

PD Dr. rer. nat. Dr. med habil. Judith Haendeler

born 7th of July 1969 in Bergisch Gladbach, Germany

present position and address

Independent group leader of Molecular Aging Research at the Leibniz-Institute for Preventive Medicine (IUF) at the University of Duesseldorf
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education and training

1988-1993: Study of Chemistry at the University of Cologne
1994: Diploma Thesis at Max-Planck Institute for Plant Breeding Research Cologne
1995-1997: PhD Thesis at the Molecular Cardiology Frankfurt and at the University of Cologne Degree: Dr.rer.nat.
1998-2000: Postdoctoral Fellow (Stipendium Deutsche Forschungsgemeinschaft), University of Seattle, WA, USA and University Rochester, NY, USA
2001-2003: Senior Postdoc (Habilitation) at the Molecular Cardiology Frankfurt

academic appointments

2004: Habilitation and Venia legendi in Experimental Medicine at the Medical Faculty of the Johann-Wolfgang-Goethe-University, Frankfurt
2004-2006: Independent group leader at the Molecular Molecular Cardiology Frankfurt
2007-: Independent group leader of Molecular Aging Research at the Leibniz-Institute for Preventive Medicine (IUF) at the University of Duesseldorf
2008: Umhabilitation and Venia Legendi in Experimental Medicine at the Medical Faculty of the Heinrich-Heine-University Duesseldorf

positions in professional organizations

Editorial Boards: Circulation Research, Arteriosclerosis Thrombosis Vascular Biology; Steering Committees: Collaborative Research Center 728 for Environmental induced Aging Processes, Biologisch Medizinisches Forschungszentrums (BMFZ) at the University of Duesseldorf

fellowships / honours

1998-2000 Research Stipend (Deutsche Forschungsgemeinschaft)
2000: Louis N. and Arnold M. Katz Young Investigator Award, American Heart Association
2002: Poster-Research Price of the Physiology-/Cardiology-Workshop
2005: August Wilhelm und Lieselotte Becht-Research price of the German Foundation for Cardiovascular Research
2005: Research Price of the Physiology-/Cardiology-Workshop
2006: Signaltransduction Society (STS) Award for most innovative Research

5 major publications

Lukosz M*, Jakob S*, Büchner N, Zschauer T-C, Altschmied J, Haendeler J (2010) Nuclear redox signalling. *Antioxid Redox Signal* **12**: 713-742 (*contributed equally)
Haendeler J*, Droese S, Buechner N, Jakob S, Altschmied J, Goy C, Spyridopoulos I, Zeiher AM, Brandt U, Dimmeler S (2009) Mitochondrial TERT protects mitochondrial DNA and function in vitro and in vivo. *Arterioscler Thromb Vasc Biol* **29**: 929-935 (* first and corresponding author)
Spyridopoulos I, Fichtlscherer S, Popp R, Toennes SW, Fisslthaler B, Trepels T, Zerneck A, Liehn EA, Weber C, Zeiher AM, Dimmeler S, Haendeler J (2008) Caffeine enhances endothelial repair by an AMPK-dependent mechanism. *Arterioscler Thromb Vasc Biol* **28**: 1967-1974
Haendeler J, Hoffmann J, Zeiher AM, Dimmeler S (2004) Antioxidant effects of statins via S-nitrosylation and activation of thioredoxin in endothelial cells: a novel vasculoprotective function of statins. *Circulation* **110**: 856-861
Haendeler J, Hoffmann J, Tischler V, Berk, BC, Zeiher AM, Dimmeler S.(2002) Redox regulatory and anti-apoptotic functions of thioredoxin depend on S-nitrosylation at cysteine 69. *Nat Cell Biol* **4**: 743-749

major research interest

- Nitric oxide bioavailability in endothelial cells
- Signalling involved in cardiovascular aging
- Environment/air pollutants and their effect on vascular signaling