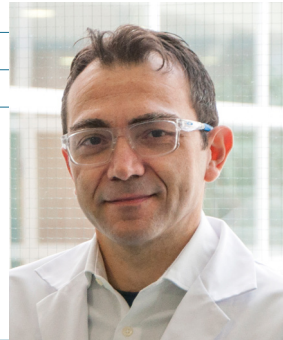


## CURRICULUM VITAE

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Prof. Marco Valgimigli, MD, PhD

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## PERSONAL DETAILS

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Date of birth March 6<sup>th</sup>, 1972  
Place of birth Forlì (Italy)  
Nationality Italian

Marital Status Defacto  
Children Riccardo, 25/02/2007  
Alessandro, 30/09/2010  
Asia, 10/10/2018

Languages Italian, English, German, French (basic), Dutch (basic)

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6977 Ruvigliana, Switzerland

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## EDUCATION / FURTHER EDUCATION

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### Education

- 1991 High School degree in foreign languages (60/60)
- 1991-1997 Faculty of Medicine, University of Bologna, Bologna, Italy

### University degrees

- 1997 Doctor in Medicine and Surgery (equivalent to M.D.), University of Bologna, Italy, Magna cum laude  
Thesis: Piscaglia F, Zironi G, Gaiani S, Mazziotti A, Cavallari A, Gramantieri L, **Valgimigli M.**, Bolondi L. Systemic and Splanchnic Hemodynamic changes after liver transplantation for cirrhosis: a long term prospective study. *Hepatology*. 30:58-64, 1999.
- 2003 Degree in Cardiological Sciences  
University of Ferrara, Ferrara, Italy, Magna cum laude
- 2006 PhD degree in Interventional Cardiology  
Erasmus Medical Center, Rotterdam, The Netherlands with a thesis entitled “High-risk percutaneous intervention in the drug eluting stent era” Promoters Professors P.W. Serruys and P. de Feyter

## PROFESSIONAL EXPERIENCE

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### Research activities

- 1997-1999 Residency in Internal and Emergency Medicine Sciences, winning a national grant  
University of Bologna, Bologna, Italy, (Prof Bolondi, Mentor)
- 2004-2005 Clinical and Research Fellowship in Interventional Cardiology, Erasmus University, Thoraxcenter, Rotterdam, The Netherlands, (Mentor, Prof P.W. Serruys)
- 2006 Centre Hospitalier Universitaire de Caen, Avenue Côte de Nacre 14033 Caen, Normandy, France, Cedex (under the assistance of Prof M. Hamon)
- 2006-2013 University Hospital of Ferrara, Cardiology Department, Ferrara, Italy
- 2013-2015 Erasmus Medical Center, Rotterdam, The Netherlands
- 2015-May 2020 Bern University Hospital, Cardiology department, Bern, Switzerland
- June 2020-Current Cardiocentro Ticino, Cardiology department, Lugano, Switzerland

### Clinical activities:

1995-1997	Student-fellow at 1 Internal Medicine Unit Departement, S. Orsola-Malpighi Hospital, University of Bologna, Bologna, Italy
1997-1997	Clerkship in Cardiology at Hospital de Santa Maria, Lisbon, Portugal
1997-1999	Post-graduate fellow at Emergency Medicine Unit, S. Orsola-Malpighi Hospital, University of Bologna, Bologna, Italy
1999-2000	Post-graduate fellow at Coronary Care Unit, S. Anna Hospital, University of Ferrara, Ferrara, Italy
2000-2002	Post-graduate fellow at Haemodynamic Unit, Spedali Civili, University of Brescia, Brescia, Italy
2002-2003	Post-graduate Resident-fellow at Haemodynamic Unit, S. Anna Hospital, University of Ferrara, Ferrara, Italy
2004-2005	Research (PhD training) and clinical fellowship in Interventional Cardiology, Erasmus University, Thoraxcenter, Rotterdam, The Netherlands
2006-2006	Training in complex PCI procedures through radial access at the Centre Hospitalier Universitaire de Caen, Avenue Côte de Nacre Caen, Normandy, France, Cedex (under the assistance of Prof M. Hamon)
2006-2009	Senior attending cardiologist at the University Hospital of Ferrara working full time in the catheterization laboratory
2009-2013	Director of the Catheterization Laboratory at the University Hospital of Ferrara, Ferrara, Italy
2013-2015	Associate Professor of Cardiology at Erasmus Medical Center and Senior Interventional Cardiologist, Thoraxcenter, Rotterdam, The Netherlands
2015-May 2020	Head of clinical research of the Cardiology department, and full-time interventional cardiologist at Inselspital, Bern University Hospital, Switzerland.
2016-May 2020	Extraordinary Professor for invasive cardiology Bern University Hospital, Bern, Switzerland.
June 2020-current	Deputy Chief of Cardiology at Cardiocentro Ticino, Lugano, Switzerland.

## Administrative and leadership experience

- 2009-2013 Director of the Catheterization Laboratory at the University Hospital of Ferrara, Ferrara, Italy  
Responsible of 6 Interventional Cardiologists and 10 Catheterisation Laboratory Nurses and 5 Technicians
- 2013-2015 Director of Clinical Research in the field of anti-thrombotics and innovative pharmacological treatment modalities at the Thoraxcentrum, Erasmus Medical Center and responsible person for the interaction between the Erasmus University and clinical research organizations (CRO), including Cardialysis for the planning, execution and oversight of all investigator-driven clinical research activities.
- 2015-May 2020 Director of Clinical Research of the Cardiology department, Inselspital, Bern University Hospital, Switzerland. Responsible for the organization, planning and execution of sponsor- and investigator-initiated clinical research in the field of cardiology and interventional cardiology. Local referent for the Cardiopath PhD program, an international PhD program led by the University of Naples, Federico II, involving the University of Bern, Switzerland and the Cardiovascular center OLV, Aalst, Belgium.
- June 2020-current Deputy Chief of Cardiology at Cardiocentro Ticino, Lugano, Switzerland and head of clinical research.

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## ACADEMIC APPOINTMENTS

- 2013-2015 Associated Professor, Erasmus Medical Center, Rotterdam, The Netherlands
- 2015-May 2020 Extraordinary Professor, Bern University Hospital, Cardiology department, Bern, Switzerland
- 2020 Professor of Medicine, Faculty of Biomedical Sciences, Università della Svizzera italiana, Lugano, Switzerland
- December 2022- Adjunct Professor, University Clinic of Cardiology, Inselspital Bern, Bern, Switzerland

## DETAILS OF OCCUPATION

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### Surgical (Interventional) Subjects

#### Operation (Intervention) Catalogue

##### **Interventions conducted as operator (2006 – end of December 2022)**

19899	Diagnostic coronary angiography
12622	Percutaneous coronary interventions
789	PFO and LAA closures
687	Transcatheter aortic valve implantation (TAVI)
29	Valvuloplasty
6687	Right heart catheterisation
39	Mitral Clip
3	Paravalvular leak closure

##### **Interventions conducted as assistant (2002 -2006)**

1079	Diagnostic coronary angiography
567	Percutaneous coronary interventions
5	PFO and LAA closures
10	Valvuloplasty
23	Percutaneous trans-spetal myocardial ablation
106	Right heart catheterisation

##### **Interventions conducted as instructor (2006 – end of December 2022)**

5867	Diagnostic coronary angiography
3455	Percutaneous coronary interventions
85	PFO and LAA closures
19	Valvuloplasty
578	Right heart catheterisation
45	TAVI
5	Mitral Clip

### Organisational responsibilities

2007-2013	Head of Invasive Cardiology, University Hospital Ferrara, Cardiology Department, Ferrara, Italy
2006-2013	Head of Research, University Hospital Ferrara, Cardiology Department, Ferrara, Italy
2013-2015	Group Leader, cardiac research on anti-thrombotic agents, University Clinic for Cardiology, Department Thorax, University Hospital Erasmus Medical Center Rotterdam, The Netherlands
2015-2020	Extraordinary Professorship for invasive cardiology and Head of Clinical Research, Bern University Hospital, Bern, Switzerland

2018	Chief and Professor of Cardiology (succession of Prof. Daniel Wagner) University Hospital Lausanne, Switzerland secondo loco (primo loco: Prof. O. Müller)
2018-current	Member of Scientific Advisory Board University Hospital Basel Department of Clinical Research
June 2020-current	Deputy Chief of Cardiology at Cardiocentro Ticino, Lugano, Switzerland and head of clinical research.

### **European Society of Cardiology (ESC)**

2006-2017	Committee Member, ESC Press Committee
2007-current	Fellow of the European Society of Cardiology (ESC)
2013-2016	Editor of the ESC Congress News
2013-2015	Committee Member, Congress Program Committee
2015-2017	Chair, Congress Program Committee
2013-2017	European Association of Percutaneous Coronary intervention (EAPCI) Board member

### **Clinical Practice Guidelines Committee from the European Society of Cardiology**

2011-2011	Reviewer ESC Guidelines for the Diagnosis and Treatment of Non-ST Segment Elevation Acute Coronary Syndromes
2011-2012	Task Force Member ESC Guidelines for the Management of ST-Segment Elevation Myocardial Infarction
2012-2014	Task Force Member ESC Guidelines on Myocardial Revascularization Task Force on Myocardial Revascularization of the European Society of Cardiology (ESC) and the European Association for Cardio-Thoracic Surgery (EACTS)
2012-2014	Reviewer Coordinator ESC Guidelines for the Diagnosis and Treatment of Stable Coronary Artery Disease
2013-2015	Task Force Member (Section Coordinator) ESC Guidelines for the Diagnosis and Treatment of Non-ST Segment Elevation Acute Coronary Syndromes
2015-2017	Chair-Task Force ESC Guidelines DAPT Focused Update on Myocardial Revascularization

	Task Force on Myocardial Revascularization of the European Society of Cardiology (ESC) and the European Association for Cardio-Thoracic Surgery (EACTS)
2015-2017	Task Force Member (Section Coordinator) ESC Guidelines for the Diagnosis and Treatment of ST Segment Elevation Myocardial Infarction
2016-2018	Reviewer ESC Scientific Document Group. Fourth universal definition of myocardial infarction (2018).
2017-2019	Task Force Member of the ESC guidelines for the diagnosis and treatment of patients with stable coronary artery disease.
2019	Task Force Member of the 2020 ESC Guidelines for the management of atrial fibrillation
2019	Reviewer 2020 ESC Guidelines for the management of patients with non-ST segment elevation myocardial infarction
2020	Chair of the Joint EAPCI, ACCA and EAPC Paper on Anti-thrombotic treatment strategies for secondary prevention in patients with established coronary atherosclerotic disease

### **European Association of Percutaneous Coronary Intervention**

2011-2016	Chair, Research Committee from the European Association of Percutaneous Coronary Intervention (EAPCI)
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### **International Courses on Percutaneous Cardiovascular Interventions**

2010-current	Committee Program Member, PCR—course on cardiovascular interventions, EuroPCR, Paris, France
2011-2016	Committee member Program, TCT—course on cardiovascular interventions, New York, USA
2016-current	Associate director TCT Program Committee—course on cardiovascular interventions, New York, USA

### **Live-Case Transmissions**

2013	Live-case Transmission for Rotterdam Course on Biovascular Scaffold
2014	Live-case Transmission for Rotterdam Course on Biovascular Scaffold
2015	Live-case Transmission for Prague Cardiovascular Course



### **Editorial Board Member**

Since 2012	Journal of the American College of Cardiology – Cardiovascular Interventions
Since 2013	EuroIntervention
Since 2010	Future Cardiology
Since 2015	Asia Pacific Intervention
Since 2018	Assistant Editor of the European Heart Journal: Acute Cardiovascular Care
Since 2018	Circulation Cardiovascular Intervention

### **Clinical Event Committee Member**

2009	Member, RESOLUTE Trial
2010	Member, NEVO 2 Trial
2011	Member, NEXT Trial
2013	Member, EXECUTIVE Trial
2015	Member, RESERVOIR I Trial
2019	Member, EURO-SHOCK Trial

### **Data Safety Monitoring Board Committee Member**

2017-current	DSMB Chair of the Revacept, a Novel Inhibitor of Platelet Adhesion in Patients with Stable Coronary Artery Disease Undergoing Elective Percutaneous Coronary Interventions: A Phase II, Multicentre, Randomised, Dose-Finding, Double-Blind and Placebo-Controlled Study
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### **Review for Peer Reviewed Journals**

#### **Cardiology**

Circulation, Journal of the American College of Cardiology (JACC), European Heart Journal, EuroIntervention, Circulation Cardiovascular Interventions, Journal of the American College of Cardiology Cardiovascular Interventions, American Heart Journal, American Journal of Cardiology, Catheterization and Cardiovascular Interventions, Journal of Invasive Cardiology, Heart, Journal of Cardiovascular, JAMA Cardiology

#### **Internal Medicine**

New England Journal of Medicine (NEJM), Lancet, Journal of the American Medical Association (JAMA), British Medical Journal, Archives of Internal Medicine, Annals of Internal Medicine.

## Teaching

2013	Contract professor of invasive cardiology for nurses at the University of Ferrara (target audience: care staff)
2013	Contract professor of invasive cardiology for radiology technicians at the University of Ferrara (target audience: care staff)
2013	Contract professor of invasive cardiology for residents in the specialization course of Cardiology at the University Hospital of Ferrara Italy (target audience: Doctors in Medicine attending the specialization course in cardiology)
2014-2015	Responsible Person of the COEUR (Cardiovascular Research School) course on anti-thrombotics devoted to PhD students of the Erasmus Medical Center institution (target audience: PhD students comprising doctors in medicine or biology)
2015-2020	Involved in the organisation and execution of the weekly journal clubs and Grand Rounds with staff members and visiting professors at Inselspital, Bern.
2020-current	Involved in the organisation and execution of the weekly journal clubs and Grand Rounds with staff members and visiting professors at Cardiocentro, Ticino, Lugano.
2021	Professor of Medicine, Faculty of Biomedical Sciences, Università della Svizzera italiana, Lugano, Switzerland.

## Scientific work

### **Financial support of the Ministry for University and Scientific and Technological research [MURST]**

Project:	Tailoring the choice of P2Y12 oral receptor blockers by integrating loss of function alleles to phenotype assessment via point of care testing versus standard of care in patients who undergo percutaneous coronary intervention: a randomized multicenter trial
Support:	Ministry for University and Scientific and Technological Research [MURST]
Nr. of partner:	10
Own function:	Principal Investigator
Period:	2012-2015
Total amount:	Euro 336'700.00

### **Financial support from REGIONE EMILIA ROMAGNA**

Project:	Single High-Dose Bolus Tirofiban and Sirolimus Eluting STent versus Abciximab and Bare Metal Stent in Acute Myocardial Infarction (STRATEGY) Study
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Support: Regione Emilia Romagna  
Nr. of partner: 1  
Own function: Principal Investigator  
Period: 2003-2006  
Total amount: Euro 250'000.00

#### **Financial support from SNSF - Swiss National Science Foundation**

Project: GLASSY: GLOBAL LEADERS Adjudication Sub-Study  
Support: SNSF  
Nr. of partner: 19 (including Bern)  
Own function: Principal Investigator  
Period: 2018  
Total amount: CHF 19'200.00 (SNF)

#### **Financial support from Swissheart Foundation (Schweizerische Herzstiftung)**

Project: Establishing Reference Values for the Diagnosis of Coronary Artery Ectasia in Current  
Support: Swiss Foundation of Cardiology  
Own function: Principal Investigator  
Period: 2019  
Total amount: CHF 80'000.00

#### **Financial support from Innosuisse – Agenzia svizzera per la promozione dell'innovazione**

Project: MOCA I Microvascular Obstruction with the CoFI™ System Assessment  
Support: Innosuisse & CorFlow  
Nr. of Partner: 4  
Own function: Principal Investigator  
Period: 2019 - 2020  
Total amount: 265'920.00

#### **Investigator Initiated Trials**

Project: MULTISTRATEGY: MULTIcentre evaluation of Single high-dose bolus TiRoFiban versus Abciximab with sirolimus eluting sTent or Bare Metal Stent in Acute Myocardial Infarction study  
Support: University of Ferrara, support from Merck  
Nr, of partner: 16  
Own function: Principal Investigator  
Period: 2004-2008  
Total amount: Euro 500'000.00

Project: 3T/2R: Tailoring Treatment With Tirofiban in Patients Showing Resistance to Aspirin and/or Resistance to Clopidogrel  
 Support: University of Ferrara, industry support from MERCK  
 Nr. of partner: 12  
 Own function: Principal Investigator  
 Period: 2005-2009  
 Total amount: Euro 700'000.00

Project: FABOLUS SYNCHRO: Facilitation through Abciximab by dropping infusion line in patients undergoing coronary stenting. Synergy with clopidogrel at high loading dose regimen.  
 Support: University of Ferrara, industry support from Eli Lilly  
 Nr. of partner: 1  
 Own function: Principal Investigator  
 Period: 2006-2008  
 Total amount: Euro 150'000.00

Project: FABOLUS PRO: Facilitation through Aggrastat By dropping or shortening Infusion Line in patients with ST-segment elevation myocardial infarction compared to or on top of PRasugrel given at loading dose  
 Support: University of Ferrara, industry support from Correvio  
 Nr. of partner: 1  
 Own function: Principal Investigator  
 Period: 2009-2011  
 Total amount: Euro 250'000.00

Project: PRODIGY: PROlonging Dual antiplatelet treatment after Grading stent-induced Intimal hyperplasia study  
 Support: University of Ferrara, industry support from Sanofi and Abbott Vascular  
 Nr. of partner: 3  
 Own function: Principal Investigator  
 Period: 2005-2008  
 Total amount: Euro 150'000.00

Project: ZEUS: Zotarolimus-eluting Endeavor sprint stent in Uncertain DES candidates  
 Support: University of Ferrara, industry support from Medtronic  
 Nr. of partner: 19  
 Own function: Principal Investigator  
 Period: 2009-2011  
 Total amount: Euro 650'000.00

Project: MATRIX: Minimizing Adverse Haemorrhagic Events by Transradial Access Site and Systemic Implementation of Angiox (MATRIX)  
 Support: Italian Society of Interventional Cardiology, industry support from The Medicines Company and Terumo  
 Nr. of partner: 79  
 Own function: Principal Investigator  
 Period: 2011-2017  
 Total amount: Euro 3'267'000.00

Project: Global LEADERS: Comparative effectiveness of 1 month of ticagrelor plus aspirin followed by ticagrelor monotherapy versus a current-day intensive dual antiplatelet therapy in all-comers patients undergoing percutaneous coronary intervention with bivalirudin and biomatrix family drug-eluting stent use.  
 Support: ECRI–European Cardiovascular Research Institute, industry support from a consortium with Biosensors, Astra Zeneca and The Medicines Company  
 Nr. of partner: 5  
 Own function: Co-Principal Investigator  
 Period: 2013-2018  
 Total amount: Euro 33'000'000.00

Project: GLASSY: GLOBAL LEADERS Adjudication Sub-Study  
 Support: Inselspital, Bern University Hospital, and ECRI–European Cardiovascular Research Institute  
 Nr. of partner: 19 (including Bern)  
 Own function: Principal Investigator  
 Period: 2017-2018  
 Total amount: CHF 650'000.00

Project: HIGH-TECH: Hunting for the off-target properties of Ticagrelor on Endothelial function and other circulating biomarkers in humans  
 Support: Erasmus Medical Center, industry support from Astra Zeneca  
 Nr. of partner: 5 (including Bern)  
 Own function: Principal Investigator  
 Period: 2015-2017  
 Total amount: Euro 443'000.00

Project: FABOLUS FASTER: Facilitation Through Aggrastat or Cangrelor Bolus and Infusion Over prasugrel: a multicenter Randomized Open-label Trial in patients With

Support: ST-elevation Myocardial infarction Referred for primary percutaneous intervention  
 Inselspital, Bern University Hospital, industry support from Medicare  
 Nr. of partner: 6 (including Bern)  
 Own function: Chair and Principal Investigator  
 Period: 2017-2019  
 Total amount: CHF 707'000.00

Project: MASTER-DAPT: Management of High Bleeding Risk Patients Post Bioresorbable Polymer Coated Stent Implantation With an Abbreviated Versus Prolonged DAPT Regimen  
 Support: ECRI, Cardialysis, Bern University Hospital, Terumo Medical Corporation  
 Nr. of partner: 100 (including Bern)  
 Own function: Chair and Principal Investigator  
 Period: 2017-2019  
 Total amount: Euro 11'500'000.00

Project: SWISS APERO: Comparison of Amplatzer Amulet vs Watchman device in patients undergoing left atrial appendage closure  
 Support: Inselspital, Bern University Hospital, industry support from Abbott Vascular  
 Nr. of partner: 4 (including Bern)  
 Own function: Chair and Principal Investigator  
 Period: 2018-2019  
 Total amount: CHF 400'000.00

Project: XIENCE 28 SHORT DAPT  
 Support: Abbott Vascular  
 Nr. of partner: 50 (including Bern)  
 Own function: Co-Principal Investigator  
 Period: 2018-2019  
 Total amount: Euro 5'000'000.00

### **Trials Initiated by Industry**

Project: EARLY ACS: Early Glycoprotein IIb/IIIa Inhibition in Non-ST-Segment Elevation Acute Coronary Syndrome  
 Support: EISAI  
 Nr. of partner: 29  
 Own function: Local Principal Investigator  
 Period: 2007-2009  
 Total amount: Euro 67'000.00

Project: Evaluation of Safety and Efficacy of Short-term A-002  
Treatment in Subjects With Acute Coronary Syndrome  
Support: Anthera Pharmaceuticals  
Nr. of partner: 362  
Own function: Local Principal Investigator  
Period: 2010-2012  
Total amount: Euro 38'000.00

Project: LANCELOT-ACS: Lessons from Antagonizing the Cellular  
Effect of Thrombin-Acute Coronary Syndrome  
Support: EISAI  
Nr. of partner: 440  
Own function: Local Principal Investigator  
Period: 2004-2008  
Total amount: Euro 40'000.00

Project: STABILITY: Stabilization of Atherosclerotic Plaque  
by Initiation of Darapladib Therapy Unterstützung:  
GlaxoSmithKline  
Nr. of partner: 663  
Own function: Local Principal Investigator  
Period: 2008-2010  
Total amount: Euro 85'000.00

Project: STREAM: Strategic Reperfusion Early after Myocardial  
Infarction  
Support: Boehringer Ingelheim  
Nr. of partner: 99  
Own function: Local Principal Investigator  
Period: 2008-2010  
Total amount: Euro 33'540.00

Project: SOLID-TIMI 52: Stabilization of Plaque Using Darap-  
ladib-Thrombolysis in Myocardial Infarction 52  
Support: GlaxoSmithKline  
Nr. of partner: 99  
Own function: Local Principal Investigator  
Period: 2008-2010  
Total amount: Euro 53'540.00

Project: EXAMINATION: Evaluation of the Xience-V stent in  
Acute Myocardial INfArcTION  
Support: Abbott Vascular  
Nr. of partner: 12

Own function: Executive Committee member und local Principal Investigator  
Period: 2009-2011  
Total amount: Euro 767'400.00

Project: TRACER: Thrombin Receptor Antagonist for Clinical Event Reduction in Acute Coronary Syndrome  
Support: Merck  
Nr. of partner: 818  
Own function: Steering Committee member und local Principal Investigator  
Period: 2009-2011  
Total amount: Euro 960'500.00

Project: FAME 2: Fractional Flow Reserve versus Angiography for Multi- vessel Evaluation 2  
Support: St. Jude  
Nr. of partner: 28  
Own function: Local Principal Investigator  
Period: 2011-2012  
Total amount: Euro 28'800.00

Project: BIOSOLVE 3: Acute performance of a drug-eluting absorbable metal scaffold (DREAMS 2G) in patients with de novo lesions in native coronary arteries  
Support: Biotroniks  
Nr. of partner: 8  
Own function: local Principal Investigator  
Period: 2015-current  
Total amount: CHF 56.000

Project: P2Y12 Open label, randomized, study to assess the onset of platelet aggregation inhibition after a single subcutaneous injection of ACT-246475 in adults with acute myocardial infarction  
Support: IDORSIA  
Nr. of partner: 6  
Own function: Principal Investigator  
Period: 2018



## 2021

### **Financial Support from Innosuisse – Agenzia svizzera per la promozione dell'innovazione**

Project: Enhanced blood flow and pressure measurements with PhysioCath-microcatheter for reliable diagnosis of Ischemia with Non-Obstructive Coronary Artery - INOCA study

Support: Innosuisse

Nr. of partner: 3

Own Function: Principal Investigator

Period: 2024-2026

Total amount: CHF 1'115'933.00

## 2022

### **Financial Support from SNSF - Swiss National Science Foundation**

Project: The role of cardiovascular magnetic resonance in non-ST-elevation-myocardial infarction - TITAN-MRI study

Support: SNSF

Nr. of partner: 4

Own Function: Partner

Period: from 2022

Total amount: CHF 356'000

### **Financial Support from Concept Medical Inc., Tampa, FL**

Project: TicIn for the Treatment of coronary lesions with Drug Eluting Balloons -TITAN-DEB study

Support: Concept Medical Inc., Tampa, FL

Nr. of partner: 9

Own Function: Principal Investigator

Period: from 2022

Total amount: CHF 806'830

## 2023

### **Financial support from Sahajanand Medical Technologies Ireland Limited, Galway Technology Park, Parkmore, Galway, H91 R9YR, Ireland**

Project: Monotherapy with a P2Y12 inhibitor followed by a direct-acting oral anticoagulant in patients with ATRial fibrillation undergoing supraflex Cruz coronary stent implantation - MATRIX-2

Support: Sahajanand Medical Technologies Ireland Limited, Galway Technology Park, Parkmore, Galway, H91 R9YR, Ireland

Nr. of partner: 120

Own Function: Co-Principal Investigator  
Period: from 2023  
Total amount: EUR 6'000'000

**Financial Support from OM Pharma Suisse SA**  
Project: Minimally INvasive cOronary arTery bypAss sUpported  
by cangRelor -MINOTAUR study  
Support: OM Pharma Suisse SA  
Nr. of partner: 1  
Own Function: Principal Investigator  
Period: from 2023  
Total amount: CHF 132'760

**Financial Support from Innosuisse – Agenzia  
svizzera per la promozione dell'innovazione**  
Project: Blood wave diagnostics of coronary microvascular diseases  
based on the PyCath pressure-velocity sensing micro-catheter  
Support: Innosuisse  
Nr. of partner: 3  
Own Function: Investigator  
Period: 2024-2025  
Total amount: CHF 866'560

#### **2024**

**Financial Support from SNSF - Swiss National Sci-  
ence Foundation**  
Project: Cerebral LEsions by mAgnetic Resonance in the MATRIX  
2 - CLEAR MATRIX 2 study  
Support: SNSF  
Own Function: Principal Investigator  
Period: from 2024  
Total amount: CHF 500'000

**Financial support from M.A. Med Alliance SA., Rue  
de Rive 5, 1260 Nyon**  
Project: TicIn for the Treatment of coronAry lesioNs – PLAque  
Regression AnD stabilIsation with Sirolimus Elution Pilot  
Study - TITAN PARADISE Pilot  
Support: M.A. Med Alliance SA., Rue de Rive 5, 1260 Nyon  
Nr. of partner: 1  
Own Function: Principal Investigator  
Period: from 2024  
Total amount: CHF 158'800

**National Coordinator and Steering Committee Member of the following Trials:**

TRACER: Thrombin Receptor Antagonist for Clinical Event Reduction in Acute Coronary Syndrome

Sponsor: Merck

ODISSEY OUTCOMES: A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Effect of Alirocumab (SAR236553/REGN727) on the Occurrence of Cardiovascular Events in Patients Who Have Recently Experienced an Acute Coronary Syndrome

Sponsor: Sanofi

AUGUSTUS: An Open-label, 2 x 2 Factorial, Randomized Controlled, Clinical Trial to Evaluate the Safety of Apixaban vs. Vitamin K Antagonist and Aspirin vs. Aspirin Placebo in Patients With Atrial Fibrillation and Acute Coronary Syndrome or Percutaneous Coronary Intervention

Sponsor: Bristol-Myers Squibb

EXCEL: Evaluation of XIENCE versus Coronary Artery Bypass Surgery for Effectiveness of Left Main Revascularization **(EXCEL) trial**

Sponsor: Abbott Vascular

REGULATE-PCI: Effect of the REG1 anticoagulation system versus bivalirudin on outcomes after percutaneous coronary intervention (REGULATE-PCI): a randomised clinical trial.

Sponsor: Regado Biosciences, Inc.

ENTRUST: Evaluation of the Safety and Efficacy of an Edoxaban-based Antithrombotic Regimen in Patients with Atrial Fibrillation Following Successful Percutaneous Coronary Intervention **(PCI) with Stent Placement**

Sponsor: Daiichi Sankyo

**Executive Committee Member of the following Trials:**

ENTRUST-AF-PCI: Evaluation of the Safety and Efficacy of an Edoxaban-based Compared to a Vitamin K Antagonist-based Antithrombotic Regimen in Subjects With Atrial Fibrillation Following Successful Percutaneous Coronary Intervention (PCI) With Stent Placement.

Sponsor Daiichi Sankyo, Inc.

ENVISAGE-TAVI-AF: Edoxaban Versus Standard of Care and Their Effects on Clinical Outcomes in Patients Having Undergone Transcatheter Aortic Valve Implantation (TAVI) - in Atrial Fibrillation

Sponsor Daiichi Sankyo, Inc.

GALILEO: Global Multicenter, Open-label, Randomized, Event-driven, Active-controlled Study Comparing a rivAroxaban-based Antithrombotic Strategy to an antiPlatelet-based Strategy After Transcatheter aortic valve Replacement (TAVR) to Optimize Clinical Outcomes

Sponsor Bayer

## Promotion of junior researchers

### PhD/Cardiology students

Patrizia Malagutti

Valgimigli M, Ceconi C, **Malagutti P**, Merli E, Soukhomovskaia O, Francolini G, Cicchitelli G, Olivares A, Parrinello G, Percoco G, Guardigli G, Mele D, Pirani R, Ferrari R. Tumor necrosis factor-alpha receptor 1 is a major predictor of mortality and new-onset heart failure in patients with acute myocardial infarction: the Cytokine-Activation and Long-Term Prognosis in Myocardial Infarction (C-ALPHA) study. *Circulation*. 111(7):863-870, 2005.

Elisa Merli

Valgimigli M, **Merli E**, Malagutti P, Soukhomovskaia O, Cicchitelli G, Antelli A, Canistro D, Francolini G, Macri G, Mastroianni F, Paolini M, Ferrari R. Hydroxyl radical generation, levels of tumor necrosis factor-alpha, and progression to heart failure after acute myocardial infarction. *J Am Coll Cardiol*. 43(11):2000-2008, 2004.

Olga Soukhomovskaia

Valgimigli M, Rigolin GM, Fucili A, Porta MD, **Soukhomovskaia O**, Malagutti P, Bugli AM, Bragotti LZ, Francolini G, Mauro E, Castoldi G, Ferrari R. CD34+ and endothelial progenitor cells in patients with various degrees of congestive heart failure. *Circulation*. 110(10):1209-1212, 2004.

Elisa Cangiano

**Cangiano E**, Cavazza C, Campo G, Valgimigli M, Francolini G, Malagutti P, Pratola C, Ferrari R. Different clinical models of CD34 + cells mobilization in patients with cardiovascular disease. *J Thromb Thrombolysis*. 32(1):1-8, 2011.

Gianluca Campo

**Campo G**, Valgimigli M, Frangione A, Luccarelli S, Cangiano E, Cavazza C, Fileti L, Ferrari R; 3T/2R Investigators. Evaluation of platelet inhibition by tirofiban in patients stratified according to aspirin and clopidogrel responsiveness: the 3T/2R (Tailoring treatment with tirofiban in patients showing resistance to aspirin and/or resistance to clopidogrel). *J Am Coll Cardiol*. 55(3):255-256, 2010.

Carlo Penzo

Valgimigli M, Campo G, **Penzo C**, Tebaldi M, Biscaglia S, Ferrari R; RADAR Investigators. Transradial coronary catheterization and intervention across the whole spectrum of Allen test results. *J Am Coll Cardiol*. 63(18):1833-1841, 2014.

### **Mentor of medical students:**

Sarina Leupp Master Thesis (planned discussion: tba)

Sven Lifka Master Thesis (planned discussion: tba)

### **Mentor of PhD students:**

Giuseppe Gargiulo (topic of interest: pharmacologic and mechanical strategies to balance ischemic and bleeding complications during and after percutaneous cardiovascular interventions; PhD thesis discussion: January 2019)

Roberto Galea (topic of interest: predittori di complessita' procedural e di efficacia e sicurezza a breve e lungo termine in pazienti sottoposti a chiusura percutanea dell'auricola sinistra: analisi retrospettiva di un centro ad alto volume; PhD thesis discussion August 2018)

Francesco Costa (topic of interest:pharmaco-mechanical strategies to optimize the balance between ischemia and bleeding after percutaneous coronary intervention; PhD thesis discussion: April 2018)

Marianna Adamo (topic of interest: effect of different formulations of tirofiban on thrombocytopenia and clinical outcomes in patients with acute coronary syndrome; PhD thesis discussion: tbd)

Fortunato Iacovelli (topic of interest: angiographic analysis and outcomes of patients undergoing percutaneous coronary interventions; PhD thesis discussion: May 2019)

Marco Angellillis (topic of interest: percutaneous closure of left atrial appendage in patients at high ischemic and bleeding risk; PhD thesis discussion: tbd)

Antonio Landi: (topic of interest: coronary artery disease; percutaneous coronary intervention; revascularization; antithrombotic therapy; antiplatelet therapy)

### **Mentor for EAPCI fellowship recipients**

2014-2015 Dr Francesco Costa, Messina, Italy

2015-2016 Dr. Giuseppe Gargiulo, Naples, Italy

2018-2018 Dr. Andreas Mitsis, Patra Achaias, Greece

### **External Reviewer/Committee member for PhD Thesis**

- 2010 Dr. Emanuele Meliga  
Erasmus University Medical Center  
Rotterdam, The Netherlands
- 2015 Dr. Lorenz Räber  
Erasmus University Medical Center  
Rotterdam, The Netherlands
- 2015 Dr. Michael Magro  
Erasmus University Medical Center  
Rotterdam, The Netherlands
- 2017 Dr. Christian Puelacher  
Perioperative Myocardial Injury in Non-cardiac Surgery -  
Incidence, Patient Characteristics, Outcome, and Possible  
Strategies to Improve Outcome  
University of Basel, Switzerland
- 2018 Dr. Francesco Costa  
Pharmaco-mechanical strategies to optimize the balance  
between ischemia and bleeding after percutaneous coro-  
nary intervention  
Erasmus Medical Center  
Rotterdam, The Netherlands
- 2019 Dr. Rohit Mansingh  
Coronary vulnerability  
Erasmus Medical Center  
Rotterdam, The Netherlands

### **Habilitation**

- 2019 Dr. med. Nasser Dhayat  
Nephrology and Hypertension and Clinical Pharmacology  
University of Bern  
Bern, Switzerland
- 2018 Dr Rebecca Hasler MD MSc  
Orthopedic Surgery / Traumatology  
University of Bern  
Bern, Switzerland
- 2018 Dr. Jean-Sébastien Rougier PhD  
Molekulare Medizin  
University of Bern  
Bern, Switzerland

## RESEARCH METHODOLOGY

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### Clinical

Multicentric	Planing, organisation and conduction of several randomized controlled studies to investigate the safety and efficacy of percutaneous implanted prostheses (coronary stents, prostheses for congenital defects, heart valves).
Cohort studies	Cohort studies with large patient numbers to establish the long term safety from stent thrombosis.
Meta-Analysis	Co-investigator of different meta-analysis regarding safety.

## VARIOUS

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### Awards

Winner of the “**Best Scientific contribution Award**” with a research project entitled: “Apoptotic activity of serum is increased in patients with pancoronary syndrome” October 2002, Verona, Italy, on behalf of GISE (Gruppo Italiano Studi di Emodinamica)

Winner of the “**Scholarship from Italian Society of Cardiology**” with a scientific contribution entitled: “Pathophysiological and clinical implications of bone marrow stem cells spontaneous mobilisation in Acute Coronary Syndromes and Heart Failure” Rome 2003, Italy, SIC (Italian Society of Cardiology)

Finalist **TCT Young Investigator Award**, October 2005, Washington

### Memberships

Italian Society of Cardiology (SIC)

Associazione Nazionale Medici Cardiologi Ospedalieri (AMNCO)

BIG Registry (Dutch National Society of Medical Doctors)

Fellow of the European Society of Cardiology (FESC)

Italian society of Interventional Cardiology (GISE)

Schweizerische Gesellschaft für Kardiologie/Société Suisse de Cardiologie/  
Società Svizzera di Cardiologia

## PUBLICATIONS

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ORCID ID: <https://orcid.org/0000-0002-4353-7110>

### H-index

Publication range 1997-Present

Number of documents: 798

Number of citations: 40182 total citations by 27007 documents

**H-INDEX: 112**

Source Scopus (accessed on 11.10.2024)

### Highly Cited researcher in the field of Clinical Medicine – 2023

Among the 1% most cited researchers in 2023 (Source ISI Web)



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### Highly Cited researcher in the field of Clinical Medicine – 2022

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**Highly Cited researcher in the field of Clinical Medicine – 2021**  
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 Among the 1% most cited researchers in 2020 (Source ISI Web)

**Highly Cited researcher in the field of Clinical Medicine – 2019**  
 Among the 1% most cited researchers in 2019 (Source ISI Web)

**Highly Cited researcher in the field of Clinical Medicine – 2018**  
 Among the 1% most cited researchers in 2018 (Source ISI Web)

**Highly Cited researcher in the field of Clinical Medicine – 2017**  
 Among the 1% most cited researchers in 2017 (Source ISI Web)



## List of Publications

### Original articles

1. Piscaglia F, Zironi G, Gaiani S, Mazziotti A, Cavallari A, Gramantieri L, **Valgimigli M.**, Bolondi L. Systemic and Splanchnic Hemodynamic changes after liver transplantation for cirrhosis: a long term prospective study. *Hepatology* 1999;30:58-64.
2. Gramantieri L, Chieco P, Di Tommaso M, Masi L, Piscaglia F, Brillanti S, **Valgimigli M.**, Mazziotti A., Bolondi L. Aberrant FHIT transcripts in primary hepatocellular carcinoma and liver cirrhosis. *Clin Cancer Res* 1999;5:3468-75.
3. Piscaglia F, Siringo S, Hermida RC, Legnani C, **Valgimigli M.**, Donati G, Palareti G, Gramantieri L, Gaiani S, Burroughs AK, Bolondi L. Diurnal changes of fibrynolysis in patients with liver cirrhosis and sophage al varices. *Hepatology* 2000;31:349-57.
4. Valgimigli L, **Valgimigli M.**, Gaiani S, Peduli GF, Bolondi L. Measurement of oxidative stress in human liver by EPR spin-probe technique. *Free Radic Res* 2000;33:167-78.
5. Piscaglia F, **Valgimigli M.**, Rapezzi C, Ferlito M, Gaiani S, Siringo S, Gramantieri L, Bolondi L. Left ventricular volumes in liver cirrhosis. *Dig Liver Dis* 2000;32:392-7.
6. Battelli MG, Musiani S, **Valgimigli M.**, Gramantieri L, Tommassoni F, Bolondi L, Stirpe F. Serum Xanthine Oxidoreductase in Human Liver Disease *Am J Gastroenterol* 2001;96:1194-9.
7. **Valgimigli M.**, Valgimigli L, Trerè D, Gaiani S, Pedulli GF, Gramantieri L, Bolondi L. Oxidative stress EPR-measurement in human liver by radical-probe technique. Correlation with etiology, histology, and cell proliferation. *Free Radic Res*,2002;36:939-948.
8. **Valgimigli M.**, Merli E, Mastroianni F, Soukhomovskaia O, Malagutti P, Macrì G. Quale Futuro per il Trattamento dello scompenso cardiaco? *La Cardiologia nella pratica clinica* 2002;9:224-236.
9. **Valgimigli M.**, Agnoletti L, Curello S, Comini L, Francolini G, Mastroianni F, Merli E, Pirani R, Guardagli G, Grigolato PG, Ferrari R. Serum from patients with acute coronary syndromes displays a proapoptotic effect on human endothelial cells. A possible link to pan-coronary syndromes. *Circulation* 2003;107:264-270.
10. **Valgimigli M.**, Merli E, Malagutti P, Soukhomoskaia O, Cicchitelli G, Antelli GA, Canistro D, Francolini G, Macrì G, Mastroianni F, Paolini M, Ferrari R. Hydroxyl radical generation, levels of tumor necrosis factor-alpha and progression to heart failure after acute myocardial infarction. *J Am Coll Cardiol* 2004;43(11):2000-8.
11. **Valgimigli M.**, Percoco G, Cicchitelli G, Ferrari F, Barbieri D, Ansani L, Guardagli G, Parrinello G, Malagutti P, Soukhomoskaia O, Bettini A, Campo G, Ferrari R. High Dose Bolus Tirofiban And Sirolimus Eluting

Stents Versus Abciximab And Bare Metal Stent In Acute Myocardial Infarction (Statregy). Study Protocol Desing And Demography Of The First 100 Patients. *Cardiovasc Drugs Ther* 2004;18(3):225-30.

12. **Valgimigli M**, Percoco G, Cicchitelli G, Barbieri D, Ferrari F, Ansani L, Guardigli G, Parrinello G, Soukhomoskaia O, Ferrari R. The Additive Value Of Tirofiban Administered With High-Dose Bolus In The Prevention Of Ischemic Complications During High-Risk Coronary Angioplasty. *The Advance Trial. J Am Coll Cardiol* 2004;44 (1):14-19.
13. **Valgimigli M**, Rigolin GM, Fucili A, Della Porta M, Soukhomoskaia O, Malagutti P, Bugli AM, Zenone Bragotti L, Francolini G, Mauro E, Castoldi GL, Ferrari R. CD34+ And Endothelial Progenitor Cells In Patients With Various Degrees Of Congestive Heart Failure. *Circulation* 2004;101:1209-1212.
14. **Valgimigli M**, Ceconi C, Malagutti P, Merli E, Soukhomovskaia O, Francolini G, Cicchitelli G, Olivares A, Parrinello G, Guardigli G, Mele D, Pirani R, Percoco G, Ferrari R. for the Cytokine-Activation and long-term prognosis in Myocardial Infarction (C-ALPHA) Study Tumor necrosis factor-alpha receptor 1 is a major predictor of mortality and new-onset heart failure in patients with acute myocardial infarction: the Cytokine-Activation and Long-Term Prognosis in Myocardial Infarction (C-ALPHA) study. *Circulation* 2005;111:1209-1212.
15. **Valgimigli M**, Van Mieghem C, Ong ATL, Aoki J, Rofrieguez-Granillo GA, McFadden EP, Kappetein AP, de Feyter P, Smits PC, Regar E, van der Giessen WJ, Sianos G, de Jaegere P, van Domburg RT, Serruys PW. Short And Long Term Clinical Outcome After Drug-Eluting Stent Implantation For The Percutaneous Treatment Of The Left Main Coronary Artery Disease. Insights From The Rapamycin Eluting- And Taxus- Stent Evaluated At Rotterdam Cardiology Hospital Registries (Research And T-Search). *Circulation* 2005;111:1383-1389.
16. Ong ATL, Serruys PW, Aoki J, Hoye A, Van Mieghem MC, Rodrieguez-Granillo GA, **Valgimigli M**, Schennenschein K, Regar E, de Jaegere P, de Feyter P, McFadden EP, Sianos G, van der Giessen WJ, van Domburg RT. The Unrestricted Use Of Paclitaxel- Versus Sirolimus- Eluting Stents For Coornary Artery Disease In An Unselected Population. One Year Results Of The Taxus-Stent Evaluated At Rotterdam Cardiology Hospital (T-Search) Registry. *J Am Coll Cardiol* 2005;45:1135-1141.
17. Agostoni F, **Valgimigli M**, Van Mieghem CA, Rodrieguez-Granillo GA, Aoki J, Ong AT, Tsuchida K, McFadden EP, de Feyter P, Smits PC, Regar E, van der Giessen WJ, Sianos G, de Jaegere P, van Domburg RT, Serruys PW. Comparison Of Early Outcome Of Percutaneous Coronary Intervention For Unprotected Left Main Coronary Artery Disease In The Drug Eluting Stent Era With Versus Without Intravascular Ultrasonic Guidance. *Am J Cardiol* 2005;95(5):644-647.
18. **Valgimigli M**, Rigolin GM, Cittanti C, Malagutti P, Curello S, Percoco GF, Bugli AM, Porta MD, Bragotti LZ, Ansani L, Mauro E, Lanfranchi

- A, Giganti M, Feggi L, Castoldi GL, Ferrari R. Use Of Granulocyte Colony Stimulating Factor During Acute Myocardial Infarction To Enhance Bone Marrow Stem Cell Mobilization In Humans: Clinical And Angiographic Safety Profile. *Eur Heart J* 2005 Sep;26(18):1838-45.
19. **Valgimigli M**, Percoco G, Malagutti P, Campo G, Ferrari F, Barberi Cicchitelli G. D, McFadden E, Merlini F, Ansani L, Guardagli G, Bettini A, Parrinello G, Boersma E, Ferrari R. for the STRATEGY Investigators. Tirofiban And Sirolimus Eluting Stent Vs Abciximab And Bare Metal Stent For Acute Myocardial Infarction: A Randomized Trial. *JAMA* 2005; 293(17):2109-17.
  20. Hofma SH, Ong ATL, Aoki J, Van Mieghem MC, Rodrieguez-Granillo GA, **Valgimigli M**, Regar E, de Jaegere PP, McFadden EP, Sianos G, van der Giessen WJ, de Feyter P, van Domburg RT, Serruys PW. One Year Clinical Follow-Up Of Paclitaxel- Eluting Stents For Acute Myocardial Infarction Compared To Sirolimus-Eluting Stents. *Heart*. 2005 Sep;91(9):1176-80.
  21. Rodrieguez-Granillo GA, Serruys PW, Garcia-Garcia HM, **Valgimigli M**, Van Mieghem C, McFadden EP, de Jaegere PP, de Feyter P, Coronary Artery Remodelling Is Related To Plaque Composition. *Heart*. 2006 Mar;92(3):388-91.
  22. Hoyer A, Van Mieghem C, Ong ATL, Aoki J, Rodrieguez-Granillo GA, **Valgimigli M**, Tsuchida K, Sianos G, McFadden E, van der Giessen WJ, de Feyter PJ, van Domburg RT, Serruys PW. Percutaneous Therapy Of Bifurcation Lesions With Drug-Eluting Stent Implantation: The Culotte Technique Revisited. *Int J Cardiovasc Interv* 2005;7(1):36-40.
  23. Rodrieguez-Granillo GA, Aoki J, Ong AT, **Valgimigli M**, Van Mieghem MC, Regar E, McFadden EP, de Feyter P, Serruys PW. Methodological Considerations And Approach To Cross-Technique Comparisons Using In Vivo Coronary Plaque Characterization Based On Intravascular Ultrasound Radiofrequency Data Analysis: Insights From The Integrated Biomarker And Imaging Study (Ibis). *Int J Cardiovasc Intervent* 2005;7(1):52-8.
  24. Van Mieghem C, Bruining N, Schaar JA, McFadden EP, Mollet N, Cademartiri F, Mastik F, Ligthart JM, Rodrieguez-Granillo GA, **Valgimigli M**, Sianos G, J. Van der Giessen W, Backx B, Morel MA, Es GA, Sawyer J.D, Kaplow J, Zalewski A, Steen AF, de Feyter P, Serruys PW. Rationale and methods of the integrated biomarker and imaging study (IBIS): combining invasive and non invasive imaging with biomarkers to detect subclinical atherosclerosis imaging with biomarkers to detect subclinical atherosclerosis and assess coronary lesion biology. *Int J Cardiovasc Imaging* 2005;21(4)425-41.
  25. Ong ATL, Aoki J, Van Mieghem MC, Rodrieguez-Granillo GA, **Valgimigli M**, Tsuchida K, Schennenschein K, Regar E, van der Giessen WJ, de Jaegere P, Sianos G, McFadden EP, de Feyter P, van Domburg RT, Serruys PW. Comparison of Short (one month) and long (twelve month) term outcomes of sirolimus versus paclitaxel eluting stents

in 293 consecutive patients with diabetes mellitus (from the RESEARCH and TSEARCH registries) *Am J Cardiol* 2005;96(3):358-62.

26. Tsuchida K, Ong ATL, Aoki J, Van Mieghem MC, Rodrieguez-Granillo GA, **Valgimigli M**, Sianos G, Regar E, McFadden EP, van der Giessen WJ, de Jaegere P, de Feyter P, van Domburg RT, Serruys PW. Immediate and one-year outcome of percutaneous intervention of Saphenous vein graft disease with paclitaxel-eluting stents. *Am J Cardiol* 2005;96(3):395-8.
27. Rodrieguez-Granillo G.A, **Valgimigli M**, Garcia-Garcia H, Ong A.T.L, Aoki J, Van Mieghem C, Tsuchida K, Sianos G, Regar E, McFadden EP, van der Giessen WJ, de Feyter P, van Domburg RT, Serruys PW. One-year clinical outcome after coronary stenting of very small vessels using 2.25 MM Sirolimus- and Paclitaxel-Eluting Stents: A Comparison between the research and T-Search Registries. *J Invasive Cardiol* 2005;17(8):409-12.
28. Rodrieguez-Granillo GA, **Valgimigli M**, Ong ATL, Aoki J, Van Mieghem C, Hoye A, Tsuchida K, McFadden EP, de Feyter P, Serruys PW. Paclitaxel-Eluting Stents for the treatment of Angiographically non-significant Atherosclerotic Lesions. *Int J Cardiovasc Interv* 2005;7(2):68-71.
29. Pedone C, Vijayakumar M, Ligthart JM, **Valgimigli M**, Biagini E, De Jong N, Serruys PW, Ten Cate FJ. Intracardiac echocardiography guidance during percutaneous transluminal septal myocardial ablation in patients with obstructive hypertrophic cardiomyopathy. *Int J Cardiovasc Interv* 2005;7(3):134-7.
30. Aoki J, Ong AT, Rodriguez Granillo GA, McFadden EP, van Mieghem CA, **Valgimigli M**, Tsuchida K, Sianos G, Regar E, de Jaegere PP, van der Giessen WJ, de Feyter PJ, van Domburg RT, Serruys PW. Full metal jacket" (stented length > or =64 mm) using drug-eluting stents for de novo coronary artery lesions. *American Heart Journal*. 2005 Nov;150(5):994-9.
31. Rodriguez-Granillo GA, Garcia-Garcia HM, Mc Fadden EP, **Valgimigli M**, Aoki J, de Feyter P, Serruys PW. In vivo intravascular ultrasound-derived thin-cap fibroatheroma detection using ultrasound radiofrequency data analysis. *J Am Coll Cardiol*. 2005 Dec 6;46(11):2038-42.
32. Hoye A, van Mieghem CA, Ong AT, Aoki J, Rodriguez Granillo GA, **Valgimigli M**, Tsuchida K, Sianos G, McFadden EP, van der Giessen WJ, de Feyter PJ, van Domburg RT, Serruys PW. Treatment of de novo bifurcation lesion: comparison of Sirolimus- and Paclitaxel- eluting stents. *Eurointervention* 2005 May;1(1):24-30.
33. Hoye A, Ong AT, Aoki J, van Mieghem, Rodriguez CA, Granillo GA, **Valgimigli M**, Sianos G, McFadden EP, van der Giessen WJ, de Feyter PJ, van Domburg RT, Serruys PW. Drug-eluting stent implantation for chronic total occlusion: comparison between the Sirolimus- and Paclitaxel- eluting stent. *Eurointervention* 2005(1):193-97.

34. Tsuchida K, Garcia-Garcia HM, Ong AT, **Valgimigli M**, Aoki J, Rademaker TA, Morel MA, van Es GA, Bruining N, Serruys PW. Revisiting late loss and neointimal volumetric measurements in a drug-eluting stent trial: analysis from the SPIRIT FIRST trial. *Cat Cardiovasc Interv.* 2006 Feb;67(2):188-97.
35. **Valgimigli M**, Rodriguez Granillo GA, Garcia-Garcia HM, Malagutti P, Regar E, de Jaegere P, de Feyter PJ, Serruys PW. Distance from the ostium as an independent determinant of coronary plaque composition in vivo: an intravascular ultrasound study based radiofrequency data analysis in humans. *European Heart Journal* 2006 Mar;27(6):655-63.
36. Biondi-Zoccai GG, Lotrionte M, Abbate A, Testa L, Remigi E, Burzotta F, **Valgimigli M**, Romagnoli E, Crea F, Agostoni P. Compliance with QUOROM and quality of reporting of overlapping meta-analyses on the role of acetylcysteine in the prevention of contrast associated nephropathy: case study. *BMJ.* 2006 Jan 28;332(7535):202-9.
37. Rodriguez-Granillo GA, Garcia-Garcia HM, Wentzel J, **Valgimigli M**, Tsuchida K, van der Giessen W, de Jaegere P, Regar E, de Feyter PJ, Serruys PW. Plaque composition and its relationship with acknowledged shear stress patterns in coronary arteries. *J Am Coll Cardiol.* 2006 Feb 21;47(4):884-5.
38. Agostoni P, **Valgimigli M**, Abbate A, Cosgrave J, Pilati M, Biondi-Zoccai GG. Is late luminal loss an accurate predictor of the clinical effectiveness of drug-eluting stents in the coronary arteries? *Am J Cardiol.* 2006 Mar 1;97(5):603-5.
39. Biondi-Zoccai GG, Abbate A, Agostoni P, **Valgimigli M**, Sangiorgi GM. Drawbacks of nonrandomized trials in acute coronary syndromes: direct and indirect comparison meta-analysis demonstrates the superiority of sirolimus- versus paclitaxel-eluting stents across 5854 patients. *Am J Cardiol.* 2006 Jan 1;97(1):151.
40. Steendijk P, Smits PC, **Valgimigli M**, van der Giessen WJ, Onderwater EE, Serruys PW. Intramyocardial injection of skeletal myoblasts: long-term follow-up with pressure-volume loops. *Nat Clin Pract Cardiovasc Med.* 2006 Mar;3 Suppl 1:S94-100.
41. Agostoni P, **Valgimigli M**, Biondi-Zoccai GG, Abbate A, Garcia Garcia HM, Anselmi M, Turri M, McFadden EP, Vassanelli C, Serruys PW, Colombo A. Clinical effectiveness of bare-metal stenting compared with balloon angioplasty in total coronary occlusions: insights from a systematic overview of randomized trials in light of the drug-eluting stent era. *Am Heart J* 2006 Mar;151(3):682-9.
42. Biagini E, **Valgimigli M**, Smits PC, Poldermans D, Schinkel AF, Rizzello V, Onderwater EE, Bountiukos M, Serruys PW. Stress and tissue Doppler echocardiographic evidence of effectiveness of myoblast transplantation in patients with ischaemic heart failure. *Eur J Heart Fail.* 2006 Oct;8(6):641-8.

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45. **Valgimigli M**, P.Malagutti, C.A.G.van Mieghem, S.Vania, J.M.Ligthart, G.Sianos, P.W.Serruys. Persistence of neointimal growth 12 months after intervention and occurrence of delayed restenosis in patients with left main coronary artery disease treated with drug eluting stents. *J Am Coll Cardiol*. 2006 Apr 4;47(7):1491-4.
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50. Rodriguez-Granillo GA, McFadden EP, **Valgimigli M**, Van Mieghem C, Regar E, de Feyter PJ, Serruys PW. Coronary plaque composition of nonculprit lesions, assessed by in vivo intracoronary ultrasound radio frequency data analysis, is related to clinical presentation. *Am Heart J* 2006,151:1020-4.

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### The six most important original papers

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2. **Valgimigli M**, Frigoli E, Heg D, Tijssen J, Jüni P, Vranckx P, Ozaki Y, Morice MC, Chevalier B, Onuma Y, Windecker S, Tonino PAL, Roffi M, Lesiak M, Mahfoud F, Bartunek J, Hildick-Smith D, Colombo A, Stanković G, Iñiguez A, Schultz C, Kornowski R, Ong PJJ, Alasnag M, Rodriguez AE, Moschovitis A, Laanmets P, Donahue M, Leonardi S, Smits PC; MASTER DAPT Investigators. Dual Antiplatelet Therapy after PCI in Patients at High Bleeding Risk. *N Engl J Med*. 2021 Aug 28. doi: 10.1056/NEJMoa2108749. Epub ahead of print. PMID: 34449185.
3. **Valgimigli M**, Frigoli E, Leonardi S, Rothenbühler M, Gagnor A, Calabrò P, Garducci S, Rubartelli P, Briguori C, Andò G, Repetto A, Limbruno U, Garbo R, Sganzerla P, Russo F, Lupi A, Cortese B, Ausiello A, Ierna S, Esposito G, Presbitero P, Santarelli A, Sardella G, Varbella F, Tresoldi S, de Cesare N, Rigattieri S, Zingarelli A, Tosi P, van 't Hof A, Boccuzzi G, Omerovic E, Sabaté M, Heg D, Jüni P, Vranckx P; MATRIX Investigators. Bivalirudin or Unfractionated Heparin in Acute Coronary Syndromes. *N Engl J Med*. 2015 Sep 10;373(11):997-1009. doi: 10.1056/NEJMoa1507854.
4. Piccolo R, Bona KH, Efthimiou O, Varenne O, Baldo A, Urban P, Kaiser C, Remkes W, Räber L, de Belder A, van 't Hof AWJ, Stankovic G, Lemos PA, Wilsgaard T, Reifart J, Rodriguez AE, Ribeiro EE, Seruys PWJC, Abizaid A, Sabaté M, Byrne RA, de la Torre Hernandez JM, Wijns W, Jüni P, Windecker S, **Valgimigli M**; Coronary Stent Trialists' Collaboration. Drug-eluting or bare-metal stents for percutaneous coronary intervention: a systematic review and individual patient data meta-analysis of randomised clinical trials. *Lancet*. 2019 Jun 22;393(10190):2503-2510. doi: 10.1016/S0140-6736(19)30474-X. Epub 2019 May 2
5. **Valgimigli M**, Frigoli E, Leonardi S, Vranckx P, Rothenbühler M, Tebaldi M, Varbella F, Calabrò P, Garducci S, Rubartelli P, Briguori C, Andó G, Ferrario M, Limbruno U, Garbo R, Sganzerla P, Russo F, Nazzaro M, Lupi A, Cortese B, Ausiello A, Ierna S, Esposito G, Ferrante G, Santarelli A, Sardella G, de Cesare N, Tosi P, van 't Hof A, Omerovic E, Brugaletta S, Windecker S, Heg D, Jüni P, on behalf of the MATRIX Investigators Radial versus femoral access and bivalirudin versus

unfractionated heparin in invasively managed patients with acute coronary syndrome (MATRIX): final 1-year results of a multicentre, randomised controlled trial. *Lancet*. 2018 Sep 8;392(10150):835-848.

6. Costa F, van Klaveren D, James S, Heg D, Räber L, Feres F, Pilgrim T, Hong MK, Kim HS, Colombo A, Steg PG, Zanchin T, Palmerini T, Wallentin L, Bhatt DL, Stone GW, Windecker S, Steyerberg EW, **Valgimigli M**; PRECISE-DAPT Study Investigators. Derivation and validation of the predicting bleeding complications in patients undergoing stent implantation and subsequent dual antiplatelet therapy (PRECISE-DAPT) score: a pooled analysis of individual-patient datasets from clinical trials. *Lancet*. 2017 Mar 11;389(10073):1025-1034.