

PERSONAL INFORMATION

Carlo Di Mario



Department of Experimental & Clinical Medicine, Room 154, Pavillon 13, Careggi University Hospital, Largo Brambilla 3 50134 Florence

Nationality Italian

Enterprise	University	EPR
<input checked="" type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input checked="" type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- 2016-22 **Full Professor of Cardiovascular Diseases & Director SODc Structural Interventional Cardiology, University of Florence**
Director Cardiology Fellowship (Scuola di Specializzazione in Malattie Cardiovascolari) University of Firenze (75 trainees in the 4-year program)
- 2019-22
2003-16 Consultant Cardiologist and Professor of Clinical Cardiology Royal Brompton Hospital & Imperial College London
- 1996-2002 Research Director Clinica Columbus e Ospedale San Raffaele, Milan, Italy
- 1990-1995 Staff Member e Junior Lecturer Dijkzigt Ziekenhuis e Erasmus Universiteit, Rotterdam, the Netherlands

EDUCATION AND TRAINING

- 1993 PhD Erasmus University, Rotterdam, Netherlands discussing a thesis on "Intracoronary Imaging & Doppler"
- 1984 Specialist in Cardiology, Univ. of Padua Medical School 70/70 cum laude
- 1980 Graduated in Medicine, Univ. of Padua Medical School 110/110 cum laude

PERSONAL SKILLS

- Mother tongue(s) Italian
- Other language(s) English, C2; Dutch B2
- Digital skills Good knowledge Microsoft Office

PERSONAL STATEMENT

- Scientific Approach
Coherence CV & study
Digital skills

As member of the partnership, Prof. Di Mario brings a large experience in setting up and conducting trials in coronary artery disease with special interest in the determinants of atherosclerosis progression. Most of his experience is focused on invasive techniques of intracoronary imaging able to reveal volume and composition of coronary plaques. In some of his most recent studies, plaque changes over time were correlated with risk factors, biomarkers and pharmacological treatment. Prof. Di Mario has pioneered research around one of the key topic of the CAD research section of the BOSPHORHUS project ie cause and natural history of coronary atherosclerosis in the absence of conventional risk factors. Prof. Di Mario leads a large Division of Cardiology in a hospital that pioneered interventional urgent treatment of acute coronary syndromes, able to screen large numbers of potential candidates.

WORK ACTIVITIES

- Awards**
- 1989: Winner of a one year research grant of the European Society of Cardiology
 - 1990: Representative of the European Society of Cardiology for the DICOM 77 Standards
 - 1992: Member Task Force ESC Sudden death Guidelines
 - 2002-2006: Member of the Board of Trustees of the Society for Cardiac Angiography and Interventions (SCAI) – United States
 - 2003-2004: Member of the Program Committee of the American College of Cardiology Annual Congress
 - 2003 and 2005: Career prize of the Polish and Serbian Societies of Interventional cardiology
 - 2005: Fellow of the Royal College of Physicians (FRCP)
 - 2007: Founding Member of the EuroCTO Club
 - 2007: Leading author of the Curriculum for Training in Interventional Cardiology of the Working Group of Interventional Cardiology
 - 2008-2012: Member of the Program Committee of the European Society of Cardiology Annual Congress for Coronary Artery Disease/ Peripheral Disease/Cardiovascular Surgery, responsible for the final summary in the plenary session at the end of the congress
 - 2009-11: President of the European Association of Percutaneous cardiovascular Interventions (EAPCI)
 - 2010: Member Task Force ESC-EACTS for the Myocardial Revascularization Guidelines
 - 2010-14: Director Transcatheter registry of the European Society of Cardiology
 - 2009: Member Executive Committee EAPCI/ESC Stent for Life Initiative
 - 2012: Member Task Force STEMI Guidelines of the European Society of Cardiology
 - 2013: Member Task Force on Chronic Stable Angina Guidelines of the European Society of Cardiology
 - 2013-15: Councillor of the European Society of Cardiology
 - 2013-15: Member of the Interventional Committee of the American College of Cardiology
 - 2010: Senior Investigator (2010) National Institute of Health Research
 - 2011-16: Bronze National NHS Award
 - 2009: Honorary Cardiology Professor, Beograd University
 - 2015: "Cittadinanza Onoraria" Comune Palazzo San Gervasio (Potenza)
 - 2018: Prize "Eccellenze Lucane Fiorentine"
 - 2021: Platinum Award from Patients in the TopDoctors Teleconsultation Program
 - 2020: President of the EuroCTO Club (till 2023)
 - 2021: "Ambassador" of the City of Florence (awarded by the Mayor of Florence in a dedicated ceremony in the City Hall)
 - 2022: President of the Tuscanian Section of the Societa' Italiana di Cardiologia (S.I.C.)

Editorial Activities

Associate Editor: EuroIntervention (Associate Editor since 2012, now Section editor for State-of-the-Art reviews); European Journal of Cardiovascular Imaging (since 2008); Internal and Emergency Medicine (Associate Editor since 2016)
Heart (1995-2010); International Journal of Cardiology (Associate Editor: 2004-2020)

Member editorial Board: European Heart Journal (from 2013)

Catheterization & Cardiovascular Interventions (from 1997)
Journal of Cardiovascular Medicine (formerly Italian Heart Journal)
Journal of the American College of Cardiology (from 2014)
Journal of the American College of Cardiology Interventions (from 2016)
Cardiovascular Revascularization Medicine (from 2018)
Cardiology (from 2019)
Romanian Journal of Cardiology (from 2021)
Circulation Interventions (from 2021)
Cardiology (from 2019)

Invited Presentations

1991-22: invited Speaker or Director-Codirector of multiple National and International congresses with more than 1000 invited lectures including the ESC, AHA, ACC congresses, TransCatheter Therapeutics, Cardiac Revascularization Therapy (CRT), EuroPCR, SOLACI, and National congresses of Cardiology in Germany, United Kingdom, Sweden, Netherlands, France, Spain, Denmark, Belgium, Switzerland, Spain, South Africa, Italy, Poland, Serbia, Brazil, Argentina, Saudi Arabia, Emirates, Qatar, Yemen, Oman, Kuwait, India, Pakistan, Japan, Hong-Kong, Singapore, Australia, Gulf States, Lebanon, Croatia, Serbia, Romania, Hungary, Egypt, Portugal, Mexico, Canada, Russian Federation, Ukraine

2017-22: Teacher Master in Structural interventional cardiology and of the Master Coronary Percutaneous Interventions, University Sant'Anna, Pisa; Teacher Master in Clinical Competence in Heart Failure (ANMCO and Università di Firenze)

2017-22: Director Master in Clinical Competence in Cardiology Intensive care, Università di Firenze (28 participants 2021)

Grants

1990 Scholarship on pathological correlates of IVUS images: Eur Soc Cardiol; 23,000 Euro
1992 Projects on networking for intravascular imaging: EU, 300,000 Euro
1993-7 DEBATE trial (coPI): Cardiometrics, 2,700,000 Euro
1997-2000 DESTINI trial (PI): Volcano, 3,500,000 Euro
2001-06 CARESS Study (PI): Eli Lilly Europe: 2.5 Million Euro
1998-9 RECOVERS (coPI): JOMED, 600,000 Euro
1999-2000 HELP-AMI (PI): CORDIS Italy, 150,000 Euro
2001-2002 MICROSCOPE (coPI): CORDIS Italy, 80,000 Euro
2003-08 CARDia Trial (Local PI): British Cardiac interventional Society, 8000 GBP
2004-06 Reality Study (Local PI): Cordis, 38,000 GBP
2005-06 Jupiter II Study (local PI): Sorin, 8,804 GBP
2004-07 Eurostar 2 Study (local PI): Conor Medsystems, 23,150 GBP
2005-08 Late strut coverage OCT (PhD student P. Barlis): Boston/Biosensors, 164,000 GBP
2005-06 Acuity Study (Local PI): The Medicines Co, 8,000 GBP
2004-09 Progress Study (local PI): Biotronik, 43,000 GBP
2004-07 Zomaxx I Trial (local PI): Abbot Vascular, 38,000 GBP
2007-2-12 Leaders Study (local PI + substudy PI): Biosensors Europe, 148,554 GBP

2006 Neopterin/OCT ACS Study (PhD Student G. Ferrante):
EAPCI/Rome Univ., 45,000 Euro
2004 Ostial PES Study (PI): R. Brompton Har Trust, 23,125 GBP
2005 TOP Study (local PI): TriReme Medical Inc. 22,140 GBP
2009-current Resolute III Trial: Medtronic Vascular, 163,420 GBP
2006 West London Large Animal Laboratory (Co-Applicant): British Heart Foundation, 2,5 Million GBP
2011-2013 DISSOLVE II Study (Local PI): MICELL, 63,234 GBP
2010-2013 EXCEL (Local PI): Abbott Vascular, 86,456 GBP
2012-2014 Cell crossing OCT Study (Local PI): R. Brompton Har Trust, 23,125 GBP
2011-2014 Cardiovasc. BRU Grant renewal 2011 (Co-Applicant): Nat Inst Health Res., 3,5 million GBP
2011-2016 NIHR Senior Investigator (Awardee 2011-16): Nat Inst Health Research, 75,000 GBP
2014-16: FLAIR trial: Imperial College, 32000 GBP
2015-16: DISRUPT study: Shockwave, 53,000 GBP
2014-16: UK ABSORB Registry: ABBOTT Vascular, 56000 GBP
2014-15: ILLUMIEN Study of OCT for guidance of stenting: St-Jude, 64000 GBP
2014-ongoing: UK TAVI: Nat Inst Health Research, 23000 GBP
2017-2019: TAVI Quality of Life (TASQ Score validation): Edwards, 15,000 Euro
2017-19: DISRUPT 2 (Worldwide PI): Shockwave, 25,000 Euro
2018-20: HUYGENS (Local PI): AMGEN, 22,000 Euro
2018-19: OBSERVANT 2 (Local PI): Istituto Superiore di Sanità, Rome
2018-20: ENVISAGE-TAVI (Local PI): Daiichi Sankyo, 23,000 Euro
2020-ongoing: SANTORINI (Local PI): Daiichi Sankyo, 28,000 Euro
2020: ARCANGELO (Local PI): Chiesi, 18,000
2021: CHAMPION AF (Local PI), Boston Scientific, enrolling
2021: Edwards Benchmark (Local PI), Edwards, top enroller Italy, 4th worldwide, >70,000 Euro expected
2021: The GISE Shockcalcium Registry (Global PI): Shockwave medical, 1,9 million Euro (enrolling)
2022: Rheia TAVI in Women (Local Co-PI): Edwards, enrolling
2022: IMPROVE: European PI: Philips Volcano, Starting
2022: DEFINE-GPS: Local PI: Philips Volcano, Enrolling
2022: SOS-MI: Local PI: Idorsia, Enrolling

Patents None

ADDITIONAL INFORMATION

Publications

Total number of publications in peer-review journals: 890
H index (Scopus 15 January 2023) 118
10 selected very recent publications

1. Araki M,, Park SJ, Dauerman HL, Uemura S, Kim JS, **Di Mario C**, ..., Jang IJ: Optical coherence tomography in coronary atherosclerosis assessment

- and intervention. *Nature Cardiology Reviews* 2022 doi.org/10.1038/ s41569-022-00687-9
2. Ybarra LF, Rinfret S, Brilakis ES, Karpaliotis D, Azzalini L, Grantham JA, Kandzari DE, Mashayekhi K, Spratt JC, Wijeyesundera HC, Ali ZA, Buller CE, Carlino M, Cohen DJ, Cutlip DE, De Martini T, **Di Mario C**, Farb A, Finn AV, Galassi AR, Gibson CM, Hanratty C, Hill JM, Jaffer FA, Krucoff MW, Lombardi WL, Maehara A, Magee PFA, Mehran R, Moses JW, Nicholson WJ, Onuma Y, Sianos G, Sumitsuji S, Tsuchikane E, Virmani R, Walsh SJ, Werner GS, Yamane M, Stone GW, Rinfret S, Stone GW; Chronic Total Occlusion Academic Research Consortium. Definitions and Clinical Trial Design Principles for Coronary Artery Chronic Total Occlusion Therapies: CTO-ARC Consensus Recommendations. *Circulation*. 2021 Feb 2;143(5):479-500. doi: 10.1161
 3. Torguson R, Mintz GS, Zhang C, Case BC, **Di Mario C**, Garcia-Garcia HM, Waksman R. Lipid-rich plaque density and low-density lipoprotein cholesterol in statin-treated versus statin-naive patients: a post hoc analysis of the LRP study. *EuroIntervention*. 2022 Jan 17;EIJ-D-21-00701. doi: 10.4244/EIJ-D-21-00701. Online ahead of print. PMID: 35037626
 4. Bambagioni G, **Di Mario C**, Torguson R, Demola P, Ali Z, Singh V, Skinner W, Artis A, Cate TT, Zhang C, Garcia-Garcia HM, Doros G, Mintz GS, Waksman R. Lipid-rich plaques detected by near-infrared spectroscopy predict coronary events irrespective of age: A Lipid Rich Plaque sub-study. *Atherosclerosis*. 2021 Oct;334:17-22. doi: 10.1016/j.atherosclerosis.2021.08.022. Epub 2021 Aug 14. PMID: 34455112
 5. Nardi G, De Backer O, Saia F, Søndergaard L, Ristalli F, Meucci F, Stolcova M, Mattesini A, Demola P, Wang X, Al Jabri A, Palmerini T, Bruno AG, Ielasi A, Van Belle E, Berti S, **Di Mario C**. Peripheral intravascular lithotripsy of iliofemoral arteries to facilitate transfemoral TAVI: a multicentre prospective registry. *EuroIntervention*. 2021 Nov 4;EIJ-D-21-00581. doi: 10.4244/EIJ-D-21-00581. Online ahead of print. PMID: 34734559
 6. Kereiakes DJ, **Di Mario C**, Riley RF, Fajadet J, Shlofmitz RA, Saito S, Ali ZA, Klein AJ, Price MJ, Hill JM, Stone GW. Intravascular Lithotripsy for Treatment of Calcified Coronary Lesions: Patient-Level Pooled Analysis of the Disrupt CAD Studies. *JACC Cardiovasc Interv*. 2021 Jun 28;14(12):1337-1348. doi: 10.1016/j.jcin.2021.04.015. Epub 2021 May 3. PMID: 33939604
 7. Cosentino F, Grant PJ, and the ESC Scientific Document Group. 2019 ESC Guidelines on diabetes, pre-diabetes, and cardiovascular diseases developed in collaboration with the EASD. *Eur Heart J*. 2020 Jan 7;41(2):255-323.
 8. Wu EB, Brilakis ES, Mashayekhi K, Tsuchikane E, Alaswad K, Araya M, Avran A, Azzalini L, , **di Mario C**,, Zhang Q. Global Chronic Total Occlusion Crossing Algorithm: JACC State-of-the-Art Review. *J Am Coll Cardiol*. 2021 Aug 24;78(8):840-853. doi: 10.1016/j.jacc.2021.05.055.
 9. Kilic ID, Fabris E, Kedhi E, Ghilencea LN, Caiazzo G, Sherif SA, **Di Mario C**. Intra-coronary Imaging for the Evaluation of Plaque Modifications Induced by Drug Therapies for Secondary Prevention. *Curr Atheroscler Rep*. 2020 Oct 6;22(12):76. doi: 10.1007/s11883-020-00890-4. PMID: 33025069
 10. Waksman R, Di Mario C, Torguson R, Ali ZA, Singh V, Skinner WH, Artis AK, Cate TT, Powers E, Kim C, Regar E, Wong SC, Lewis S, Wykrzykowska J, Dube S, Kazzuha S, van der Ent M, Shah P, Craig PE, Zou Q, Kolm P, Brewer HB, Garcia-Garcia HM; LRP Investigators. Identification of patients and plaques vulnerable to future coronary events with near-infrared spectroscopy intravascular ultrasound imaging: a prospective, cohort study. *Lancet*. 2019 Nov 2;394(10209):1629-1637. doi: 10.1016/S0140-6736(19)31794-5. Epub 2019 Sep 27.

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