

Raffaele DE CATERINA, M.D., Ph.D., F.E.S.C.



C.V. February 1st 2022

Present Positions and Addresses:

Professor of Cardiology and Director,
Chairman of Cardiology-University of Pisa
Chief, Cardiovascular Division I-Pisa University
Hospital
Director, Postgraduate School of Cardiology,
University of Pisa

E-mail:

Italian Medical license n. XXX

Training:

Degree in Medicine (1978), Postgraduate Schools in Cardiology (1983), Pulmonary Medicine (1980), Hematology (1986), Nuclear Medicine (1989), all at the University of Pisa; Ph.D. in Cardiovascular Medicine, Scuola Superiore S. Anna, Pisa; 1981-1999: University Researcher, Scuola Superiore S. Anna, Pisa; 1983-84: Fogarty International Research Fellow at Cornell University Medical College, New York, NY; 1992-95: Lecturer on Medicine, Brigham and Women's Hospital – Harvard Medical School, Boston, MA (ongoing); 1999: Associate Professor of Cardiology and Director, University Cardiology Division and Postgraduate School in Cardiology, "G. d'Annunzio" University, Chieti; Director, Laboratory for Thrombosis and Vascular Research, CNR Institute of Clinical Physiology, Pisa, Italy. 2006: Full Professor, Chairman of Cardiology, and Director of Post-Graduate School of Cardiology, at "G. d'Annunzio" University - Chieti. Head, University Cardiology Division, Ospedale Clinicizzato SS. Annunziata – Chieti; Director, Section of Experimental Cardiology, Center of Excellence on Aging, "G. d'Annunzio" University – Director, Postgraduate School of Cardiology, G. d'Annunzio University, Chieti 2001-2018. Since September 1st 2018: Chairman of Cardiology, Pisa University Medical School; Director, University Cardiology Division, Pisa University Hospital.

Positions in professional organisations:

European Society of Cardiology (ESC): Chairman (2000-2002), Working Group Thrombosis. Chairman (2002-2004), Cluster for Cardiovascular Pathology and Biology and Science Council; Founding Member (2004-2006) and Chairman (2008-2010), Council for Basic Cardiovascular Sciences. Member of the Congress Programme Committee (2004-2008) as Coordinator for Myocardial Ischemia and Basic Cardiovascular Sciences. Member of the Committee for Practice Guidelines (2007-2008). Councillor to the Board 2007-2008. Vice-President (2008-2010), with mandate for Working Groups and Councils).

International Society on Nutrigenetics/Nutrigenomics: President 2009-2012,

Others: Founding member and Board Member (1990-1994), **International Society for the Study of Fatty Acids and Lipids (ISSFAL)**; Secretary and Scientific Coordinator (1996-2008) and Chairman (2008-2010), **Working Group on Thrombosis, Italian Society of Cardiology**. President (2008-2010), **Working Group Atherosclerosis, Thrombosis and Vascular Biology, Italian Federation of Cardiology**.

Editorial Boards:

European Heart Journal, Cardiovascular Research, Heart International, Journal of Cardiovascular Medicine, Giornale Italiano di Cardiologia. Associate Editor: Thrombosis and Haemostasis. **Editor-in-Chief** (January 2011-May 2019), Vascular Pharmacology. Associate Editor (starting April 2014) Journal of the American College of Cardiology. Executive Editor (starting June 2020): European Heart Journal

Fellowships/Honours:

Visiting Lecturer on Medicine, Brigham and Women's Hospital-Harvard Medical School, Boston, MA (ongoing); Fellow, European Society of Cardiology, Italian Association of Hospital Cardiologists (ANMCO), Italian Society of Cardiology (SIC). **Steering Committee Member** of recently completed or currently ongoing pivotal clinical trials with antithrombotic drugs in atrial fibrillation and acute coronary syndromes, including: ACTIVE, ARISTOTLE, AVERROES, APPRAISE-2, RE-DUAL PCI.

Scientific Production: Author of >850 peer-reviewed manuscripts and of >150 book chapters. Author/Editor of 12 books. Chief Editor of: *Trattato Italiano di Malattie del Cuore e dei Vasi* – Piccin 2011; and of Larizza, *Trattato Italiano di Medicina Interna*, II Edizione – Piccin 2011.

Bibliometry: (accessed January 9 2021):

Data source: Google Scholar - Search date: 2021-01-09 09:59:58 +0100 - Cache date: 2021-01-09 10:20:16 +0100 - Search result: [0] No error - Metrics - Reference date: 2021-01-09 10:20:16 +0100 - Publication years: 1981-2020 - Citation years: 40 (1981-2021) - Papers: 867 - Citations: 86097 - Citations/year: 2152.43 (acc1=410, acc2=326, acc5=196, acc10=105, acc20=53) - Citations/paper: 99.30 - Authors/paper: 3.84/4.0/4 (mean/median/mode) - Age-weighted citation rate: 9340.26 (sqrt=96.64), 2809.67/author - Hirsch h-index: 97 (a=9.15, m=2.43, 75667 cites=87.9% coverage) - Egghe g-index: 290 (g/h=2.99, 84340 cites=98.0% coverage) - PoP hl,norm: 49 - PoP hl,annual: 1.23- see <http://www.ncbi.nlm.nih.gov/pubmed/?term=De+Caterina+R>

Ten selected international publications:

1. Simoncini T, Maffei S, Basta G, Barsacchi G, Genazzani AR, Liao KL, **De Caterina R**: Estrogens and glucocorticoids inhibit endothelial vascular cell adhesion molecule-1 expression by different transcriptional mechanisms. *Circ Res* 2000; 87: 19-25.
2. **De Caterina R**, Bourcier T, Laufs U, La Fata V, Lazzarini G, Neish AS, Libby P, Liao JK: Induction of endothelial-leukocyte interaction by interferon-gamma requires coactivation of nuclear factor-kappaB. *Arterioscler Thromb Vasc Biol* 2001; 21: 227-232.
3. Manca G, Parenti G, Bellina R, Boni G, Grosso M, Bernini W, Palombo C, Paterni M, Pelosi G, Lanza M, Mazzucca N, Bianchi R, **De Caterina R**: 111Indium platelet scintigraphy for the non-invasive detection of carotid plaque thrombosis. *Stroke* 2001; 32: 719-727.
4. Basta G, Lazzarini G, Massaro M, Simoncini T, Tanganelli P, Fu C, Kislinger T, Stern DM, Schmidt AM, **De Caterina R**: Advanced glycation end products (AGEs) activate endothelium via RAGE: a mechanism for amplification of inflammatory responses. *Circulation* 2002; 105: 816-822.
5. **De Caterina R**, Zampolli A: From Asthma to Atherosclerosis - 5-Lipoxygenase, Leukotrienes, and Inflammation. *N Engl J Med* 2004; 350: 4-7.
6. Massaro M, Habib A, Lubrano L, Del Turco S, Lazzarini G, Bourcier T, Weksler BB, **De Caterina R**. The omega-3 fatty acid docosahexaenoate attenuates endothelial cyclooxygenase-2 induction through both NADP(H) oxidase and PKC epsilon inhibition. *Proc Natl Acad Sci U S A*. 2006;103:15184-9.
7. **De Caterina R**, Husted S, Wallentin L, et al. General mechanisms of coagulation and targets of anticoagulants (Section I). Position Paper of the ESC Working Group on Thrombosis--Task Force on Anticoagulants in Heart Disease. *Thromb Haemost* 2013; 109: 569-79.
8. **De Caterina R**, Husted S, Wallentin L, et al. Vitamin K antagonists in heart disease: current status and perspectives (Section III). Position paper of the ESC Working Group on Thrombosis--Task Force on Anticoagulants in Heart Disease. *Thromb Haemost* 2013; 110: 1087-107.
9. **De Caterina R**, Husted S, Wallentin L, et al. Oral anticoagulants in coronary heart disease (Section IV). Position paper of the ESC Working Group on Thrombosis - Task Force on Anticoagulants in Heart Disease. *Thromb Haemost* 2016; 115: 685-711.
10. **De Caterina R**, Ageno W, Agnelli G, et al. The Non-Vitamin K Antagonist Oral Anticoagulants in Heart Disease: Section V-Special Situations. *Thromb Haemost* 2019; 119: 14-38.

Textbooks: *Malattie del Cuore e dei Vasi* – Piccin Nuova Libreria – Padova – 2009 (in Italian)

Major research interests: Thrombosis, Atherosclerosis, Cardiovascular Pharmacology, Atrial Fibrillation, Pathogenesis of Coronary Artery Disease.

Managerial expertise: Director of a Cardiology Division at Chieti University Hospital since 1999; Leading role in Research Teams since 1981

Research Fundraising and Grant ownership: Currently grant acquisitions continuously for over 200,000 Euro/year for the past 5 years

Expertise in Clinical Trials: Steering Committee Member of 6 International Clinical Trials; PI for Italy of 6 multicenter clinical trials (CURE, ARISTOTLE, AVERROES, ENGAGE-AF...) in the area of acute coronary syndromes and atrial fibrillation. Participant as local PI in 14 multicenter clinical trials, according to GCP.

Editorial Expertise

- *Section Editor*: Thrombosis and Haemostasis (2010-2018)
- *Executive Editor*, EHJ (since 2019) - *Associate Editor*, JACC (since 2014)
- 2011-2019, *Editor-in-Chief*, *Vascular Pharmacology*, where he has promoted a rapid and steady growth of the journal visibility by writing and procuring reviews and emphasizing the translational implication of original research, until May 2019.
- *Editorial Board Member*: *Eur Heart J*, *Card Res*, *J Cardiovasc Pharmacol*, *J Cardiovasc Med*, *Eur Heart J Acute Cardiac Care*, *Cor et Vasa*, *Eur Heart J Cardiovascular Pharmacotherapy*; *Clin Res Cardiol*.

PhD Student supervision: 15 – **PhD students examined in PhD theses:** 25.

I authorize treatment of privacy data according to Italian Digs. 196/2003.

1st February 2022

Raffaele De Caterina