1) General information

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Heisenberg-group - Environmentally-induced cardiovascular degeneration
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Current position:
Heisenberg Professor

2) University training and degree

1988 - 1993	Study of Chemistry at the University of Cologne
1994	Diploma Thesis at Max-Planck Institute for Plant Breeding Research, Cologne, degree Dipl. Chem.

3) Advanced academic qualifications

1995 – 1997	PhD Thesis at the Molecular Cardiology Frankfurt and at the University of Cologne
1997	Doctorate: Dr. rer. nat., University of Cologne, Germany

4) Postgraduate professional career

1998 - 2000	Postdoctoral Fellow (Fellowship Deutsche Forschungsgemeinschaft), University of Seattle, WA, USA and University Rochester, NY, USA
2001 – 2003	Senior Postdoc (Habilitand) at the Molecular Cardiology Frankfurt
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 – 2014	Independent group leader of Molecular Aging Research at the IUF –Leibniz Research Institute for Environmental Medicine, Düsseldorf
2008	Umhabilitation and Venia Legendi in Experimental Medicine at the Medical Faculty of the Heinrich-Heine-University Düsseldorf
2014 - present	Heisenberg Professor/Univ.-Professor "Heisenberg-group - Environmentally-induced cardiovascular degeneration", Institute for Clinical Chemistry, University of Düsseldorf

5) Other

Membership and professional functions

1995 - present	Deutsche Gesellschaft für Kardiologie, Herz- und Kreislaufforschung
2000 - present	American Heart Association
2008 - present	German Society for Gerontology and Geriatric Medicine
2013 - present	German Genetics Society

Honors and awards

2000	Louis N. and Arnold M. Katz Finalist for the 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
2006	Signal Transduction Society (STS) Award for most innovative Research

2010 – present	Steering Committee of Biologisch Medizinisches Forschungszentrums (BMFZ) at the University of Düsseldorf
2010 – present	Steering Committee of the German Society of Gerontology and Geriatric Medicine

6) Publications

1. Jakobs P*, Serbulea V*, Leitinger N, Eckers A, **Haendeler J**. Nuclear factor (erythroid-derived 2)-like 2 and Thioredoxin-1 in atherosclerosis and ischemia/reperfusion injury in the heart. Antioxid Redox Signal. 2017;PMID: 27923281 *equal cotribution
2. 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 twenty amino acids and converge on thioredoxin-1. Antioxid Redox Signal. 2016;PMID: 27835927T *equal cotribution
3. Eckers A*, Jakob S*, Heiss C*, Haarmann-Stemmann T, Goy C, Brinkmann V, Cortese-Krott MM, Sansone R, Esser C, Ale-Agha N, Altschmied J, Ventura N, **Haendeler J**. The aryl hydrocarbon receptor promotes aging phenotypes across species. Sci Rep. 2016;6:19618 *equal cotribution
4. Zschauer TC, Matsushima S, Altschmied J, Shao D, Sadoshima J, **Haendeler J**. Interacting with thioredoxin-1-disease or no disease? Antioxid Redox Signal. 2013;18:1053-1062
5. Zschauer TC, Kunze K, Jakob S, **Haendeler J*[#],** Altschmied J*. Oxidative stress induced degradation of Thioredoxin-1 and apoptosis is inhibited by Thioredoxin-1/actin interaction in endothelial cells. Arterioscler Thromb Vasc Biol. 2011;31:650-656 [#]corresponding author; *equal contribution
6. **Haendeler J**[#], Drose S, Buchner N, Jakob S, Altschmied J, Goy C, Spyridopoulos I, Zeiher AM, Brandt U, Dimmeler S. Mitochondrial telomerase reverse transcriptase binds to and protects mitochondrial DNA and function from damage. Arterioscler Thromb Vasc Biol. 2009;29:929-935 [#]corresponding author
7. Spyridopoulos I, Fichtlscherer S, Popp R, Toennes SW, Fisslthaler B, Trepels T, Zernecke 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
8. Walter DH*, **Haendeler J***, Reinhold J*, Rochwalsky U, Seeger F, Honold J, Hoffmann J, Urbich C, Lehmann R, Arenzana-Seisdesdos F, Aicher A, Heeschen C, Fichtlscherer S, Zeiher AM, Dimmeler S. Impaired cxcr4 signaling contributes to the reduced neovascularization capacity of endothelial progenitor cells from patients with coronary artery disease. Circ Res. 2005;97:1142-1151 *equal contribution
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