

MARIO VASSALLE

**CURRICULUM VITAE**

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MARIO VASSALLE

### PERSONAL

Born: Viareggio, Tuscany, Italy, 26 May 1928.  
Married: Anna Maria Petrucci  
Children: Andrew G., Alessandra A., Massimo B., Roberto M., Francesca A.

### EDUCATION:

Undergraduate: Liceo-Ginnasio G. Carducci, Viareggio, B.A. 1947

Graduate: University of Pisa, Medical School, M.D. cum Laude, 1953  
University of Pisa, Medical School, Specialization in Cardiology cum Laude, 1955.

### TRAINING AND TEACHING EXPERIENCE

Medical Internship, Istituto di Medicine and Cardiology, University of Pisa Medical School, 1953-1955.

Assistant, Istituto di Patologia Medica, University of Pisa Medical School, 1956-1958.

Acting Chief Resident in Medicine, French Hospital, New York City, 1958-1959.

Trainee, Cardiovascular Research and Training Program, Department of Physiology, Medical College of Georgia, Augusta, Ga., 1959-1960 (Dr. W.F. Hamilton).

Postdoctoral Fellow, Department of Physiology, State University of New York, Downstate Medical Center, Brooklyn, NY 1960-1961. (Dr. B. F. Hoffman).

New York Heart Association Fellow, Department of Physiology, State University of New York, Downstate Medical Center, Brooklyn, NY, 1961-1962 (Dr. B. F. Hoffman).

Instructor, Department of Physiology, State University of New York, Downstate Medical Center, Brooklyn, NY, March-Sept., 1962.

N.I.H. Fellow, Physiologisches Institut, University of Bern, Bern, Switzerland, 1962-1964 (Dr. S. Weidmann).

Visiting Assistant Professor, Department of Physiology, State University of New York, Downstate

Medical Center, Brooklyn, NY, 1964-1965.

Assistant Professor, Department of Physiology, State University of New York, Downstate Medical Center, Brooklyn, NY, 1965-1966.

Associate Professor, Department of Physiology, State University of New York, Downstate Medical Center, Brooklyn, NY, 1966-1971.

Professor, Department of Physiology, State University of New York, Downstate Medical Center, Brooklyn, NY, 1971-2006.

Professor Emeritus, Department of Physiology and Pharmacology, State University of New York, Downstate Medical Center, Brooklyn, NY, 2006-.

### VISITING PROFESSOR

Department of General Physiology, University of Ferrara, Italy, January-August 1971.

Department of Physiology and Biophysics, University of Vermont, Burlington, Vermont, January-July 1978.

Department of Medicine, Catholic University Gemelli, Rome, Italy, October 1984-April 1985.

National Defense Medical Center, Taipei, Taiwan, November-December 1983, December 1987, June 1991, November 1992, October 1995, November 1997, November 2000, November 2003.

Instituto Nacional de Cardiologia, Mexico D.F., Mexico, Sept. 1988, Jan. 1989, March 1990, Nov.-Dec. 1991, May-June 1993.

Department of Physiology and Biophysics, State University of New York, Stony Brook, NY, January-July, 1994.

Dipartimento di Biologia Evolutiva e Funzionale - Sezione Fisiologia, Università di Parma, Parma, Italy, June-September, 2007.

### AWARDS:

"E. Menini" Scholarship - 1947

French Hospital Alumni Award - 1959

A. and A. Sinsheimer Fund Award - 1966-1971

New York Health Research Council Award - 1972-1975

Fulbright Travel Grantee - 1958-62

New York State/UUP Excellence Award, 1991

## HONORS:

Council on Basic Sciences of American Heart Association - 1969-  
Libera Docenza in General Physiology, Italy - 1971.  
President, Electrophysiological Group - 1972-1973.  
Board of Directors of the New York Heart Association - 1978-1984.  
President, Downstate Medical Center Chapter of Sigma Xi, 1984.  
Member of (PC)<sup>2</sup> 1971-2000  
Doctorate Honoris Causa, University of Ferrara Italy, 1990.  
Miembro Honorario, Sociedad Mexicana de Cardiología, 1991.  
Gem" lecture at SUNY, HSC Brooklyn: Matters of the Heart: an Electrophysiological View. Dec. 1, 1998.  
Honorary Member, Associazione Nicolò Copernico- Alumni dell'Areneo Estense, Italy.

## LISTED IN:

Who's Who in the East  
American Men and Women of Science  
Dictionary of International Biography  
Men of Achievement  
Who's Who in Science and Engineering  
Who's Who in Medicine and Healthcare  
Who's Who in America  
Who's Who in America, 60th Diamond Anniversary Edition.

## MEMBERSHIP IN SCIENTIFIC SOCIETIES:

American Physiological Society  
Harvey Society  
New York Academy of Sciences  
New York and American Heart Associations  
Cardiac Muscle Society  
Cardiac Electrophysiological Group  
Society of the Sigma Xi  
International Study Group for Research in Cardiac Metabolism

## PRINCIPAL FIELDS OF RESEARCH:

A. Electrophysiology  
B. Cardiovascular Physiology

## INVITED PARTICIPANT TO:

- 1) The Heart and Circulation, Second National Conference on Cardiovascular Disease. Washington, D.C. 1964 "Physiology: Electrophysiology of the Heart".
- 2) Symposium on Potassium and the Heart, Lexington, Ky. 1965.
- 3) Round Table on "Electrical and mechanical factors on normal and abnormal impulse formation" 1970, NIH, Bethesda, Md.

- 4) Symposium on Electrical Correlates of Clinical Arrhythmias, published in Am. J. Cardiology, 1971.
- 5) International Study Group for Research in Cardiac Metabolism, Winnipeg, Canada, 1972.
- 6) International Study Group for Research in Cardiac Metabolism, Quebec, Canada, 1974.
- 7) Electrophysiology Conference, Miami Beach, Florida, 1976.
- 8) Symposium on The Sinus Node. Structure, Function and Clinical Relevance, Maastricht, Holland, 1977.
- 9) Seventh International Congress of Pharmacology, Paris, France, 1978.
- 10) Electrophysiology Conference, Hilton Head, South Carolina, 1978.
- 11) New York Heart Clinical Conference Supraventricular Tachycardias: A Critical Evaluation, New York, NY 1979.
- 12) International Symposium on Atrial Pacemakers, Augusta, Georgia, 1979.
- 13) Symposium on Electrogenic Pumps, Yale University, 1979.
- 14) Workshop in Cardiac Electrophysiology, Buenos Aires, Argentina, 1981.
- 15) New Frontiers of Arrhythmias, Fifth International Congress, Marilleva, Italy, 1982.
- 16) The Eight Asian-Pacific Congress of Cardiology, Taipei, Taiwan, 1983.
- 17) The New Frontiers of Arrhythmias, Sixth International Congress, Marilleva, Italy, 1984.
- 18) International Symposium on Cardiac Arrhythmias, Amelia Island, Florida, May 1984.
- 19) Bethesda Conference #15 Sudden Cardiac Death. Bethesda, Md., June 1984.
- 20) International Symposium "Sick Sinus Syndrome Today" Milan, Italy, 1985.
- 21) International Congress on "Arteriopathies in old age: Clinical and therapeutical problems" Nemi, Italy, 1985.
- 22) The New Frontiers of Arrhythmias, Seventh International Congress, Marilleva, Italy, 1986.
- 23) First International Symposium of Geriatric Cardiology, Naples, Italy, 1986.
- 24) International Symposium on Cardiac Electrophysiology: Past, Present, and Future in Honor of Silvio Weidmann, Bern, Switzerland, September 10/11 1986.
- 25) Second International Symposium of Geriatric Cardiology, Naples, Italy, November 1987.
- 26) The New Frontiers of Arrhythmias, Eight International Congress, Marilleva, Italy, February 1988.
- 27) Lo Scopenso Cardiaco nell'Anziano, Third International Symposium of Geriatric Cardiology, Naples, Italy, November 1989.
- 28) The New Frontiers of Arrhythmias. Ninth International Congress, Marilleva, Italy, February 1990.
- 29) IV Congress of the Interamerican Society for Clinical Pharmacology and Therapeutics, Mexico City, Mexico, September 1990.
- 30) Symposium in Honor of Prof. Brian F. Hoffman, Islamorada, FL, October 1990. Chairman of the Committee on Abnormal Automaticity.
- 31) Fourth International Congress of Geriatric Cardiology, Naples, Italy, November 1991.
- 32) XIV Congreso Nacional de Farmacologia, Mexico City, Mexico, November 1991, Conferencia Magistral: On the mechanism of digitalis inotropy.
- 33) The New Frontiers of Arrhythmias, Tenth International Congress, Marilleva, Italy, February 1992.
- 34) European Working Group of Cardiac Cellular Electrophysiology, 16th Meeting, in Honor of Prof. A. Giotti, Ferrara, Italy, September 1992.
- 35) The New Frontiers of Arrhythmias, 11th International Congress, Marilleva, Italy, February 1994.
- 36) Instituto Nacional de Cardiologia, International Congress for the 50th Anniversary, Mexico City, Mexico, April 1994.
- 37) Italian Society of Cardiovascular Research, Second National Congress, European Joint Session, Parma, Italy, September 1995.
- 38) Symposium on Recent Advances in Studies of Cardiac Ion Channels and Arrhythmias, Tokyo, Japan, October 1995.
- 39) The New Frontiers of Arrhythmias, 12th International Congress, Marilleva, Italy, February 1996.
- 40) The New Frontiers of Arrhythmias, 13th International Congress, Marilleva, Italy, February 1998.

- 41) Italian Society of Cardiovascular Research, Fifth National Congress, Rome, Italy, October 1998.  
Magistral Lecture: Electrophysiology and Cardioprotection.
- 42) The New Frontiers of Arrhythmias, 14th International Congress, Marilleva, Italy, February 2000.
- 43) The New Frontiers of Arrhythmias, 15th International Congress, Marilleva, Italy, April 2002.
- 44) The New Frontiers of Arrhythmias, 16th International Congress, Marilleva, Italy, January 2004.

#### EDITORIAL APPOINTMENTS:

Associate Editor - American Journal of Physiology: Heart and Circulatory Physiology, 1976-1980.  
Editorial Board - Circulation Research, 1974-1980,  
- European J. Pharmacology, 1985-1990  
- J. Electrocardiology, 1985-2006  
- New Trends in Arrhythmias, 1985-1997, Associate Editor, 1992-1997  
- Journal of Biomedical Science, 1993-

#### EDITORIAL CONSULTANT

American Journal of Physiology  
Circulation  
Circulation Research  
Science  
European Journal of Pharmacology  
Life Sciences  
Journal of Electrocardiology  
Cardiovascular Research  
Experimental Physiology  
Journal of Cardiovascular Pharmacology  
Physiological Research  
Clinical and Experimental Pharmacology and Physiology

#### NIH CONSULTANT

Ad Hoc member of the Pharmacology study section.  
Ad Hoc member NIH Site Visits.  
Member, NIH Cardiopulmonary Study Section, 1981-1985.  
Ad Hoc member NIH Cardiopulmonary Study Section, February, 1988.

#### LOCAL COMMITTEE MEMBERSHIP

Committee on Academic and Professional Qualifications, 1970-1972.  
Departmental Committee on Academic and Professional Qualifications, 1973-1976, Chairman.  
Committee of the Faculty of the School of Graduate Studies, 1972-1974, 1977-1980.  
Committee of the Faculty and Professional Staff, 1973-1975.  
Committee on Educational Policy and Curriculum Integration, 1973, Chairman.  
Departmental Finance Committee, 1975-1976, 1977-1978.  
DMC Cardiac Group, President, 1976-1977.  
Departmental Committee on Academic and Professional Qualifications, 1981-1983.  
Committee of the Education Policy and Curriculum, 1985-1987.

Committee on Small Grants, 1986-1990  
 Presiding member of an Ad Hoc Committee for CAPQ, 1986.  
 Fourth-year Basic Science-Clinical Correlations Committee, 1986.  
 Animal Care and Utilization Committee, 1986-1990.  
 Committee on Academic and Professional Qualifications, 1987-1990  
 Ad Hoc Committee for CAPQ, Chairman, 1988.  
 Technical Advisory Committee, Animal Facilities 1990-  
 Committee on Academic and Professional Qualifications, Graduate School, 1990-  
 Continuing Medical Education Advisory Committee, 1990-  
 Liaison Member for the Faculty Assembly, 1990-1992  
 Liaison Member for the Search Committee for the Physiology Chair, 1989-1994  
 Committee for the comprehensive examination of Physiology graduate student, 1990.  
 Presiding Member for the Thesis Committee for G. Condemi, 1991.  
 Graduate Faculty Council, 1988-  
 Committee for C. McC. Brooks Summer Research Fellowships, 1990-  
 Committee for Schoolwide Summer Research Fellowship for Medical Students, 1992.  
 Pharmacology Committee for comprehensive examination, 1990.  
 Committee for the selection of Graduate Students Fellowships, 1992.  
 Ad Hoc Committee for the CAPQ, June 1992.  
 Admission Committee of the Graduate Program in Physiology.  
 Committee on Academic and Professional Qualifications, 1994-1997.  
 Ad Hoc Committee for the CAPQ, June 1996.  
 Transition Committee of the Graduate School 1997.  
 Ad Hoc Committee for the CAPQ, February 1998.  
 Presiding Member for the Thesis Committee for Boyu Huang, 1998.  
 Presiding Member for the Thesis Committee for Jianxin Shi, 1998.  
 Presiding Member for the Thesis Committee for Jian Feng, 1998.  
 Presiding Member for the Thesis Committee for Jianxin Shen, 1998.  
 Ad Hoc Committee for the CAPQ, Dec.1999.  
 Presiding Member for the Thesis Committee for Guang Xiao, 2002.  
 Director of the Graduate Program in Physiology and Biophysics 1996-1998.

## **PUBLICATIONS**

### **BOOKS**

1. Research in Physiology - A Liber Memorialis in Honor of Prof. C. McC. Brooks; edited by F.F. Kao, K. Koizumi and M. Vassalle. A. Gaggi, Publisher, Bologna, Italy, 1971.
2. Cardiac Physiology for the Clinician, edited by M. Vassalle, Academic Press, New York, 1976.
- 2a. Cardiac Physiology for the Clinician, edited by M. Vassalle, translated in Chinese in 1978.
3. Excitation and Neural Control of the Heart, edited by M. N. Levy and M. Vassalle. American Physiological Society, Bethesda, Maryland. 1982.
4. "Chandler McCuskey Brooks: The Scientist and The Man", edited by M. Vassalle. State University of New York, Health Science Center at Brooklyn, 1990.

5. Vassalle, M. *Diario di un Fisiologo del Cuore*. New York, 1992. (Includes philosophical essays. (Published by the author).
6. Vassalle, M. *Emozioni perdute/Lost Emotions*. New York, 1994. (Poems in Italian and in the English version, published by the author).
7. Vassalle, M. *L'Enigma della Mente: Aforismi/ The Riddle of the Mind: Aphorisms*. New York, 1996. (Aphorisms in Italian and in the English version, published by the author).
8. Vassalle, M. *La Realtà dell'Io: Aforismi/ The Reality of the Self: Aphorisms*. New York 2000. (Aphorisms in Italian and in the English version, published by the author).
- 8b Vassalle, M. *La Realtà dell'Io: Aforismi*. Editing s.a.s., Treviso, 2006. (Italian version only)
9. Vassalle, M., *Dune/Dunes*. New York, 2001. (Poems in Italian and in the English version, published by the author).
10. Vassalle, M., *Penombre/Twilight*s. New York, 2003. (Poems in Italian and in the English version, published by the author).
11. Vassalle, M. *Non Sempre/Not Always*. New York 2004. (Poems in Italian and in the English version, published by the author).
- 11b. Vassalle, M. *Non Sempre*..Editing s.a.s., Treviso, 2005. (Poems in the Italian version)
12. Vassalle, M. *Foglie d'Autunno*. Maremmi Libri, Firenze, 2006. (Aphorisms and Reflections, published in the Italian version).
13. Vassalle, M. *Le Radici del Cielo*. Maremmi Libri Firenze, 2008. (Poems in the Italian version).
14. Vassalle, M. *Conchiglie/Sea Shells*. Aphorisms in Italian and in the English version. Unpublished

## **REVIEWS AND CHAPTERS**

1. Vassalle, M. Automaticity and automatic rhythms. *Am. J. Cardiol.* 28: 245-252, 1971.
2. Vassalle, M. Electrophysiology of the heart cells. In: *Cardiac Physiology for the Clinician*, Ed. M. Vassalle, Academic Press, New York, pp. 1-26, 1976.
3. Vassalle, M. Cardiac Automaticity. In: *Cardiac Physiology for the Clinician*, Ed. M. Vassalle, Academic Press, New York, pp. 27-59. 1976.
4. Vassalle, M. and E. Musso. Therapeutic and toxic actions of digitalis. In: *Cardiac Physiology for the Clinician*, Ed. M. Vassalle, Academic Press, New York, pp. 203-239, 1976.

5. Vassalle, M. Electrophysiological basis of digitalis arrhythmias, Part I. *CVP* 4: 21-23 + p. 37, 1976.
6. Vassalle, M. Electrophysiological basis of digitalis arrhythmias, Part II. *CVP* 5: 25-31 + p. 34, 1977.
7. Vassalle, M. Generation and conduction of impulses in the heart under physiological and pathological conditions. *Pharmac. Ther. B.* 3: 1-39, 1977.
8. Vassalle, M. Cardiac automaticity and its control. *Am. J. Physiol. Heart and Circulatory Physiology* 2: H625-H634, 1977.
9. Vassalle, M. The relationship among cardiac pacemakers: overdrive suppression. *Circ. Res.* 41: 269-277, 1977.
10. Vassalle, M. The acceleratory action of the vagus on the sinus node. In: *The Sinus Node. Structure, Function and Clinical Relevance.* Ed. F.I.M. Bonke. M. Nijhoff, BV Publishers, The Hague, 1978, section III: Electrophysiology of the sinus node, pp. 279-289, 1978.
11. Vassalle, M. Arrhythmias caused by cardiac glycosides. In: *Advances in Pharmacology and Therapeutics*, vol. 6, *Clinical Pharmacology* Ed. P. Duchène-Marullaz, Pergamon Press, Oxford and New York, pp. 221-230, 1979.
12. Vassalle, M. Electrogenesis of the plateau and pacemaker potential. *Ann. Rev. Physiol.* 41: 425-440, 1979.
13. Vassalle, M. *The Human Heart.* Carolina Biology Readers, Ed. J.J. Head, Carolina Biological Supply Co., Burlington, N.C. 1979.
14. Vassalle, M. Effect of pharmacological interventions on atrial pacemakers. In: *Physiology of Atrial Pacemakers and Conductive Tissues*, Ed. Robert C. Little, Futura Publishing Co. Inc., New York, pp. 315-337, 1980.
15. Vassalle, M. The role of the slow inward current in impulse formation. In: *The Slow Inward Current and Cardiac Arrhythmias*, Ed. D.P. Zipes, J.C. Bailey and V. Elharrar, The Hague, Martinus Nijhoff Publishers, pp. 127-148, 1980.
16. Vassalle, M. The role of the electrogenic sodium pump in controlling excitability in nerve and cardiac fibers. In: *Electrogenic Ion Pumps*, Ed. C. L. Slayman, Academic Press, New York, pp. 467-483, 1982.
17. Vassalle, M. Cardiac automaticity and its control. In: *Excitation and Neural Control of the Heart.* Ed. M.N. Levy and M. Vassalle, American Physiological Society, Bethesda,

- Maryland, pp. 59-77, 1982..
18. Vassalle, M. Concetti attuali sull'automatismo cardiaco normale e anormale. In: Proceeding 5th Intern. Congress Cardiol: Le Nuove Frontiere delle Aritmie, Vol. IV., Ed. F. Furlanello, R. Bettini, P. Dalforno, M. Disertori, G. Vergara and G. Iname, Piccin Publisher, Padova, Italy, pp. 3-17, 1982.
  19. Vassalle, M. Physiological basis of normal and abnormal automaticity. In: Frontiers of Cardiac Electrophysiology, Ed. M.B. Rosenbaum and M.V. Elizari, Martinus Nijhoff Publishers, Boston, pp. 120-143, 1983.
  20. Vassalle, M. The role of calcium in normal and abnormal cardiac electrogenesis. *Acta Medica Romana*, 21: 226-244, 1983.
  8. Vassalle, M. The mechanism of induction of the oscillatory potential in arrhythmias. In: Proceedings 6th Intern. Congress Cardiol: The New Frontiers of Arrhythmias. Ed. F. Furlanello and M. Disertori, O.I.C. Medical Press, Florence, Italy, pp. 71-78, 1984.
  22. Vassalle, M. Cardiac automaticity in normal and some abnormal conditions. In: Tachycardias, Ed. B. Surawicz, C.P. Reddy and E.N. Prystowsky, pp. 55-65, 1984.
  23. Vassalle, M. Overdrive excitation: The onset of spontaneous activity following a fast drive. In: Cardiac Electrophysiology and Arrhythmias. Ed. D.P. Zipes and J. Jalife. Grune and Stratton, Inc., 1985, pp. 97-107.
  24. Vassalle, M. Effetti biocellulari dei farmaci sul nodo del seno. Proc. Intern. Symposium on "Sick Sinus Syndrome Today" pp 43-50. O.I.C., Milan, Italy. 1985.
  25. Vassalle, M. On the mechanisms underlying cardiac standstill: Factors determining success or failure of escape pacemakers in the heart. *J. Am. Coll. Cardiol.* 5: 35B-42B, 1985.
  26. Vassalle, M. and P. Carbonin. Electrophysiological basis of cardiac arrhythmias. In: *New Trends in Arrhythmias.* 1: 5-26, 1985.
  27. Carbonin, P. and M. Vassalle. Cardiac arrhythmias in man: An overview of pathogenetic concepts. In: *New Trends in Arrhythmias.* 1: 27-40, 1985.
  28. Vassalle, M. Electrophysiological and ionic bases of overdrive excitation. In: *New Trends in Arrhythmias.* 1: 197-200, 1986.
  29. Abete, P. and M. Vassalle. Intracellular sodium activity, strophanthidin inotropy and arrhythmias under conditions that vary cellular sodium. In: *New Trends in Arrhythmias.* 2: 101-103, 1986.

30. Vassalle, M. Cardiac glycosides: regulation of force and rhythm. In: Cardiac Muscle. Regulation of Excitation and Contraction. Ed. R.D. Nathan, Academic Press, New York, 1986, pp. 237-267.
31. Vassalle, M. The relationship between rate and electrical activity in the heart: arrhythmogenic and antiarrhythmic effects. In: Cardiovascular Pharmacology, 87. Results, Concepts and Perspectives. Ed. J. Papp, Gy. Akademiai Kiado, Budapest, 1987.
32. Vassalle, M. Contribution of the Na<sup>+</sup>/K<sup>+</sup>-pump to the membrane potential. *Experientia* 43: 1135-1140, 1987.
33. Vassalle, M. I movimenti ionici in corso di cardiomiopatia ischemica. Atti 2° Simposio Internazionale di Cardiogeriatría, Napoli, 1987, pp. 11-18.
34. Vassalle, M., H. Apfel, and G. Iacono. Acetylcholine-induced overdrive excitation and its mechanism. Proc. Eighth International Congress: "The New Frontiers of Arrhythmias". 4: 87-92, 1988.
35. Vassalle, M. I meccanismi delle tachiaritmie nell'anziano. *La Riforma Medica* 103: 87-96, 1988.
36. Vassalle, M. Autonomic regulation of the heart at rest and during exercise. *Sports Cardiology* 2: 1-16, 1989.
37. Vassalle, M. Aspetti elettrofisiologici della terapia digitalica. Atti 3rd International Symposium Geriatric Cardiology, *Giornale Italiano di Gerontologia*. 1990.
38. Vassalle, M. Overdrive excitation in the sinus node. *New Trends in Arrhythmias*. 6: 507-512, 1990
39. Vassalle, M. Overdrive suppression and overdrive excitation. In *Cardiac Electrophysiology: A textbook*. Eds. M.R. Rosen, M.J. Janse and A.L. Wit. Futura Publishing Co., Inc., Mount Kisco, NY 1990. Section 2.2 pp. 1-15.
40. Vassalle, M. Arritmias de origen ectopico: bases fisiopatologicas para su tratamiento. *Archivos Instituto Cardiologia Mexico*. 61: 455-463, 1991.
41. Vassalle, M. Ruolo dei cationi nella cardiopatia ischemica. Atti Congr. Intern. Cardiogeratria. 93-106, 1992
42. Vassalle, M. The ionic mechanism underlying the pacemaker potential in cardiac Purkinje fibers. *New Trends in Arrhythmias*. 9: 683-688, 1993.
43. Vassalle, M. and F. Valenzuela. Role of the negative slope of the inward K<sup>+</sup> rectifier in the

- early afterdepolarization. *New Trends in Arrhythmias*. 9: 715-720, 1993.
44. Vassalle, M. The pacemaker current ( $I_f$ ) does not play an important role in regulating SA node pacemaker activity. *Cardiovasc. Res.* 30: 309-310, 1995. (Cardiovascular Controversies).
  45. Vassalle, M. The block of potassium channels by cesium and the pacemaker current in cardiac Purkinje fibers. In: *Potassium Channels in Normal and Pathological Conditions*. Eds. J. Vereecke, PP. van Bogaert and F. Verdonck, Leuven University Press, 1995, pp. 420-423.
  46. Vassalle, M. Dual pacemaker mechanisms in the sino-atrial node. *New Trends in Arrhythmias*, 1-4: 130-134, 1995.
  47. Vassalle, M. The role of  $K^+$  in the pacemaker current in cardiac Purkinje fibers. *New Trends in Arrhythmias*, 1-4: 145-149, 1995.
  48. Vassalle, M. Mechanisms underlying the sino-atrial resistance to high  $[K^+]_o$ . *G. Ital. Cardiol.* 28, Suppl 1: 159-164, 1998.
  49. Vassalle M., Yu H. and I.S. Cohen. Pacemaker channels and cardiac automaticity. In: Zipes DP and Jalife J, eds, *Cardiac Electrophysiology. From Cell to Bedside*. Philadelphia: WB Saunders Company, 94-103, 1999.
  50. Vassalle, M. Rapporti tra elettrofisiologia e cardioprotezione. *Cardiologia* 44: 521-534, 1999.
  51. Vassalle, M. and D.E. Berg. Mechanisms underlying the initiation of normal and abnormal automaticity in Purkinje fibers. *G. It. Cardiol.* 29 (Suppl. 5): 75-79, 1999.
  52. Vassalle, M. Sino-atrial node pacemaker currents and their control. *G. It. Aritmol. Cardiol.* 5 (Suppl. 1):17- 22, 2002.
  53. Vassalle, M. Mechanisms underlying cardiac pacemaker activity. *J. Med. Sci.* 23: 249-264, 2003.
  54. Vassalle, M. Obligatory role of voltage oscillations in cardiac pacemaker discharge. *Ital. Heart J.* 5 (S 1): 5-56, 2004.
  55. Vassalle, M. and C.-I Lin. Calcium overload and cardiac function. *J. Biomed. Sci.* 11:542-565, 2004.
  56. Vassalle M. The vicissitudes of the pacemaker current  $I_{Kdd}$  of cardiac Purkinje fibers. *J. Biomed. Sci.*, 14.6: 699-716, 2007. On line 2007, DOI 10.1007/s11373-007-9182-2 -

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### **MISCELLANEOUS**

1. Vassalle, M. Eulogy of C. McC. Brooks in "Chandler McCuskey Brooks: The Scientist and The Man", edited by M. Vassalle. State University of New York, Health Science Center at Brooklyn, 1990, pp 49-51.
2. Vassalle, M. The problems of the heart: views of an electrophysiologist. An address delivered at the bestowal of a Laurea ad Honorem in the occasion of the 600<sup>th</sup> Anniversary of the University of Ferrara, Italy. Published in M. Vassalle, "Emozioni Perdute/Lost Emotions" pp. 237-245, 1994.
3. Vassalle, M. Cesium and the pacemaker current: a reply. J. Cardiovasc. Electrophysiol. 6: 1153-1155, 1995 (reply to a Letter to the Editor).
4. Vassalle, M. Letter about the Physiology Curriculum for Medical Students in the "News from Senior Physiologists". Physiologist. 42:102, 1999.
5. Vassalle M. Matters of the Heart: an Electrophysiological View. (Highlights of the Gem Lecture). Alumni Today, Spring 1999, pp. 29-31.
6. Vassalle M. Relation among space, time and movement. Published in M. Vassalle, "La Realtà dell'Io: Aforismi/The Reality of the Self: Aphorisms", pp. 239-246, 2000.
7. Vassalle M. Art. Published in M. Vassalle, "La Realtà dell'Io: Aforismi/The Reality of the Self: Aphorisms", pp. 270-292, 2000.
8. Vassalle, M., Reality, the Mind and Poetry, published in M. Vassalle, "Non Sempre/Not Always", pp. 371-389, 2004.
9. Koizumi K. and M. Vassalle. Chandler McCuskey Brooks. A Biographical Memoir. National Academy of Sciences, pages 1-21,2008

### **ORIGINAL PAPERS**

1. Baschieri, L., P. Lotti and M. Vassalle. Rilievi sull'azione ipotensiva della reserpina. Il Progresso Medico 11: 260-269, 1955.
2. Lotti, P. and M. Vassalle. Una non comune registrazione fonografica in un caso di pneumotorace spontaneo. Rass. Fisiop. Clin. Terap. 27: 750-754, 1955.

3. Bascheri, L., P. Lotti and M. Vassalle. Effetti dell'inalazione di ossigeno su l'emodinamica generale. *Rass. Fisiop. Clin. Terap.* 28: 425-442, 1956.
4. Lotti, P., M. Vassalle and P. Di Leo. Effetti della inalazione di ossigeno sul balistocardiogramma patologico. *Rass. Fisiop. Clin. Terap.* 28: 917-929, 1956.
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(114 of the above papers have two authors)

## ABSTRACTS

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