

## PERSONAL DATA

- Date of birth: 19/01/1975; Place: Caserta, Italy
- Two daughters (born 2009, 2013)

## EDUCATION and TRAINING

- Classical studies high school diploma achieved in 1993 (full grades: 60/60).
- Degree in Medicine and Surgery achieved in 1999 at the “Second University of Naples” (SUN) with first-class honours (110/110) and praise.
- Postgraduate (specialisation) Diploma in Cardiac Surgery achieved in 2004 at the Department of Cardiothoracic and Respiratory Sciences of the SUN with full grades (50/50 and praise).
- PhD Degree in “Medical and Surgical Physiopathology of the Cardiorespiratory System and Associated Biotechnologies” achieved in 2008 at the Department of Cardiothoracic and Respiratory Sciences of the SUN with top-class grades.

## CARREER

- 1996-1997: Internship at the Institute of Surgical Anatomy of the Medical School of the SUN.
- 1997-1999: Internship at the Institute of Cardiology and Cardiac Surgery of the Medical School of the SUN.
- Professional Qualification for Medical Practice in 1999 with first-class honours (90/90).
- 1999-2004: course of Postgraduate Specialty Training in Cardiac Surgery at the Adult Cardiac Surgery Unit of the Monaldi Hospital, Cardiac Surgery School of the SUN.
- 2005: occasional self-employment contract of Research Consultancy for a project at the Dept. of Cardiothoracic and Respiratory Sciences of the SUN.
- 2006-2014: Assistant Professor of Cardiac Surgery at the Medical School of the SUN.
- 2007-: clinical activity as Staff Surgeon in the Cardiac Surgery Unit of the Dept. of Cardiovascular Surgery and Transplant at the Monaldi Hospital, Naples, Italy.
- 2014-: Associate Professor of Cardiac Surgery at the Medical School of the SUN.

## CONTINUING PROFESSIONAL EDUCATION

More than 30 Courses attended, among which:

- “1st Course for Medical Writing and Congress Presentation”, Brescia, Italy, April 2002, under the patronage of the Institute for Applied Language Studies, University of Edinburgh.
- Post-graduate Course “Aortic Symposium VIII”, Mount Sinai School of Medicine, New York, USA, May 2002.
- Post-graduate Courses at the 3rd, 4th, 5th EACTS/ESTS Joint Meetings from 2004 to 2006.
- Post-graduate Course “Current Concepts in Valvular Heart Disease” at the 3rd Biennial Meeting Society for Heart Valve Disease, Vancouver (BC, Canada), June 2005.
- 3rd, 5th and 9th Post-graduate Course “Surgery of the Thoracic Aorta”, Bologna, Italy, (2005, 2009 and 2015).
- Post-graduate Courses at the 21st, 22nd, 23rd, 25th, 26th, 27th, 29th EACTS Meetings, from 2007 to 2015.
- “Latest techniques in cardiac surgery” Leipzig (Germany), December 2007.
- Post-graduate Course within the 6th Biennial Meeting of the SHVD & HVSA, Barcelona (Spain), June 2011.
- “Aortic Valve Academy”, Wet-lab on aortic valve repair, IV edition, University of Milan, “Luigi Sacco” Hospital, Milan (Italy), October 2011
- “Edwards Sapien XT Training Program”, at Edwards EMEA Headquarters & Training Centre, Nyon (Switzerland), October 2012
- AHA Scientific Sessions 2012, Los Angeles, CA, November 2012.
- “Aortic Valve Repair: a step by step approach”, at the Institut Mutualiste Montsouris, Paris (France), February 2014

## SCIENTIFIC RESEARCH and RELATED ACTIVITIES

Since 1999: involved in the research activity of the Cardiac Surgery Unit, Dept. of Cardiothoracic Sciences, SUN, promoting, conducting and/or coordinating scientific studies, mainly on the following topics:

- ascending aorta diseases and bicuspid aortic valve,
- aortic dissection,
- anticoagulation issues for patients with heart valve prostheses,
- infective valve endocarditis,
- post-surgical mediastinitis
- performance of mechanical valve prostheses

Products of this activity are listed below (items 1-6).

### 1. SUCCESSFUL GRANT APPLICATIONS (projects)

- Member of a Research Unit in 3 two-year “PRIN” national projects cofunded by the Italian Ministry of University and Research in 2002, 2003 and 2006, respectively addressing the topics of dilatative diseases of the aorta, long-term outcomes of prosthetic heart valves, and biomechanics of bicuspid aortopathy (prot.# 2002064828, prot.# 2003062339, prot.# 2006063487).
- Principal Investigator of a three-year “Ricerca Finalizzata” national project, for young researchers, entitled “Multidisciplinary Translational Biomedics Approach to Bicuspid Aortic Valve-Related Aortopathy for the Development of New Clinical Diagnostic and Prognostic Tools” (code GR-2009-1580434), cofunded by the Italian Ministry of Health, Job and Social Politics.
- Research Unit coordinator in a three-year “FIRB” national project, on epigenetics and other molecular aspects of heart failure, cofunded by the Italian Ministry of University and Research in 2012 (prot.# RBFR124FEN).

### 2. PUBLICATIONS

- Authorship or co-authorship in about 300 publications:
  - 160 articles in scientific journals with impact factor
  - 9 articles in scientific journals without impact factor
  - 1 monograph with national distribution
  - 2 chapters in monographs with national distribution
  - 1 chapter in monograph with international distribution
  - editor of 1 monographic e-book (Frontiers in Physiology, Cardiovascular Physiology)
  - 140 abstracts of congress presentations (of which, 10 published in journals with impact factor)
- Bibliometric indicators:
  - Total Impact factor (according to JCR 2014): 366
  - ISI/Scopus h-index 2018= 32 (>2800 citations);
  - Google Scholar/PoP h-index= 36 (>4200 citations).

### 3. ORGANIZATION OF SCIENTIFIC MEETINGS:

1. monthly “Monaldi Seminars – Diagnostic and Therapeutic Protocols in Cardiology and Cardiovascular Surgery”, Naples, Italy, 2005-2006.
2. “Bicuspid Aortopathy from Basic Science to Clinic: the Network Approach”, Naples, Italy, 20 June 2013, under the patronage of the SICCH, the Italian Society of Cardiology and the Italian Society of Pediatric Cardiology.
3. 4th and 5th editions of the International Meeting on Aortic Disease, “New insights into an old problem”, Liège, Belgium, settembre 2014 and 2016.
4. Co-proposer and presenter of an AHA Scientific Session entitled “Bicuspid Aortic Valve Disease: Old Disease, New Ideas and Therapies”, included in the program of the American Heart Association Meeting, November 2014, Chicago, ILL.
5. Co-proposer and moderator of an Educational Session on bicuspid aortic valve disease in the Inaugural Scientific Meeting of the Heart Valve Society, Montecarlo, Monaco, May 2015.

### 4. INVITED FACULTY MEMBERSHIP IN INTERNATIONAL MEETINGS:

- 2nd and 3rd editions of the International Meeting on Aortic Disease, New insights into an old problem, Liège, Belgium, September 2010 and October 2012
- Interactive Course “Aortic Valve Repair: a step by step approach”, at the “Institut Mutualiste Montsouris”, Paris, France, February 2014
- Euro-Echo Imaging 2014, Joint Session with the ESC Working Group on Valvular Heart Disease, Vienna, Austria, December 2014
- Post-Graduate Course of the 28th EACTS Annual Meeting, Vascular Domain, Milan, Italy, October 2014
- Invited Discussant at the 26th, 28th and 29th editions of the EACTS Annual Meeting, (Barcelona 2012; Milan 2014; Amsterdam 2015)
- EuroValve 2015, Joint with the ESC Working Group on Valvular Heart Disease, Nice, France, March 2015
- First International Meeting of Aortic Diseases and Genetic Disorders, Barcelona, Spain, April 2015
- Advances in Science Session “Bicuspid aortic valve disease – new knowledge and open questions”, in the European Society of Cardiology (ESC) Congress 2015, London, UK, August 2015.
- Invited presentations at the EACTS Annual meetings 2016, 2017, 2018

#### 5. REFEREE FOR PEER-REVIEW SCIENTIFIC JOURNALS WITH I.F. including:

- Circulation;
- Journal of the American College of Cardiology;
- JACC – Cardiovascular Imaging;
- Heart;
- International Journal of Cardiology;
- Annals of Thoracic Surgery;
- European Journal of Cardiothoracic Surgery;
- Journal of Heart Valve Disease;
- Molecular Medicine,

and others

#### 6. INVOLVEMENT IN INTERNATIONAL RESEARCH GROUPS

- International Bicuspid Aortic Valve Consortium (BAVCon; PI: Dr S.C. Body, Harvard University, Brigham and Women Hospital, Boston, MA): Steering Committee member, local PI and co-leader of the Publication Committee.
- International Aortic Arch Surgery Study Group (IAASG; PI: Prof. T.D. Yan, Sydney, Australia): local PI.
- European Multicenter Study on Coronary Artery Bypass Grafting (E-CABG registry; PI: Prof. F. Biancari, Houlou, Finland).
- International Registry of Aortic Dissection (IRAD; PI: Prof. K. Eagle, Ann Arbor, MI).
- Member of the Task Force for Connective Tissue Disorders of the European Association of Cardio-Thoracic Surgery

#### TEACHING ACTIVITY

- Cardiac Surgery official lectures, student tutoring, seminars and examinations in the
  - Master Degree Course of Medicine and Surgery, SUN,
  - Nursing Master Degree, SUN,
  - Master Degree Course of Medicine and Surgery in English, SUN
  - Postgraduate Course (specialisation) of Cardiac Surgery, SUN
  - 2009-2013: PhD Course of “Medical and Surgical Physiopathology of the Cardiorespiratory System and Associated Biotechnologies”, SUN
  - 2013-today: PhD Course of “Translational Medicine”, SUN
  - 2014-today: Postgraduate Course of Cardiology, SUN (Diseases of the Aorta).
- 2006-2010: co-supervisor for a Master Degree Thesis in Bioengineering (at the Technical University of Milan, Italy) on computational modelling of the aortic valve and root.
- 2013: Opponent in a PhD Thesis dissertation at the Karolinska Institutet, Stockholm, Sweden (Cardiovascular Genetics and Genomic Group, Prof. P. Eriksson).
- 2015-today: Lectures at the EACTS (European Association for CardioThoracic Surgery) Academy Course “Introduction to Aortic Surgery”; EACTS House, Windsor, UK.

#### CLINICAL ACTIVITY

- Staff Surgeon at the Cardiac Surgery Unit of the Department of Cardiovascular Surgery and Transplant, Monaldi Hospital, Naples, Italy (more than 1100 cardiac surgical procedures).
- Endovascular Aortic Treatment Program
- Transcatheter Aortic Valve Implantation Program (trans-apical, transfemoral)
- Heart Transplant Program

#### PROFESSIONAL SOCIETIES FELLOWSHIPS

- EACTS, SICCH, HVS