

Dario DiFrancesco

Curriculum vitae

Personal

Born: February 10, 1948 in Milano, Italy

Citizenship: Italian

Marital status: married, three sons.

Work address: University of Milano, Department of Biosciences, The Pacelab, via Celoria 26, 20133 Milano, Italy

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Web page: <http://pacelab.it>

Google Scholar: <http://scholar.google.it/citations?user=BjMvgjYAAAAJ>

Wikipedia: https://en.wikipedia.org/wiki/Dario_DiFrancesco

Education

University of Milano: Doctoral Degree, 1973 (Summa Cum Laude, Physiology/ Biophysics)

The Physiological Laboratory, Cambridge, UK: Postdoc (Cardiac Electrophysiology)

University Laboratory of Physiology, Oxford, UK: Postdoc (Cardiac Electrophysiology)

Research positions and Academic appointments

9/73- 12/74: Teaching and Research Fellow, Institute of General Physiology, Univ. Milano.

1/75- 12/80: Research Assistant, as above

9/76- 3/77: Postdoctoral fellow in Cambridge, The Physiological Laboratory (R.D. Keynes)

4/77- 12/78: Postdoc in Cardiac Electrophysiology in Oxford, The Lab. of Physiology (D. Noble).

1/81- 6/86: Assistant Professor, Dept. of General Physiology and Biochemistry, Univ. Milano.

6/86- 10/2018: Professor of Physiology, Dept. of General Physiology and Biochemistry, then Dept. of Biosciences, Univ. Milano

10/99-present: lecturer of Physiology at Vita-Salute Univ., San Raffaele Hospital, Milano

11/2018-present: Emeritus Professor, University of Milano

Primary areas of research interest

-Electrophysiology of cardiac tissue and cells

-Ionic currents and rhythmic activity in the heart

-The pacemaker "funny" (I_f) current and control of heart rate

-HCN channels in heart and neurons

-HCN channelopathies and cardiac arrhythmias

-Pharmacology of ion channel block by drugs

-Cardiac stem cells

Honors and awards

1. -Recipient Accademia dei Lincei- Royal Society award 9/1976- 8/1977 (Cambridge- Oxford)
2. -Recipient Wellcome Trust award Research Grants 9/1977- 7/1979 (Oxford)
3. -Recipient Wallace O. Fenn Memorial Fund award for XXVIII IUPS Congress 1980 (Budapest)
4. -Recipient Wallace O. Fenn Memorial Fund award for XXIX IUPS Congress 1983 (Sidney)
5. -Member of the "Accademia Europaea" since 1992
6. -International Prize of Physiology "Professeur Pierre Rijlant" Academic Foundation, awarded by the Royal Academy of Medicine of Belgium, 1994
7. -Lectio Magistralis Annual Congress Italian Soc. of Physiology, 1994
8. -League of European Research Universities mention for L.E.R.U. Research Breakthroughs

- 2006 as representative of best research in the University of Milano
9. - Grand Prix scientifique 2008, Fondation Lefoulon-Delalande- Institut de France, pour les "très remarquables travaux de recherche qui ont conduit à la découverte des canaux ioniques impliqués dans la régulation du rythme cardiaque" [http://le foulon-delalande.institut-de-france.fr/historique-0#9 le grand prix scientifique 2008](http://le foulon-delalande.institut-de-france.fr/historique-0#9_le_grand_prix_scientifique_2008)
 10. -Lectio Magistralis Faculty of Science Univ. Milan 2008
 11. -Lectio Magistralis and Prize "Control of cardiac rate by "funny" channels in health and disease" Symp. "Translation in Cardiomyopathies: from genes to therapy" Padova 2009
 12. -H.C. Burger Award Lecture "The history of the discovery of funny channels" 23rd Cong. Europ. Soc. Noninvasive Preventive Cardiol. "Cardiovascular Medicine in the Era of Advanced Technology", Brescia 2009
 13. -Member of the "Istituto Lombardo- Accademia di Scienze e Lettere" since 2013
 14. -Lectio Magistralis Annual Congress Italian Soc. of Physiology, 2013
 15. -2014 Magnes Lecture Prize, Israel Society of Physiology and Pharmacology, Jerusalem January 2015
 16. -2015 Emeritus Membership of the American Physiological Society
 17. -2015 Royal Society Philosophical Transactions 350th anniversary, paper selected among the 33 most important papers since 1665: DiFrancesco & Noble (1985) Phil Trans Roy Soc Lond B 353-398; selection includes Newton, Maxwell, Joule, Faraday, Turing, Medawar, Marr etc See <https://royalsociety.org/journals/publishing-activities/publishing350/history-philosophical-transactions/>
<https://royalsocietypublishing.org/toc/rstb/370/1666>
<https://doi.org/10.1098/rstb.2014.0316>
<https://royalsociety.org/blog/2015/04/a-conversation-with-dario-difrancesco-and-denis-noble/>
 18. -2017 Carmeliet-Coraboeuf-Weidmann Prize Lecture at 41st EWGCCE Congress, Vienna
 19. -2017 Fellow Membership Physiological Society UK
 20. -2019 Emeritus Professor, University of Milano
 21. -2021 Nominated International Union of Physiological Sciences (IUPS) Academy Fellow
 22. -Consulted annually by the Nobel Prize in Physiology or Medicine Committee since 1997

Extra-mural grants (selected)

- CNR International Research Grant (Milano- Oxford) 1982/86, 1987-89, 1990-93
- CNR Research Grant 1989-90
- MDA Basic Research Grant 1985/87
- NIH Research Grant 1987/1989
- CNR Special Project 1991-1992 Italian Coordinator
- UE Human Capital and Mobility grant 1995 through 1997
- Telethon Grant (1998/2001)
- NATO exchange grant 1998-1999 (Columbia University)
- Servier International 1999-2000; 2002-2003; 2005-2006, 2007-2009, 2013-2016
- MIUR FISR CNR Special Projects Functional Genomics 2003-2005
- FIRB Neurobiology 2003-2007
- FIRB Post- genomics 2004-2007
- FIRB New biological therapies for myocardial infarction 2005-2010
- CARIPO Biological pacemaker 2005-2007; ACROSS-cArdiac paCemakeR ageing: cellular and molecular basis 2015-2018 (PI); 2015-2018 Partner in two more CARIPO grants.
- UE "Normacor" 2006-2009
- MURST Cofin-PRIN (1997 through to 2016) including: Cofin 1999; Cofin 2000; Cofin 2001; Cofin 2002; Cofin 2003; PRIN 2004- 2006. 2008- 2010
- Le Ren Tang Pharmaceutical 2014-2016 and 2015-2017
- Leducq Foundation Transatlantic Network of Excellence Grant TNE19CVD03: "Fighting Against Sinus Node Dysfunction And Associated Arrhythmias" (FANTASY)

Scientific Societies

Società Italiana di Fisiologia, 1973-present

Soc. Italiana di Biofisica, 1984-1989

ABCD, 1987-2000

The Physiological Society (UK) 1983-present

American Physiological Society (USA) from 1985, Emeritus Membership from 2015

Biophysical Society (USA), 1999-2012

Society for Neuroscience (USA), 2011-2012

Editorial and Committee Experience, Consultancies

-Ad hoc reviewer for all major international journals.

-Editorial Boards:

Journal of Cardiovascular Electrophysiology, 1992-2000

News In Physiological Sciences (NIPS), 1995-2002

Journal of Cardiovascular Pharmacology, 1996-2000

British Journal of Pharmacology, 2003-2007

Frontiers in Cardiac Electrophysiology, 2011-

-National Group Coordinator of Special Committee Grant Project on "Ionic Channels: functions and control mechanisms" 1991-93

-Commissaire de thèse de troisième cycle: Docteur Guy Champigny, Université de Poitiers, 6/1987

-Commissaire de thèse de troisième cycle: Docteur Patrick Bois, Université de Poitiers 12/1989

-Commissaire de thèse de troisième cycle: Docteur Jerome Petit-Jacques, Université de Poitiers 1/1993

-Consultant, N.I.H. Program Project Grant: Ira S. Cohen, State University of New York, Stony Brook, N.Y., 1988-92

-Grant reviewer NATO research project 1/1989

-Consultant, N.I.H. Program Project Grant: Michael Rosen, Columbia Univ., New York, 1993-98 and further renewals until today

-Grant reviewer NATO research project 1/1994

-Commissaire de thèse de troisième cycle: Docteur Jocelin Bescond, Université de Poitiers 12/1996

-Grant reviewer Human Frontiers 12/1996

-Commissaire de thèse de troisième cycle: Docteur Barbara Renaudon, Université de Poitiers 12/1997

-Grant reviewer NATO research project 9/1997

-Expert européen évaluation Unité INSERM U 446 (Rodolphe Fishmeister) Université de Paris Sud, Châtenay-Malabry, 9/1999

-Grant reviewer Human Frontiers 1/2003

-Grant reviewer for Italian Ministry of University and Research and other national and international granting bodies

-Commissaire de thèse de Doctorat Marie Curie: Docteur Angelo Torrente, Université de Montpellier 07/2011

-Grant reviewer for Fondation de Recherche Médicale 7/2011

-Examiner D. Phil. thesis Dr Michael A. Colman, Univ. Manchester 12/2012

-Member Selection Committee for Associate Professor competition Univ. Lleida, Catalonia, Spain 14-16/02/2018

-Member Assessment Committee PhD Thesis Cristina Altrocchi, Maastricht University, 06/2021

Summary of early training and research experience

-9/73 – 7/76 Teaching and research Fellow, then Research Assistant, Ist Fisiol Gen, Un. Milano.

-7/76 - 3/79: PostDoc at The Physiological Laboratory, Cambridge, U.K. and then at the Laboratory of Physiology, Oxford, U.K. (Dr Denis Noble)

-3/79 - 12/80: Wellcome Trust Fellowship at Oxford Un. Lab. of Physiology.

Brief periods spent in various Univ. laboratories of Physiology (Homburg/Saar, Paris XI, Tours).
-3/79 - 12/80: Research Assistant, Ist. di Fisiologia e Biochimica Generali, Un. Milano.
-1/81 - 6/86: Assistant Professor, Dept. of General Physiology and Biochemistry, Univ. Milano.
-6/86 - 10/2018: Full Professor, Dipartimento di Fisiologia e Biochimica Generali, then Dipartimento di Bioscienze, Univ. Milano.
-6/86 - 8/86, 6/88 - 8/88, 6/90 - 8/90: Visiting Professor, SUNY at Stony Brook, NY
-1990-1996 Periodical visiting scientist and consultant, Dept. Pharmacol. Columbia Univ., N.Y.

Bibliometrics

-Over 200 full articles/reviews/book chapters; > 350 publications listed by Google Scholar;
H-index: 79 citations: 22898 (Google Scholar 12/2022).

The Google Scholar profile is public: <http://scholar.google.it/citations?user=BjMvgjYAAAAJ>
ORCID 0000-0002-7322-1790

Invited presentations/congresses/named lectures etca: ~ 230 invitations worldwide

Press

Selected press articles, interviews, citations, video interviews and other material available on the web page <http://pacelab.it>

Research mentoring records

In the course of almost 4 decades, D. DiFrancesco's lab has mentored and hosted a large number of students, postdocs, visitors many of whom have made a career in Physiology and have become established academics/researchers in worldwide locations. Here is a selected list:

- Damir Janigro, Dept. Neurosurgery/NB20, Cleveland Clinic; 9500 Euclid Av., Cleveland, Ohio 44195 (up to 2014);
- Antonio Malgaroli, Vita-Salute University, San Raffaele Hospital, Milano;
- Sergio Visentin, Istituto Superiore di Sanità, Dept. Cell Biology and Neuroscience, Rome;
- Michele Mazzanti, Dept. Biosciences, Univ. Milano, via Celoria 26, 20133 Milano;
- Richard B. Robinson, Dept. Pharmacology Columbia Univ., New York;
- Patrick Bois, IPBC, UMR 6187, CNRS, Université de Poitiers, Poitiers, France;
- Eric Accili, Dept of Cellular and Physiological Sciences, Un. British Columbia, Vancouver, British Columbia, Canada;
- Antonio Zaza, Dept Biotechnology & Biosciences, Univ. Milano-Bicocca;
- Sonia Gasparini, Louisiana State University School of Medicine, Neuroscience Center of Excellence, 2020 Gravier Street, New Orleans;
- Matteo Mangoni, Institute of Functional Genomics, Cardioprotection team-LabEx ICST, Dept Physiology, CNRS UMR 5203, Inserm U661, Univ Montpellier 1 and 2, Montpellier, France
- Gianmaria Maccaferri, Northwestern Univ. Feinberg Sch. Medicine, NU Inst Neurosci., Chicago;
- Mirko Baruscotti, Dept. Biosciences, Univ. Milano, via Celoria 26, 20133 Milano;
- Raimondo D'Ambrosio, Department of Neurological Surgery and Regional Epilepsy Center, Univ. of Washington, Seattle
- Carlo Fiore Viscomi, MRC-Mitochondrial Biology Unit, University of Cambridge, UK; now Dept. Biomedical Sciences, Univ. of Padova
- Anna Moroni, Dept. Biosciences and IBF-CNR, Univ. Milano, via Celoria 26, 20133 Milano;
- Claudia Altomare, Cellular and Molecular Cardiology Laboratory, Cardiocentro Ticino Foundation and Swiss Institute for Regenerative Medicine
- Andrea Barbuti, Dept. Biosciences, Univ. Milano, via Celoria 26, 20133 Milano;
- Jocelyn Bescond, Signalisation et Transports Ioniques Membranaires, Univ. Poitiers, France
- Annalisa Bucchi, Dept. Biosciences, Univ. Milano, via Celoria 26, 20133 Milano.

Invited presentations, named lectures etca

1977	Dec	-London UCL Phys. Soc. meeting (abstract DiFrancesco McNaughton) -Leuven, speaker 1st meeting EWGCCE
1978	May May May July	-Bonn, seminar (O. Hauswirth) -Oxford, seminar (K depletion) -London UCL Phys. Soc. meeting (abstract DiFrancesco Ohba) -Cambridge Phys. Soc. meeting (abstract DiFrancesco Eisner Lederer)
1979	Feb Feb Nov	-Paris XI Orsay (E. Coraboeuf) -Oxford, Lunch Club Seminar (work in Homburg/Saar, IK current) -Homburg/Saar Leuven, speaker 3rd meeting EWGCCE
1980	March April June July Oct Oct Oct	-London UCL Phys. Soc. meeting (abstracts DiFrancesco + DiFrancesco & Noble) -Paris XI Orsay seminar (Edouard Coraboeuf) -Oxford Phys. Soc. meeting (abstract Brown DiFrancesco Kimura Noble: V clamp SAN) -Budapest, Inv. Lecturer XXVIII IUPS Congress -Cambridge Phys. Soc. meeting (abstracts DiFrancesco + DiFrancesco & Noble) -Berne, speaker 4th meeting EWGCCE -Amsterdam, invited speaker Symposium: Cardiac Rate and Rhythm
1981	March March April April July Oct	-London UCL Phys. Soc. meeting (317: abstract Brown DiFrancesco Kimura Noble: Cs on SAN If) -Lyon seminar (Oger Rougier, Carlos Ojeda) -Berne Phys. Soc. meeting (abstract DiFrancesco Hart Noble Shimoni: Ito and If) -Abano Terme, Fidia Res. Lab. (A. Gorio) -Oxford Phys. Soc. meeting (320: abstract DiFrancesco: Cs; DiFrancesco Noble: model) -Maastricht (5th EWGCCE cong: abstract DiF. Block activation If)
1982	Feb March	-Firenze (A. Mugelli) -Ferrara (E. Wanke)
1983	Jan June Sept	-Geneve, Centre Med. Univ. (D. Bertrand, C. Bader) -Abano Terme, Fidia Res. Lab. (M. Prosdocimi) -Sidney, Invited Lecturer XXIX IUPS Congress
1984	March July Sept Sept Sept Sept Sept	-Clermont-Ferrand (Merck-Sharp & Dhome-Chibret) -Tours (D. Garnier) -Oklahoma City, Inv. Lecturer Symp. Int. Soc Heart Research (R. Lazzara) -Atlanta (L. DeFelice) -Baltimore (J. Lederer, T. Lakatta) -Stony Brook (I. Cohen) -New York, Columbia University (M. Rosen)
1985	Jan March Sept	-Napoli (T. De Leo) -Torino (E. Meda) -Pisa, Inv. Speaker SIF
1986	Aug Aug Oct	-Banff, Speaker Sat. Symposium IUPS Congress -New York, Columbia Univ -Vienna, Inv. Lecturer Symp. Boehringer Ingelheim
1987	May May June June Oct	-Rotterdam, Lecturer Symp. Pure Bradycardic Agents -Milano, CNR -Padova, (S. Luciani) -Poitiers, Committee Board Thesis Guy Champigny -San Diego, Inv. Lecturer Congress APS
1988	Apr	-Okazaki, Chairman Symp. US-Japan seminar

	Apr	-Tokio, Inv. Lecturer International Symposium Basic Mechanisms of Arrhythmias (H. Irisawa)
	Oct	-Padova, Inv. Lecturer Congress SIB
	Oct	-Spoleto, Inv. Lecturer Congress ABCD
	Oct	-Pasadena, (H. Lester)
	Dic	-London, Inv. Co-chairman, British Heart Foundation
1989	March	-Pavia, Conference Dottorato Fisiologia (Prof. Rindi)
	May	-Ann Arbor, Inv. Speaker Int. Soc. Heart Research
	Sept	-Homburg/Saar, Chairman Symp to honor W. Trautwein
	Oct	-Roma, Inv. Speaker Soc. Ital. Cardiologia
	Dec	-Poitiers, Committee Board thesis Patrick Bois
1990	Feb	-Frankfurt, Inv. Speaker Symp. A.Thomae
	May	-New York, Columbia Univ.
	May	-Chicago, Inv. Speaker Symp. Ion channels heart and vasc. system (H. Fozzard)
	May	-Houston (A.M. Brown)
	July	-Farmington (A. Pappano)
	Aug	-New London, Inv. Speaker Gordon Conference Ionic Channels (H. Lester)
	Sept	-Firenze, Inv. Lecturer III Congr. Cell Biol.
	Sept	-Perugia, Inv. Speaker Congress SIF
	Sept	-Firenze, Inv. Speaker XVII Int. Congr. Electrocardiology
	Oct	-Islamorada, Florida, Inv. Speaker Hoffman Symp. (M. Rosen)
1991	April	-Il Ciocco, Inv. Speaker NATO Workshop (M. Morad)
	May	-Roma, Un. Tor Vergata (S. Morante)
	July	-Prague, Inv. Speaker Regional Meeting IUPS (C. Hartzell)
	July	-Oxford, Inv. Speaker Symp. Cardiac Background Currents (D. Noble)
	Oct	-Erice, Inv. Lecturer Int. School Bioelectrochemistry
	Dec	-Milano, Inv. Lecturer Scuola Soc. It. Neuroscienze
1992	Feb	-Pisa, (L. Maffei)
	March	-Seattle, WA (B. Hille, W. Crill)
	April	-San Diego, CA (K. Chien)
	May	-Padova, (S. Schiaffino)
	July	-Madrid, Inv. Speaker X Int. Congr. Cell Biology
	Sept	-Ferrara, Inv. Speaker meeting EWGCE
	Sept	-Naples, Inv. Speaker Nat. Congr. Pharmacology
	Oct	-Antwerpen (PP. van Bogaert)
	Nov	-Bologna (C. Rapisarda)
	Dec	-Vienna Inv. Lecturer Symposium Boehringer Ingelheim
1993	Jan	-Poitiers, Committee Board Thesis Jerome Petit-Jacques
	Aug	-Glasgow, Inv. Speaker XXXII IUPS Congress
	Aug	-Keystone, Colorado, Inv. Lecturer Symp. Cardiac Electrophysiology (Medtronic)
	Sept	-Milano, Inv. Speaker ABCD Congress
	Oct	-Poitiers, Inv. Lecturer "E. Coraboeuf Jubilee"
1994	March	-Firenze, Lettura Magistrale Annuale Soc. Ital. Fisiologia
	June	-Montpellier (Sanofi Recherche)
	July	-Trento (R. Antolini)
	Sept	-Milano, DiBit (Neurobiology Course Open Univ.)
	Sept	-Palermo, Invited Speaker Congress SIBPA
1995	April	-Versailles, Inv. Speaker Workshop on Bradycardic Agents and Cardiac Arrhythmias (Servier)
	June	-Trieste, SISSA (E. Cherubini)
	Sept	-Leuven, Symposium to honor E. Carmeliet
	Oct	-Bruxelles, Lecture for Prof. Pierre Rijlant Prize at Royal Academy of Medicine

	Oct Dec	-London, King's Coll, Symposium on Cyclic-nucleotide gated channels -New York, Columbia Un. (R. Robinson)
1996	June Nov	-Banff, Inv. Speaker Symp. in honour of Denis Noble -Banff, Inv. Speaker Conference AV node
1997	Jan June July	-Nice-Sophia Antipolis (M. Lazdunski) -Erice, Symposium Synaptic Communication (E. Cherubini) -St. Petersburg, Inv. speaker Symposium Cell Oscillators (A. Noma)
1998	Oct	-Jülich (B. Kaupp)
1999	March April Sept Sept Sept Sept	-Miami, 2 nd Workshop Cardiac rate inhibitors. (Servier) -Rome, Ph.D. school seminar (A. Trentalance) -Orsay, Inv. speaker E. Coraboeuf Symposium (R. Fishmeister) -Oxford, Session Chairman XXIII meeting EWGCCE (Denis Noble) -Hyeres, Inv. speaker Colloque Canaux Ioniques (S. Richard) -Rome, Inv. speaker Hodgkin Symposium
2000	Jan Oct	-Milano Dept. Pharmacology (A. Panerai) -Parma, Inv. speaker SIBPA Congress
2001	Feb July Sept. Nov	-New York, Columbia Un. (R. Robinson) -Paris, Inv. speaker 3 rd Workshop Cardiac rate inhibitors. (Servier) -Ancona, Inv. speaker Congresso SIF -Goettingen (D.W. Richter, E.Neher)
2002	July Sept Sept Sept	-Courbevois Paris seminar (Servier) -Berlin, Inv. speaker Eur. Soc. Cardiol. Congress 2002 -Leeds, Inv. speaker Physiol. Soc. meeting - Montpellier, Inv. chair EWGCCE 2002 meeting
2003	March March May June Aug Sept Dec Dec	-Courbevois Paris seminar (Servier) -Les Arcs, Inv. speaker European Winter Conference on Brain Research -Milano, Organizer Symposium to honor A. Ferroni -Strasbourg, Inv. speaker Heart Failure Congress ISHR 2003 -Vienna, Inv. speaker Eur. Soc. Cardiol. Congress 2003 -Erice, Inv. speaker 2nd L. & H. Fairberg Workshop Cardiac Engineering -Milano, Ph.D. School in Physics seminar (PF Bortignon) -Milano, Accademia dei Lincei (F. Clementi)
2004	Jan Aug Sept Nov Dec	-Milano, Newron seminar -Sidney, Inv. speaker XVIII World Congress Intern. Soc. Heart Research -Montpellier, Inv. speaker Cardiac Cell. Electrophysiol: From funny currents to the current Physiome, Celebration for Denis Noble retirement -Napoli, Inv. speaker VI Convegno Nazionale INBB -Roma, Inv. speaker 65 ^o Congresso Naz. Soc. Italiana Cardiologia
2005	Feb Apr June Sept Dec	-Milano, Newron Pharmaceutical (R.G. Fariello) -Roma, Istituto Dermopatico Immacolata (M. Capogrossi) -New York, Dept. Pharmacol. Columbia Univ. (R.B. Robinson) (no seminar) -Milano, CC Monzino (M. Pesce) -Neully sur Seine, Procoralan Meeting (Servier)
2006	Apr Apr June	-S. Francisco, Inv. speaker Exp. Biology meeting FASEB (S.Siegelbaum) -Athens, Inv. speaker Cardiology Update 2006 Evangelismos General Hospital -Milano, H San Raffaele (A. Malgaroli)
2007	Feb June Sept Sept Oct	-Darmstadt (G. Thiel) -Bologna, Inv. speaker XIX World Congress Intern. Soc. Heart Research -Manchester, Inv. speaker Cardiac Electrophysiol. meeting (M. Boyett) -Antalya, Inv. speaker 5 th Fairberg workshop (S. Sideman) -Lugano, Inv. speaker Cardiocentro Ticino Cong Cardiac Frequency (T.Mocchetti)
2008	Jan	-Vellore, India, Inv. speaker 6 th Winter Symp. Cardio. Sciences

	Feb	-Geneve, Hôpitaux Universitaires de Genève -Servier (B. Wagner)
	May	-Athens, Inv. speaker XXVIII Europ. Section Meeting ISHR
	June	-Paris, formal ceremony in the Coupole, Institut de France, to receive the Grand Prix Scientifique award from the Fondation Lefoulon-Delalande
	June	-Milano, Keynote Lecture Giornate del Gruppo Biologico
	June	-Sassari seminar Dip. Scienze Biomediche (L. Deiana)
	July	-New London, NH Inv. speaker Gordon Res. Conference Colby-Sawyer Cardiac Regulatory Mechanisms (D. Eisner, J. Lederer)
	Oct	-Imola XV Cong. Soc. Ital. Ric. Cardiovasc. (G. Losano)
	Oct	-Milano Inv. speaker Circolo della Stampa, Premio Galeno 2008 (R. Paoletti)
	Oct	-Roma Inv. speaker Giornate Ricerca Servier (B. Millet)
	Oct	-Venice Inv. speaker Multiple Risk Factors in CVD Venezia Lido (R. Paoletti)
	Nov	-St Louis, MO CBAC Seminar (Y. Rudy)
	Nov	-New Orleans Inv. speaker CES Annual Meeting
	Dec	-Milano, Lectio Magistralis Faculty of Science Univ. Milan
2009	Feb	-Paris Croissy, seminar Servier (L. Alliot)
	Feb	-Il Ciocco, chair session GRC Cardiac Arrhythmia Mechanisms (N. Trayanova)
	March	-Milano, Lecture Istituto Lombardo Accademia Scienze e Lettere
	April	-Padova, Lectio Magistralis and Prize Symp. "Translation in Cardiomyopathies: from genes to therapy" (G. Thiene)
	May	-Boston Inv. speaker Heart Rhythm 2009 Cong. (D. Packer)
	May	-Brescia, H.C. Burger Award Lecture "The history of the discovery of funny channels" 23rd Cong. Europ. Soc. Noninvasive Preventive Cardiol. "Cardiovascular Medicine in the Era of Advanced Technology" (C. Rusconi)
	May	-Paris Suresnes, seminar/talks Servier (J.-P. Vilaine)
	June	-Berlin, Inv. speaker Europace 2009 Cong. (J. Brugada)
	June	-Lousanne, Inv. lecturer Colloques Formation Continue, CHUV (Andres Jaussi, Servier Barbara Fritsche)
	June	-Kyoto, Inv. speaker 36° IUPS Cong. "Pacemaker mechanisms" (D. Eisner, D. Noble); organizer & speaker Luncheon Seminar (Servier) "Targeting funny channels for clinical applications"
	Aug	-Ovodda, Sardinia, Lecturer meeting "Studio comparativo della longevità di quattro comuni della Sardegna (Ovodda, Tiana, Erula e Perfugas) primi risultati demografici e genetici" (L. Deiana)
2010	Apr	-Levico Terme, Inv. speaker Congress SICOA -Le aritmie nel III millennio
	June	-Nice, Inv. speaker Cardioslim 2010, 10th World Congr. Cardiac Arrhythmias
2011	Feb	-Milano Ist Besta (S. Franceschetti)
	Oct	-Venice, Inv. speaker 2011 Venice Arrhythmias Congress (Raviele, Natale)
	Nov	-Porto, Inv. speaker Reunião Anual Núcleo de Técnicos de Cardiologia da SPC (Medtronic)
	Nov	-Roma, Inv. speaker Advances in Cardiac Electrophysiology (Calò)
	Dec	-Roma, Inv. speaker Soc Ital Cardiol
2012	May	-Milano, Lecture Istituto Lombardo Accademia Scienze e Lettere
	May	-Boston, Inv. speaker Heart Rhythm 33rd Annual Sci Sessions
	June	-Paris Suresnes, Servier seminar (J.-P. Vilaine)
	Sept	-Manchester, Inv. speaker Phys. Soc. Cardiac & Resp. Themed Meeting Cardiac Arrhythmias (H. Zhang)
2013	March	-Pavia, Inv. Lecturer PhD School Collegio Borromeo (V. Ricci)
	May	-Montpellier, Inv. Lecturer Colloque du Patch-Club
	July	-Paris Suresnes, Servier seminar (J.-P. Vilaine, C. Thollon)
	July	-Birmingham, Inv. speaker XXXVII IUPS 2013 Congress (M. Boyett, H. Dobryznski)

	Sept Dec	-Ancona, Lectio Magistralis 64th Annual Congress Italian Soc. Physiology (SIF) -Benevento, Univ. del Sannio (F. Goglia)
2014	Feb May Sept Oct Oct Oct Nov	-Milano, Ist. Besta (M. DeCurtis) -San Francisco, Inv. Speaker Heart Rhythm 2014 Congress -Maastricht, Inv. Lecturer 39th meeting EWGCCE -Tianjin, China, The second Hospital of Tianjin Medical University, seminar (Prof. Li Guangpin) -Tianjin, China, Tianjin Medical University, seminar (Prof. Tian) -Tianjin, China, Le Ren Tang drug company, Tianjin Zhongxin Pharmaceutical Group Co., Ltd., seminar -Milano, Inv. Lecturer School Medicine Univ. Milano-Polo San Paolo (L. Imeri)
2015	Feb Feb March March May June July Oct Nov	-Magnes Prize seminar Be'er Sheva, Israel (Bernard Attali, Israel) -2014 Magnes Prize Lecture award, Israel Society for Physiology and Pharmacology, Hadassah Ein Kerem, Jerusalem, Israel (Alexander Binshtok) -The 350th Anniversary of the Royal Society of London- Celebration of DiFrancesco & Noble (1985) paper -Milano, Dept of Pharmacology Seminar (A. Panerai) -Milano, Dept Biosciences Lectio Magistralis "How funny to peek into the history of science" in occasion of Royal Society celebration -Milano, Inv. speaker EHRA Europace Cardiostim 2015 congress -Tianjin, China, invited lecturer Bioeconomy 2015 Congress, Tianjin Univ. Traditional Chinese Medicine -Milano, seminar International Medical School Univ. Milano (G. Cerri) -Rome, Inv. lecturer PLACE 2015 Congress (R. Cappato, L. Calò)
2016	Jan Apr	-Pavia, Collegio Ghislieri Conference -Parma, Dip. Bioscienze Università di Parma (Emilio Macchi)
2017	March June June Sept Nov Dec	-Genova, Italian Institute of Technology seminar (F. Benfenati) -Malta, inv. speaker Mediterranean Neuroscience Society 6th Conference 2017 -Vienna, Carmeliet-Coraboeuf-Weidmann Prize Lecturer 41st EWGCCE Meeting -Pécs, Hungary, IV Europ Sect Meeting International Academy of Cardiovascular Sciences (András Varró) -Rome, Inv. lecturer PLACE 2017 Congress (L. Calò) -Cesena (Alma Mater Studiorum Bologna), seminar School of Engineering and Architecture (S. Severi)
2018	May June Nov	-Copenhagen Ion Channel Symposium Danish Royal Academy (N. Schmitt) -Padova Inv. lecturer Dott. Ricerca Med. Specialistica "G.B.Morgagni" (G. Thiene) -Freiburg Inv. lecturer Inst Exp Cardio Med Universitäts-Herzzentrum (P. Kohl)
2019	May June Aug Sept Nov	-Bari Inv. lecturer SIF 23 rd School of Physiology to honor M. Svelto (G. Calamita) -Milano, Celebration Symposium "A funny journey on the waves of the heart" -Paris, Chair ESC 2019 Congress symposium "What makes your heart beat" -Bologna, Federation European Physiological Societies-SIF Congress Chair Symposium Cardio. Physiol. Genetic and epigenetic control of cardiac rhythm -Rome, PLACE Congress 2019 Chair Symposium on iPS cells
2020	Feb	-Milano, seminar IBF-CNR
2021	March	-Manchester (virtual) TARM Webinar, Division Cardio.Sci. Univ. Manchester "The road to pacing". https://zoom.us/rec/share/MBvdTV4LerMvYKwxFdXPK9Jx8OqAoEVO8S_fzVlhj3EuX2vidKmmYDFIkV5-7Cu.0leG_Oe3CE6yopLm
2022	Feb	- Münster 3 rd Chembion Symposium (online) Westfälische Wilhelms-University, Lecture 'Funny current/HCN channels in health and disease: a 40-year journey' https://www.uni-muenster.de/ChemBion/Events/chembionseminar/index.html --

Apr	Maastricht -Cardiovascular Grand Rounds Maastricht (CGRM) Lecture: “Current Contentions in Cardiac Pacemaking” CARIM- Cardiovascular Research Institute Maastricht- School for Cardiovascular Diseases, Maastricht Univ. (Paul Volders)
June	-Bari Inv. Lecturer 56 th Meeting European Society for Clinical Investigation (ESCI) (Giuseppe Calamita) “Funny channel block by ivabradine: molecular views of cardiac therapies”
Nov	.Columbus, Ohio, meeting Leducq FANTASY network
Dec	-Paris Univ. Paris-Saclay Inv. speaker A long journey in cardiovascular research: Old friends, new ideas- Tribute to Rodolphe Fischmeister