

## **Biography: Paolo Macchiarini, MD, PhD**

Dr. Paolo Macchiarini earned his medical degree at the Pisa (Italy) University School of Medicine in 1986, and then completed postgraduate training in general surgery at the same University before spending a two-years clinical fellowship at the University of Alabama at Birmingham under the supervision of Drs. Richard McElvein and John Kirklin. He started then his training in general thoracic and vascular surgery and heart-lung transplantation and research at the Centre Chirurgicale Marie-Lannelongue (CCML) in Paris under the supervision of Prof. Philippe Dartevelle. He was a consultant at the CCML until 1998 during which he earned his PhD in organ and tissue transplantation at the Franche-Compte University in France with a thesis in "allotransplantation of the trachea". He became Chairman of the Department of General Thoracic and Vascular Surgery at the Heidehaus Hospital and Professor of Surgery at the Hannover (Germany) Medical School in 1999. He then became Chairman of the Department of General Thoracic Surgery at the Hospital Clinic in Barcelona (Spain). In 2010, he joined the Karolinska Institutet in Stockholm as Professor of Regenerative Surgery and Director of the European Airway Institute and Advanced Center of Translational Regenerative Medicine. He is actually as well the Director of the European Thoracic Research Center in Florence (Italy). Dr. Macchiarini's clinical interests include surgery for adult and pediatric complex tracheal, lung, esophageal and mediastinal diseases, as well as intrathoracic, non-cardiac transplantation (lung, heart-lung and airways).

His primary research interest involves the allotransplantation of airways, where he first described the technique for laryngotracheal allotransplantation and, more recently, tissue-engineered airway replacements. Dr. Macchiarini made transplant history by using stem cells to help achieve the world's first successful in-human transplantation of a tissue-engineered organ (windpipe) without immunosuppression (Barcelona, 2008), the first laryngotracheal allotransplantation at the University California at Davis (2010), and more recently, the first tracheobronchial replacement using a completely artificial, lab-made nanocomposite (Stockholm, 2011). He has contributed to more than 150 articles in peer-reviewed journals and 40 book chapters. He has received numerous awards and is Visiting or Honorary Professor in several leading Academic Institutions worldwide. Has been recently nominated "Knight" for scientific merits by the President of Italy.