

General information

Name	Haendeler, Judith , Univ. Prof. Dr. rer. nat.
Date of birth	07.07.1969, Bergisch Gladbach, female
Work address	Environmentally-induced Cardiovascular Degeneration, Clinical Chemistry and Laboratory Diagnostics, Medical Faculty, University Hospital and Heinrich Heine University Düsseldorf
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Email:	Judith.Haendeler@hhu.de
Current position	Principal investigator
Children	/

University training and degree

Subjects of study	1988-1994, Chemistry, University of Cologne and Max Planck Institute for Plant Breeding Research, Diplom-Chemikerin
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Advanced academic qualifications

Habilitation (changed)	2008, Habilitation and Venia legendi: Experimental Medicine, Medical Faculty, Heinrich Heine University Düsseldorf, Prof. Dr. J. Krutmann
Habilitation	2004, Habilitation and Venia legendi: Experimental Medicine, Medical Faculty, Johann-Wolfgang Goethe University Frankfurt, Prof. Dr. A.M. Zeiher
Doctorate	1997, Dr. rer. nat., University of Cologne, Prof. Dr. S. Waffenschmidt

Postgraduate professional career

since 2020	Professor (tenured), Medical Faculty, Heinrich Heine University Düsseldorf
2014-2019	Heisenberg-Professor for Environmentally-induced cardiovascular degeneration, Medical Faculty, Heinrich Heine-University Düsseldorf and IUF-Leibniz Research Institute for Environmental Medicine
2007-2014	Principal Investigator, IUF-Leibniz Research Institute for Environmental Medicine
2000-2006	Group Leader, Molecular Cardiology, University Hospital of the Johann-Wolfgang Goethe University, Frankfurt
1988-2000	Postdoctoral Fellow, Center for Cardiovascular Research, University of Rochester, Rochester, NY, USA
1998	Postdoctoral Fellow, University of Washington, Seattle, WA, USA
1997-1998	Postdoctoral Fellow, Molecular Cardiology, University Hospital of the Johann-Wolfgang Goethe University, Frankfurt

Other

since 2021	Editorial Board member Antioxidants
	Editorial Board member Vascular Pharmacology
	Editorial Board member Mechanisms of Ageing and Development

since 2019	Editorial Board member Genes
since 2010	Board of Directors Biological-Medical Research Center (BMFZ), Heinrich Heine University Düsseldorf
2010-2016	Board of Directors German Society of Gerontology and Geriatrics e.V.
2009-2010	Deputy Chairwoman Section I (Biogerontology) German Society of Gerontology and Geriatrics e.V.
since 2008	Grant reviewer for the German Research Foundation (DFG)
2007-2011	Board of Directors Collaborative Research Center (SFB) 728
2006	Coordinator Research Area H "Molecular Senescence – Aging of the Cardiopulmonary System" Excellence Cluster ECCPS Science Award Signal Transduction Society (STS) August Wilhelm und Lieselotte Becht-Research Prize German Foundation for Heart Research
2005	Young Investigator Award 21. Cardiology-Physiology Workshop, Würzburg
2002	Young Investigator Award 18. Cardiology-Physiology Workshop, Stuttgart
2000	Louis N. and Arnold M. Katz Young Investigator Award, American Heart Association Finalist
1998-2000	Foreign Country Stipend, German Research Foundation (DFG)

10 most important publications

1. Ale-Agha N, Jakobs P, Goy C, Zurek M, Rosen J, Dyballa-Rukes N, Metzger S, Greulich J, von Ameln F, Eckermann O, Unfried K, Brack F, Grandoch M, Thielmann M, Kamler M, Gedik N, Kleinbongard P, Heinen A, Heusch G, Gödecke A, Altschmied J*, **Haendeler J***. Mitochondrial Telomerase Reverse Transcriptase Protects From Myocardial Ischemia/Reperfusion Injury by Improving Complex I Composition and Function. *Circulation*. 2021;144:1876-1890.
2. Merk D, Ptok J, Jakobs P, von Ameln F, Greulich J, Kluge P, Semperowitsch K, Eckermann O, Schaal H, Ale-Agha N, Altschmied J, **Haendeler J**. Selenoprotein T Protects Endothelial Cells against Lipopolysaccharide-Induced Activation and Apoptosis. *Antioxidants (Basel)*. 2021;10.
3. Rosen J, Jakobs P, Ale-Agha N, Altschmied J, **Haendeler J**. Non-canonical functions of Telomerase Reverse Transcriptase - Impact on redox homeostasis. *Redox Biol*. 2020;34:101543.
4. Grandoch M, Flügel U, Virtue S, Maier JK, Jelenik T, Kohlmorgen C, Feldmann K, Ostendorf Y, Castaneda TR, Zhou Z, Yamaguchi Y, Nascimento EBM, Sunkari VG, Goy C, Kinzig M, Sorgel F, Bollyky PL, Schrauwen P, Al-Hasani H, Roden M, Keipert S, Vidal-Puig A, Jastroch M, **Haendeler J**, Fischer JW. 4-Methylumbelliferone improves the thermogenic capacity of brown adipose tissue. *Nat Metab*. 2019;1:546-559.
5. Ale-Agha N, Goy C, Jakobs P, Spyridopoulos I, Gonnissen S, Dyballa-Rukes N, Aufenvenne K, von Ameln F, Zurek M, Spannbrucker T, Eckermann O, Jakob S, Gorressen S, Abrams M, Grandoch M, Fischer JW, Köhrer K, Deenen R, Unfried K, Altschmied J*, **Haendeler J***. CDKN1B/p27 is localized in mitochondria and improves respiration-dependent processes in the cardiovascular system-New mode of action for caffeine. *PLoS Biol*. 2018;16:e2004408.
6. Dyballa-Rukes N, Jakobs P, Eckers A, Ale-Agha N, Serbulea V, Aufenvenne K, Zschauer TC, Rabanter LL, Jakob S, von Ameln F, Eckermann O, Leitinger N, Goy C, Altschmied J, **Haendeler J**. The Anti-Apoptotic Properties of APEX1 in the Endothelium Require the First 20 Amino Acids and Converge on Thioredoxin-1. *Antioxid Redox Signal*. 2017;26:616-629.

7. **Haendeler J***, Mlynek A, Büchner N, Lukosz M, Graf M, Guettler C, Jakob S, Farrokh S, Kunze K, Goy C, Guardiola-Serrano F, Schaal H, Cortese-Krott M, Deenen R, Köhrer K, Winkler C, Altschmied J*. Two isoforms of Sister-Of-Mammalian Grainyhead have opposing functions in endothelial cells and in vivo. *Arterioscler Thromb Vasc Biol.* 2013;33:1639-1646.
8. Spyridopoulos I, Fichtlscherer S, Popp R, Toennes SW, Fisslthaler B, Trepels T, Zerneck A, Liehn EA, Weber C, Zeiher AM, Dimmeler S, **Haendeler J**. Caffeine enhances endothelial repair by an AMPK-dependent mechanism. *Arterioscler Thromb Vasc Biol.* 2008;28:1967-1974.
9. **Haendeler J**, Hoffmann J, Zeiher AM, Dimmeler S. Antioxidant effects of statins via S-nitrosylation and activation of thioredoxin in endothelial cells: a novel vasculoprotective function of statins. *Circulation.* 2004;110:856-861.
10. **Haendeler J**, Hoffmann J, Tischler V, Berk BC, Zeiher AM, Dimmeler S. Redox regulatory and anti-apoptotic functions of thioredoxin depend on S-nitrosylation at cysteine 69. *Nat Cell Biol.* 2002;4:743-749.