

## **Contacts**

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## **Current position**

Director of the School of Cardiovascular Diseases, University of Torino  
Associate Professor of Cardiology, Department of Medical Sciences  
University of Torino, Torino, Italy

## **Past positions**

Nov 2017– Present: Director of the School of Cardiovascular Diseases, University of Torino  
Oct 2015 – Present: Associate Professor of Cardiology, Department of Medical Sciences,  
University of Torino  
Dec 2010 – Oct 2015: Assistant Professor of Cardiology (MED/11), Department of Medical  
Sciences, University of Torino. Responsibility for the study of arrhythmias, Division of Cardiology,  
“Città della Salute e della Scienza” Hospital, Torino  
2004-2010: Division of Cardiology of the Cardinal Massaia Hospital in Asti  
2002-2004: Division of Cardiology of the Mauriziano Hospital of Torino  
1991-2002: Division of Cardiology of the University of Torino, “S. Giovanni Battista” Hospital,  
Torino

## **Education**

1992: Foreign Medical Graduate Examination in the Medical Sciences (FMGEMS)  
1984- 1988: Specialist Training in Cardiology, University of Torino, grade 70/70 cum laude  
1978- 1984: School of Medicine and Surgery, University of Torino, degree with 110/110 with  
honors

## **Professional activity**

Since 1983 she has been involved in the study of arrhythmology and in 1987 began to perform electrophysiological studies.

In the period 1991-2002, assistant at the University Division of Cardiology, she dealt in particular with electrophysiology, pacemaker and automatic defibrillators implantation, outpatients clinic for the study of arrhythmias and dynamic electrocardiography (Holter monitoring). From '96 to '98 she carried out clinical activity mainly in the Coronary Intensive Care Unit. In 2002 she moved to the Cardiology Division of the Mauriziano Hospital of Torino, directed by Prof. Gaita, where she dealt mainly with arrhythmology and in particular with genetically determined arrhythmias. At the Cardiology Division of the Cardinal Massaia Hospital of Asti (2004-2010) she was responsible for the management of patients with genetically determined arrhythmias and promoted the molecular analysis for the genetic diagnosis of ion channels diseases, and in particular of the Brugada syndrome, at the Medical Genetics Unit of the San Luigi Gonzaga di Orbassano Hospital, the only center in Piedmont to have developed this type of investigation.

From December 2010 assistant professor and from October 2015 associate professor at the University Division of Cardiology of the S. Giovanni Battista Hospital in Torino. She deals mainly with patients with arrhythmological problems, hospitalized or in the outpatient clinic for the study of genetic arrhythmias, which is a regional reference point for this type of disease.

### Scientific activity. Main fields of interest

- Wolff-Parkinson-White syndrome, interest that has produced several publications, including "Stress and pharmacologic tests as methods to identify patients with Wolff-Parkinson's" White syndrome at risk of sudden death ", Am J Cardiol (1989) and "Wolff-Parkinson-White syndrome. Identification and management ", Drugs (1992). "Catheter ablation of permanent junctional reciprocating tachycardia with radiofrequency current", J Am Coll Cardiol (1995) relative to the ablative RF treatment of a rare variety of accessory pathway, responsible for tachycardiomyopathies, especially in children involved two French centers. Data were collected from the Cardiology of Asti and two French centers and still represent one of the most relevant published series. "Safety and efficacy of cryoablation of accessory pathways adjacent to the normal conduction system", J Cardiovasc Electrophysiol (2003), derives from the interest in the development of energy sources suitable for the ablation of anomalous pathways close to normal conduction tissue.
- Idiopathic ventricular tachycardias. "Idiopathic verapamil-responsive left ventricular tachycardia: clinical characteristics and long-term follow-up of 33 patients", Eur J Cardiol (1994), relevant series of a rare tachycardia, result of the collaboration with two French. "Long-term follow-up of right ventricular monomorphic extrasystoles", J Am Coll Cardiol (2001), the long-term follow-up of a group of 61 patients with right ventricular extrasystoles without clinical or instrumental signs of heart disease.
- Brugada syndrome. In 2001, together with Prof. F. Gaita she proposed a study protocol and a registry, which still collects the data of patients with Brugada syndrome in the Piedmont region. The first report, "Risk stratification of patients with Brugada type electrocardiogram: a community-based prospective study", was published in Europace (2009). She has collaborated in other initiatives at national and international level and is therefore co-author of "Natural history of Brugada syndrome: insights for risk stratification and management", Circulation (2002) and of "Long-term prognosis of patients diagnosed with Brugada syndrome: results from the FINGER Brugada syndrome registry", European study involving over 1000 patients with the ECG pattern of Brugada, Circulation (2010). "Atrial fibrillation in a large population with Brugada electrocardiographic pattern...", Heart Rhythm (2014), "Prevalence of type 1 Brugada electrocardiographic pattern evaluated by twelve-lead twenty-four-hour Holter monitoring", Am J Cardiol (2015), "Etiological diagnosis, prognostic significance and role of electrophysiological study in patients with Brugada ECG and syncope", Int J Cardiol (2017), are other paper originated by the Brugada registry. Since 2017 from the participation in an international collaboration promoted by Prof. Belhassen (Tel-Aviv), collecting data from 678 patients with Brugada syndrome and a major arrhythmic event, a series of paper have been published: "Arrhythmia and Electrophysiology "Age of first arrhythmic event in Brugada Syndrome: data from the Survey on Arrhythmic Events in Brugada Syndrome in 678 patients ", Circulation Arrhythmia and Electrophysiology (2017) "Profile of patients with Brugada syndrome presenting with their first documented arrhythmic event", Heart Rhythm (2018) and "Characterization and Management of Arrhythmic Events in Young Patients With Brugada Syndrome", J Am coll Cardiol (2019).
- She contributed to the description of the short QT syndrome with "Short QT syndrome: a familial cause of sudden death", Circulation (2003), "Sudden death associated with short QT syndrome linked to mutations in HERG", Circulation (2004), "Short QT syndrome: pharmacological treatment", J Am Coll Cardiol (2004), which identifies in quinidine the only antiarrhythmic able to normalize the duration of the QT interval in subjects with short QT. The follow-up of one of the largest group of patients with Short QT syndrome is described in "Long-Term Follow-up of Patients with Short QT Syndrome" Eur J Cardiol (2006) and in "Short QT

syndrome: clinical findings and diagnostic-therapeutic implications”, J Am Coll Cardiol 2011; the role of stress test in the diagnosis of SQTs in “Usefulness of exercise test in the diagnosis of short QT syndrome”, Europace (2015).

#### **Research activities characterized by collaborations at national or international level**

- Apr 2019: member Italian Association of Arrhythmology and Cardiac Stimulation (AIAC) Congress Scientific committee (Genetics and channelopathies)
- Mar 2018– Present: Member of the editorial board of the European Journal of Heart Failure
- Mar 2017 – Present: Responsible for the "European Short QT Registry", approved by the Ethic Committee of the "Città della Salute e della Scienza" Hospital of Turin (over 90 patients).
- Jan 2016 – Present: Responsible for the Brugada Registry of the Piedmont Region, approved by the Ethic Committee of the "Città della Salute e della Scienza" Hospital of Torino (over 1000 patients).
- Jul 2014 – Present: member of the Genetic group of the and of the Working Group on Myocardial and Pericardial Diseases of the European Society of Cardiology.
- PRIN 2010: "Functional genomics, iPS cells, exome sequencing: multidisciplinary strategy for the individualized management of inherited arrhythmogenic diseases", role: participant

#### **Teaching Activity at the University of Torino**

- Nov 2017 – Present: member of the Faculty Board of the Doctoral School in Experimental Medicine and Therapy
- Nov 2016 – Present: teaching of Cardiology in the University School in Dentistry and Dental Prosthetics
- Nov 2017 – Present: teaching of Cardiology in the Schools of Cardiac Surgery, Nephrology, Physical and Rehabilitative Medicine and Neurology
- Nov 2016 – Present: teaching of Cardiology in the Chest Clinic and Pathology course, School of Medicine
- Nov 2011– Oct 2017: teaching of Cardiology in the Cardiovascular and Respiratory Diseases course, School of Medicine, S. Luigi Gonzaga di Orbassano.
- Nov 2009 – Present: teaching of Electrocardiography in the School of Cardiology
- Nov 2007– Oct 2009: teaching assignment of Cardiovascular Diseases at the Interuniversity School of Physical Education (SUISM) of the University of Torino.

#### **Publishing activities**

SCOPUS: h-index=29, number of paper=93, number of citations= 5042

Reviewer for Circulation, European Heart Journal, Eur J Heart Failure, Heart Rhythm, Circulation Arrhythmias and Electrophysiology, Europace, International Journal of Cardiology, Cardiogenetics.

Torino, April 15, 2019