchetti, S. Severi, and A. Zaza. IKr Impact on Repolarization and Its Variability Assessed by Dynamic Clamp. *Circ.Arrhythm.Electrophysiol.* 8 (5):1265-1275, 2015.
3. da Silva Dias, V, E. Tobaldini, M. Rocchetti, M. A. Wu, G. Malfatto, N. Montano, and A. Zaza. Modulation of sympathetic activity and heart rate variability by ivabradine. *Cardiovasc.Res.* 108 (1):31-38, 2015.
4. C. E. Clancy, Y. Chen-Izu, D. M. Bers, L. Belardinelli, P. A. Boyden, L. Csernoch, S. Despa, B. Fermini, L. C. Hool, L. Izu, R. S. Kass, W. J. Lederer, W. E. Louch, C. Maack, A. Matiazzi, Z. Qu, S. Rajamani, C. M. Rippinger, O. M. Sejersted, B. O'Rourke, J. N. Weiss, A. Varro, and A. Zaza. Deranged sodium to sudden death. *J.Physiol* 593 (6):1331-1345, 2015.
5. D. H. Lau, P. G. Volders, P. Kohl, F. W. Prinzen, A. Zaza, S. Kaab, A. Oto, and U. Schotten. Opportunities and challenges of current electrophysiology research: a plea to establish 'translational electrophysiology' curricula. *Europace.* 17 (5):825-833, 2015.
6. F. Pisano, C. Altomare, E. Cervio, L. Barile, M. Rocchetti, M. C. Ciuffreda, G. Malpasso, F. Copes, M. Mura, P. Danieli, G. Viarengo, A. Zaza, and M. Gnechi. Combination of miRNA499 and miRNA133 exerts a synergic effect on cardiac differentiation. *Stem Cells* 33 (4):1187-1199, 2015.
7. C. Moreno, Cruz A. de la, A. Oliveras, S. R. Kharche, M. Guizy, N. Comes, T. Stary, C. Ronchi, M. Rocchetti, I. Baro, G. Loussouarn, A. Zaza, S. Severi, A. Felipe, and C. Valenzuela. Marine n-3 PUFAs modulate IKs gating, channel expression, and location in membrane microdomains. *Cardiovasc.Res.* 105 (2):223-232, 2015.
8. C. Bartolucci, C. Altomare, M. Bennati, S. Furini, A. Zaza, and S. Severi. Combined action potential- and dynamic-clamp for accurate computational modelling of the cardiac IKr current. *J.Mol.Cell Cardiol.* 79:187-194, 2015.
9. A. Zaza and M. Rocchetti. Calcium store stability as an antiarrhythmic endpoint. *Curr.Pharm.Des* 21 (8):1053-1061, 2015.
10. R. Rizzetto, M. Rocchetti, L. Sala, C. Ronchi, A. Villa, M. Ferrandi, I. Molinari, F. Bertuzzi, and A. Zaza. Late sodium current (INaL) in pancreatic beta-cells. *Pflugers Arch.* 467 (8):1757-1768, 2015.
11. M. Rocchetti, L. Sala, R. Rizzetto, L. I. Staszewsky, M. Alemanni, V. Zambelli, I. Russo, L. Barile, L. Cornaghi, C. Altomare, C. Ronchi, G. Mostacciolo, J. Lucchetti, M. Gobbi, R. Latini, and A. Zaza. Ranolazine prevents INaL enhancement and blunts myocardial remodelling in a model of pulmonary hypertension. *Cardiovasc.Res.* 104 (1):37-48, 2014.
12. F. Fumagalli, I. Russo, L. Staszewsky, Y. Li, T. Letizia, S. Masson, D. Novelli, M. Rocchetti, M. Canovi, P. Veglianese, M. Gobbi, R. Latini, A. Zaza, and G. Ristagno. Ranolazine ameliorates postresuscitation electrical instability and myocardial dysfunction and improves survival with good neurologic recovery in a rat model of cardiac arrest. *Heart Rhythm.* 11 (9):1641-1647, 2014.
13. S. Severi, B. Rodriguez, and A. Zaza. Computational cardiac electrophysiology is moving towards translation medicine. *Europace.* 16 (5):703-704, 2014.

14. S. Severi, B. Rodriguez, and A. Zaza. Computational cardiac electrophysiology is ready for prime time. *Europace*. 16 (3):382-383, 2014.
15. J. Heijman, A. Zaza, D. M. Johnson, Y. Rudy, R. L. Peeters, P. G. Volders, and R. L. Westra. Determinants of beat-to-beat variability of repolarization duration in the canine ventricular myocyte: a computational analysis. *PLoS.Comput.Biol.* 9 (8):e1003202, 2013.
16. C. Altomare, L. Barile, M. Rocchetti, L. Sala, S. Crippa, M. Sampaolesi, and A. Zaza. Altered functional differentiation of mesoangioblasts in a genetic myopathy. *J.Cell Mol.Med.* 17 (3):419-428, 2013.
17. A. Zaza and M. Rocchetti. The late Na<sup>+</sup> current--origin and pathophysiological relevance. *Cardiovasc.Drugs Ther.* 27 (1):61-68, 2013.
18. V. Guida, R. Ferese, M. Rocchetti, M. Bonetti, A. Sarkozy, S. Cecchetti, V. Gelmetti, F. Lepri, M. Copetti, G. Lamorte, Digilio M. Cristina, B. Marino, A. Zaza, J. den Hertog, B. Dallapiccola, and A. De Luca. A variant in the carboxyl-terminus of connexin 40 alters GAP junctions and increases risk for tetralogy of Fallot. *Eur.J.Hum.Genet.* 21 (1):69-75, 2013.
19. R. Rizzi, E. Di Pasquale, P. Portararo, R. Papait, P. Cattaneo, M. V. Latronico, C. Altomare, L. Sala, A. Zaza, E. Hirsch, L. Naldini, G. Condorelli, and C. Bearzi. Post-natal cardiomyocytes can generate iPS cells with an enhanced capacity toward cardiomyogenic re-differentiation. *Cell Death.Differ.* 19 (7):1162-1174, 2012.
20. L. Barile, C. Altomare, and A. Zaza. Induced pluripotent stem cells: progress towards a biomedical application. *Expert.Rev.Cardiovasc.Ther.* 9 (10):1265-1269, 2011.
21. A. Zaza. [The late sodium current: pathophysiology and pharmacology of a new therapeutic target]. *G.Ital.Cardiol.(Rome)* 12 (10 Suppl 2):3S-11S, 2011.
22. T. Banyasz, L. Barandi, G. Harmati, L. Virag, N. Szentandrassy, I. Marton, A. Zaza, A. Varro, and P. P. Nanasi. Mechanism of reverse rate-dependent action of cardioactive agents. *Curr.Med.Chem.* 18 (24):3597-3606, 2011.
23. S. Crippa, M. Cassano, G. Messina, D. Galli, B. G. Galvez, T. Curk, C. Altomare, F. Ronzoni, J. Toelen, R. Gijsbers, Z. Debyser, S. Janssens, B. Zupan, A. Zaza, G. Cossu, and M. Sampaolesi. miR669a and miR669q prevent skeletal muscle differentiation in postnatal cardiac progenitors. *J.Cell Biol.* 193 (7):1197-1212, 2011.
24. S. Marangoni, C. Di Resta, M. Rocchetti, L. Barile, R. Rizzetto, A. Summa, S. Severi, E. Sommariva, C. Pappone, M. Ferrari, S. Benedetti, and A. Zaza. A Brugada syndrome mutation (p.S216L) and its modulation by p.H558R polymorphism: standard and dynamic characterization. *Cardiovasc.Res.* 91 (4):606-616, 2011.
25. M. Alemanni, M. Rocchetti, D. Re, and A. Zaza. Role and mechanism of subcellular Ca<sup>2+</sup> distribution in the action of two inotropic agents with different toxicity. *J.Mol.Cell Cardiol.* 50 (5):910-918, 2011.
26. A. Macias, C. Moreno, J. Moral-Sanz, A. Cogolludo, M. David, M. Alemanni, F. Perez-Vizcaino, A. Zaza, C. Valenzuela, and T. Gonzalez. Celecoxib blocks cardiac Kv1.5, Kv4.3 and Kv7.1 (KCNQ1) channels: effects on cardiac action potentials. *J.Mol.Cell Cardiol.* 49 (6):984-992, 2010.
27. I. Rivolta, V. Lucchini, M. Rocchetti, F. Kolar, F. Palazzo, A. Zaza, and G. Miserocchi. Interstitial pressure and lung oedema in chronic hypoxia. *Eur.Respir.J.* 37 (4):943-949, 2011.

28. C. Altomare, L. Barile, S. Marangoni, M. Rocchetti, M. Alemanni, G. Mostacciuolo, A. Giacomello, E. Messina, and A. Zaza. Caffeine-induced  $\text{Ca}^{2+}$  signaling as an index of cardiac progenitor cells differentiation. *Basic Res.Cardiol.* 105 (6):737-749, 2010.
29. G. Malfatto, M. Rocchetti, and A. Zaza. The role of the autonomic system in rate-dependent repolarization changes. *Heart Rhythm.* 7 (11):1700-1703, 2010.
30. L. Barandi, L. Virag, N. Jost, Z. Horvath, I. Koncz, R. Papp, G. Harmati, B. Horvath, N. Szentandrassy, T. Banyasz, J. Magyar, A. Zaza, A. Varro, and P. P. Nanasi. Reverse rate-dependent changes are determined by baseline action potential duration in mammalian and human ventricular preparations. *Basic Res.Cardiol.* 105 (3):315-323, 2010.
31. L. Cipolla, C. Redaelli, F. Granucci, G. Zampella, A. Zaza, R. Chisci, and F. Nicotra. Straightforward synthesis of novel Akt inhibitors based on a glucose scaffold. *Carbohydr.Res.* 345 (10):1291-1298, 2010.
32. A. Zaza. Control of the cardiac action potential: The role of repolarization dynamics. *J.Mol.Cell Cardiol.* 48 (1):106-111, 2010.
33. T. Banyasz, B. Horvath, L. Virag, L. Barandi, N. Szentandrassy, G. Harmati, J. Magyar, S. Marangoni, A. Zaza, A. Varro, and P. P. Nanasi. Reverse rate dependency is an intrinsic property of canine cardiac preparations. *Cardiovasc.Res.* 84 (2):237-244, 2009.
34. I. Zanoni, R. Ostuni, G. Capuano, M. Collini, M. Caccia, A. E. Ronchi, M. Rocchetti, F. Mingozzi, M. Foti, G. Chirico, B. Costa, A. Zaza, P. Ricciardi-Castagnoli, and F. Granucci. CD14 regulates the dendritic cell life cycle after LPS exposure through NFAT activation. *Nature* 460 (7252):264-268, 2009.
35. S. Severi, C. Corsi, M. Rocchetti, and A. Zaza. Mechanisms of beta-adrenergic modulation of  $\text{I}(\text{Ks})$  in the guinea-pig ventricle: insights from experimental and model-based analysis. *Biophys.J.* 96 (9):3862-3872, 2009.
36. L. Virag, K. Acsai, O. Hala, A. Zaza, M. Bitay, G. Bogats, J. G. Papp, and A. Varro. Self-augmentation of the lengthening of repolarization is related to the shape of the cardiac action potential: implications for reverse rate dependency. *Br.J.Pharmacol.* 156 (7):1076-1084, 2009.
37. A. Zaza. Serum potassium and arrhythmias. *Europace.* 11 (4):421-422, 2009.
38. E. Grandi, F. S. Pasqualini, C. Pes, C. Corsi, A. Zaza, and S. Severi. Theoretical investigation of action potential duration dependence on extracellular  $\text{Ca}^{2+}$  in human cardiomyocytes. *J.Mol.Cell Cardiol.* 46 (3):332-342, 2009.
39. A. Zaza, L. Belardinelli, and J. C. Shryock. Pathophysiology and pharmacology of the cardiac "late sodium current.". *Pharmacol.Ther.* 119 (3):326-339, 2008.
40. M. Rocchetti, M. Alemanni, G. Mostacciuolo, P. Barassi, C. Altomare, R. Chisci, R. Micheletti, P. Ferrari, and A. Zaza. Modulation of sarcoplasmic reticulum function by PST2744 [istaroxime; (E,Z)-3-((2-aminoethoxy)imino) androstane-6,17-dione hydrochloride]] in a pressure-overload heart failure model. *J.Pharmacol.Exp.Ther.* 326 (3):957-965, 2008.
41. I. C. Van Gelder, G. Boriani, S. Ernst, H. Heidbuchel, A. Zaza, M. Makijarvi, B. Gorenek, and C. B. Lundquist. Case of the month by the EHRA Education committee: exercise-related arrhythmias. *Europace.* 10 (2):235-7, 256, 2008.

42. I. C. Van Gelder, G. Boriani, S. Ernst, H. Heidbuchel, A. Zaza, M. Makijarvi, B. Gorenek, and C. B. Lundquist. Case of polymorphic ventricular tachycardia after stroke necessitating defibrillation. *Europace*. 10 (1):77-78, 2008.
43. G. Malfatto, A. Zaza, and M. Facchini. Different effects of antiarrhythmic drugs on the rate-dependency of QT interval: a study with amiodarone and flecainide. *J.Cardiovasc.Pharmacol*. 50 (5):535-540, 2007.
44. J. M. de Bakker and A. Zaza. Special issue on biopacemaking: clinically attractive, scientifically a challenge. *Med.Biol.Eng Comput*. 45 (2):115-118, 2007.
45. M. Rocchetti, V. Freli, V. Perego, C. Altomare, G. Mostacciuolo, and A. Zaza. Rate dependency of beta-adrenergic modulation of repolarizing currents in the guinea-pig ventricle. *J.Physiol* 574 (Pt 1):183-193, 2006.
46. M. Rocchetti, A. Besana, G. Mostacciuolo, R. Micheletti, P. Ferrari, S. Sarkozi, C. Szegedi, I. Jona, and A. Zaza. Modulation of sarcoplasmic reticulum function by Na<sup>+</sup>/K<sup>+</sup> pump inhibitors with different toxicity: digoxin and PST2744 [(E,Z)-3-((2-aminoethoxy)imino)androstane-6,17-dione hydrochloride]. *J.Pharmacol.Exp.Ther*. 313 (1):207-215, 2005.
47. P. Vanelli, S. Beltrami, E. Cesana, D. Cicero, A. Zaza, E. Rossi, F. Cicirata, C. Antona, and A. Clivio. Cardiac precursors in human bone marrow and cord blood: in vitro cell cardiogenesis. *Ital.Heart J*. 5 (5):384-388, 2004.
48. G. Malfatto, M. Facchini, and A. Zaza. Characterization of the non-linear rate-dependency of QT interval in humans. *Europace*. 5 (2):163-170, 2003.
49. M. Rocchetti, A. Besana, G. Mostacciuolo, P. Ferrari, R. Micheletti, and A. Zaza. Diverse toxicity associated with cardiac Na<sup>+</sup>/K<sup>+</sup> pump inhibition: evaluation of electrophysiological mechanisms. *J.Pharmacol.Exp.Ther*. 305 (2):765-771, 2003.
50. R. Micheletti, G. G. Mattera, M. Rocchetti, A. Schiavone, M. F. Loi, A. Zaza, R. J. Gagnol, S. De Munari, P. Melloni, P. Carminati, G. Bianchi, and P. Ferrari. Pharmacological profile of the novel inotropic agent (E,Z)-3-((2-aminoethoxy)imino)androstane-6,17-dione hydrochloride (PST2744). *J.Pharmacol.Exp.Ther*. 303 (2):592-600, 2002.
51. A. Zaza. CVT-510 (CV Therapeutics). *Curr.Opin.Investig.Drugs* 3 (1):96-100, 2002.
52. A. Zaza and G. Malfatto. Is the heart period a linear gauge of autonomic neural activity? *Ital.Heart J*. 2 (8):577-581, 2001.
53. M. Rocchetti, A. Besana, G. B. Gurrola, L. D. Possani, and A. Zaza. Rate dependency of delayed rectifier currents during the guinea-pig ventricular action potential. *J.Physiol* 534 (Pt 3):721-732, 2001.
54. A. Zaza and F. Lombardi. Autonomic indexes based on the analysis of heart rate variability: a view from the sinus node. *Cardiovasc.Res*. 50 (3):434-442, 2001.
55. M. Rocchetti, G. Malfatto, F. Lombardi, and A. Zaza. Role of the input/output relation of sinoatrial myocytes in cholinergic modulation of heart rate variability. *J.Cardiovasc.Electrophysiol*. 11 (5):522-530, 2000.
56. M. Rocchetti, A. Armato, B. Cavalieri, M. Micheletti, and A. Zaza. Lidocaine inhibition of the hyperpolarization-activated current (I<sub>f</sub>) in sinoatrial myocytes. *J.Cardiovasc.Pharmacol*. 34 (3):434-439, 1999.

57. G. B. Gurrola, B. Rosati, M. Rocchetti, G. Pimienta, A. Zaza, A. Arcangeli, M. Olivotto, L. D. Possani, and E. Wanke. A toxin to nervous, cardiac, and endocrine ERG K<sup>+</sup> channels isolated from *Centruroides noxius* scorpion venom. *FASEB J.* 13 (8):953-962, 1999.
58. B. Rosati, M. Rocchetti, A. Zaza, and E. Wanke. Sulfonylureas blockade of neural and cardiac HERG channels. *FEBS Lett.* 440 (1-2):125-130, 1998.
59. R. Budriesi, G. Aicardi, G. Campana, S. Spampinato, A. Zaza, A. Bisi, A. Rampa, P. Valenti, and A. Chiarini. Selective cardiodepressant activity of fludipine, a fluorenone-1,4-dihydropyridine derivative. *Eur.J.Pharmacol.* 359 (2-3):161-170, 1998.
60. A. Zaza, M. Rocchetti, A. Brioschi, A. Cantadori, and A. Ferroni. Dynamic Ca<sup>2+</sup>-induced inward rectification of K<sup>+</sup> current during the ventricular action potential. *Circ.Res.* 82 (9):947-956, 1998.
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62. G. Malfatto, A. Zaza, E. Vanoli, and P. J. Schwartz. Muscarinic effects on action potential duration and its rate dependence in canine Purkinje fibers. *Pacing Clin.Electrophysiol.* 19 (11 Pt 2):2023-2026, 1996.
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64. A. Zaza, R. B. Robinson, and D. DiFrancesco. Basal responses of the L-type Ca<sup>2+</sup> and hyperpolarization-activated currents to autonomic agonists in the rabbit sino-atrial node. *J.Physiol* 491 ( Pt 2):347-355, 1996.
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66. G. Malfatto, A. Zaza, and P. J. Schwartz. Modulation of the electrical restitution of canine Purkinje fibers by local anesthetic drugs: a study with flecainide and propafenone. *Pacing Clin.Electrophysiol.* 17 (11 Pt 2):2074-2078, 1994.
67. A. Zaza, G. Malfatto, and P. J. Schwartz. Diverse electrophysiologic effects of propafenone and flecainide in canine Purkinje fibers: implications for antiarrhythmic drug classification. *J.Pharmacol.Exp.Ther.* 269 (1):336-343, 1994.
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69. G. Malfatto, A. Zaza, and P. J. Schwartz. Parasympathetic control of cycle length dependence of endocardial ventricular repolarisation in the intact feline heart during steady state conditions. *Cardiovasc.Res.* 27 (5):823-827, 1993.
70. P. J. Schwartz and A. Zaza. The Sicilian Gambit revisited--theory and practice. *Eur.Heart J.* 13 Suppl F:23-29, 1992.
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72. A. Zaza, G. Malfatto, and P. J. Schwartz. Sympathetic modulation of the relation between ventricular repolarization and cycle length. *Circ.Res.* 68 (5):1191-1203, 1991.
73. P. J. Schwartz, A. Zaza, E. Locati, and A. J. Moss. Stress and sudden death. The case of the long QT syndrome. *Circulation* 83 (4 Suppl):II71-II80, 1991.
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76. A. Zaza, G. Malfatto, and M. R. Rosen. Electrophysiologic effects of ketanserin on canine Purkinje fibers, ventricular myocardium and the intact heart. *J.Pharmacol.Exp.Ther.* 250 (1):397-405, 1989.
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83. G. Zuanetti, E. Vanoli, A. Zaza, S. Priori, M. Stramba-Badiale, and P. J. Schwartz. Lack of correlation between occlusion and reperfusion arrhythmias in the cat. *Am.Heart J.* 109 (5 Pt 1):932-936, 1985.
84. D. DiFrancesco, A. Ferroni, S. Visentin, and A. Zaza. Cadmium-induced blockade of the cardiac fast Na channels in calf Purkinje fibres. *Proc.R.Soc.Lond B Biol.Sci.* 223 (1233):475-484, 1985.
85. A. Zaza and P. J. Schwartz. Role of the autonomic nervous system in the genesis of early ischemic arrhythmias. *J.Cardiovasc.Pharmacol.* 7 Suppl 5:S8-12, 1985.
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