

Short CV

Britt Hofmann, MD, MSc, PhD

1988-1994: Study of human medicine at the Martin-Luther-University Halle-Wittenberg

April 1996: Approbation as a doctor

März 1998: Doctorate at the Bavarian Julius-Maximilians-University Würzburg

Mai 2001: Specialist recognition for cardiac surgery

Juli 2006: Master of Science, University of Toronto, Canada

Februar 2015: Habilitation in the field of cardiac and thoracic surgery

Last professional activities:

01.2002 - 12.2002: Senior Transplant Fellow, Cardiothoracic transplant unit, Freeman Hospital, University of Newcastle, UK

01.2003 - 04.2004: Research Fellow, Hospital for Sick Children, 555 University Avenue, Toronto, ON, Canada

05.2004 - 04.2005: Specialist at the West German Heart Center, University Hospital Essen

05.2005 - 03.2007: Cardiac Surgeon, Department of Cardiothoracic Surgery University Hospital Halle

04.2007 - 10.2018: Consultant surgeon, Department of Cardiac Surgery, Mid-German Heart Center, University Hospital Halle

11.2018: Senior consultant surgeon, Department of Cardiac Surgery, Mid-German Heart Center, University Hospital Halle

12.2018 - 04.2020: Temporary Head, Department of Cardiac Surgery, Mid-German Heart Center, University Hospital Halle

since 05.2020: Senior consultant surgeon, Department of Cardiac Surgery, Mid-German Heart Center, University Hospital Halle

Selected publications:

Hofmann B, Gerull KA, Bloch K, Riemer M, Erbs C, Fröhlich A, Richter S, Ehrhardt M, Zitterbart C, Bartel FF, Siegel P, Wienke A, Silber RE, Simm A. It's all in our skin - skin autofluorescence - a promising outcome predictor in cardiac surgery: a single centre cohort study. PLoS One. 2020 Jun 29;15(6): e0234847. DOI: 10.1371/journal.pone.0234847.

Bartling B, Schwarzmann L, Pliquett RU, Simm A, Hofmann B. Simultaneously influence of sex and age on the blood pressure difference between supine and sitting body position. Z Gerontol Geriat 2020. DOI 10.1007/s00391-020-01756-9.

Hofmann B, Simm A. Does Calendrical Age Define Geriatric Patients? Aktuelle Kardiologie 2020; 9(05): 424 – 430. DOI: 10.1055/a-1236-7228.

Periodontal pathogens and their role in cardiovascular outcome. Schulz S, Schlitt A, Hofmann B, Schaller HG, Reichert S. J Clin Periodontol. 2020 Feb; 47(2):173-181. DOI: 10.1111/jcpe.13224.

Neumann J, Hofmann B, Gergs U. On Inotropic Effects of UTP in the Human Heart. Heliyon. 2019 Aug 2;5(8): e02197. DOI: 10.1016/j.heliyon.2019.e02197.

Joachim Neumann, Britt Hofmann and Ulrich Gergs. Production and Function of Serotonin in Cardiac Cells. Chapter 13, page 271-305, <http://dx.doi.org/10.5772/intechopen.69111>, In: Serotonin - A Chemical Messenger Between All Types of Living Cells. ISBN: 978-953-51-3361-2.

Hofmann B, Kaufmann C, Stiller M, Neitzel T, Wienke A, Silber RE, Treede H. Positive Impact of Retrograde Autologous Priming in Adult Patients Undergoing Cardiac Surgery: A Randomized Clinical Trial. *J Cardiothorac Surg.* 2018 May 21;13(1):50. DOI: 10.1186/s13019-018-0739-0.

Hofmann B, Gmelin MJ, Metz D, Raspé C, Wienke A, Treede H, Simm A., Cardiac surgery score (CASUS) improves outcome prediction in patients treated with extracorporeal life support (ECLS). *Perfusion.* 2018 Jan;33(1):36-43. DOI: 10.1177/0267659117723456.

Single nucleotide polymorphisms in long noncoding RNA, ANRIL, are not associated with severe periodontitis but with adverse cardiovascular events among patients with cardiovascular disease. Schulz S, Seitter L, Werdan K, Hofmann B, Schaller HG, Schlitt A, Reichert S. *J Periodontal Res.* 2018 Oct;53(5):714-720. DOI: 10.1111/jre.12555.

Navarrete Santos A, Jacobs K, Simm A, Glaubitz N, Horstkorte R, Hofmann B. Dicarbonyls induce senescence of human vascular endothelial cells. *Mech Ageing Dev.* 2017 Aug 3; 166:24-32. DOI: 10.1016/j.mad.2017.07.009. Epub 2017 Aug 3. PubMed PMID: 28780382.

Novel insights in the dysfunction of human blood-brain barrier after glycation. Hussain M, Bork K, Gnanapragassam VS, Bennmann D, Jacobs K, Navarrete-Santos A, Hofmann B, Simm A, Danker K, Horstkorte R. *Mech Ageing Dev.* 2016 Apr;155:48-54. DOI: 10.1016/j.mad.2016.03.004.

Hofmann B, Jacobs K, Navarrete Santos A, Wienke A, Silber RE, Simm A. Relationship between cardiac tissue glycation and skin autofluorescence in coronary artery disease patients. *Diabetes Metab.* 2015 Nov; 41(5):410-5. DOI: 10.1016/j.diabet.2014.12.001.

Advanced glycation endproducts interfere with adhesion and neurite outgrowth. Bennmann D, Horstkorte R, Hofmann B, Jacobs K, Navarrete-Santos A, Simm A, Bork K, Gnanapragassam VS. *PLoS One.* 2014 Nov 11;9(11):e112115. DOI: 10.1371/journal.pone.0112115.

Haucke E, Navarrete Santos A, Simm A, Silber RE, Hofmann B. Glycation of extracellular matrix proteins impairs migration of immune cells. *Wound Repair and Regeneration*, 2014. Mar-Apr; 22(2):239-45. DOI: 10.1111/wrr.12144.

Hofmann B, Yakobus Y, Indrasari M, Nass N, Navarrete Santos A, Kraus FB, Silber RE, Simm A. RAGE influences the development of aortic valve stenosis in mice on a high fat diet. *Exp Gerontol*, 2014 59:13-20. DOI: 10.1016/j.exger.2014.05.001.

Carotid to femoral pulse wave velocity reflects the extent of coronary artery disease. Hofmann B, Riemer M, Erbs C, Plehn A, Navarrete Santos A, Wienke A, Silber RE, Simm A. *J Clin Hypertens (Greenwich).* 2014 Sep;16(9):629-33. DOI: 10.1111/jch.12382.

Hofmann B, Adam AC, Jacobs K, Riemer M, Erbs C, Bushnaq H, Simm A, Silber RE, Santos AN. Advanced glycation end product associated skin autofluorescence: a mirror of vascular function? *Exp Gerontol*, 2013; 48(1):38-44. DOI: 10.1016/j.exger.2012.04.011.