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## Curriculum Vitae Professor Dr. Rolf Rossaint

**Name:** Rolf Rossaint  
**Born:** 26 June 1958  
**Family Status:** married



### Academic and Professional Career

- since 2002 Vice-rector of the RWTH Aachen University, Germany
- since 1997 Professor and Chairman of the Department of Anaesthesiology of the University Hospital at the RWTH University Aachen, Germany
- 1993 Habilitation, Medical Faculty, FU Berlin, Germany
- 1988 - 1997 Leading head physician at the Department of Anaesthesiology and Surgical Intensive Care at the University Hospital Rudolf Virchow of FU Berlin, Germany
- 1983 - 1988 Resident at the Centre for Anaesthesiology of the Heinrich-Heine-University Düsseldorf, Germany
- 1983 Doctoral thesis at the Medical Faculty at the Heinrich-Heine-University Düsseldorf, Germany
- 1977 - 1983 Medical study at the Heinrich-Heine-University Düsseldorf, Germany

### **Project coordination, Membership in collaborative research projects (Selection)**

- 2011 - 2013    InnoMeT.NRW
- 2008 - 2011    Smart-Life-Support (DFG-Package-application)
- 2007 - 2010    Med-on@Aix: e-health in prehospital emergency medicine (BWI)

### **Functions in Scientific Societies and Committees (Selection)**

- since 2012    Member of the „Fachkollegiat“ of the German Research Foundation
- since 2008    Medical director of the Malteser Rettungsschule Aachen
- since 2007    chairman of the NRW German Society of Anaesthesiology and Intensive Care

### **Honours and Awarded Memberships (Selection)**

- 1996            Annual Scientific Award of the 16th International Symposium on Intensive Care and  
Emergency Medicine, Brussels
- 1993            Pulmedica-Award
- 1993            E.K. Frey Award (for basic research in the field of inhaled nitric oxide as a selective  
pulmonary vasodilator (Rossaint et al. NEJM 1993)
- 1992            Award of the "European Academy of Anaesthesiology"

## Major Scientific Interests

Rolf Rossaint, full professor of Anesthesiology at the RWTH Aachen, has been publishing high quality studies dealing with the treatment of severe acute respiratory distress syndrome (ARDS) for more than 20 years. He was the first to demonstrate that inhaled nitric oxide in patients suffering from ARDS caused a selective pulmonary vasodilation resulting in a decrease of pulmonary artery pressure and an increase in arterial oxygenation. He set up centres for ARDS treatment in Berlin and Aachen, active nationally, which were able to use extracorporeal lung assistance in case all conventional means to maintain gas exchange failed. He aims at the development of implantable lung assist devices in collaboration with the engineering faculties of the RWTH Aachen.

In the last 12 years he has published numerous important experimental and clinical studies dealing with the noble gas Xenon. These studies resulted in the licence to use Xenon as an inhalational anaesthetic. Rolf Rossaint showed that Xenon has not only an anaesthetic effect but is also cardio- and neuroprotective. Furthermore, his experimental work proves that similar neuroprotective effects are associated with the noble gases helium and argon. In the next years he would like to confirm the promising results of his preclinical research in clinical studies.

A further interest is in basic research on the pathophysiology of trauma associated coagulopathy and possible treatments. An international expert group, which is chaired by him, summarizes every three years the knowledge gained from new clinical studies and publishes European guidelines on the management of traumatic induced bleeding.

Another major scientific interest is the use of e-health in prehospital emergency medicine. In a collaboration between engineers and physicians a telemedicine based prehospital emergency system is in development which will improve the quality of care as well as the better use of resources.