

Curriculum Vitae

Dr. med. Gesine Marie Dittrich

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Education

- 2015 MD thesis in Experimental Cardiology, Hannover Medical School, Germany, Prof. Joerg Heineke
- 2014 State examination and medical license, Hannover Medical School, Germany
- 2008-2014 Study of human medicine, Hannover Medical School, Germany

Academic Career

- Since 2022 Postdoctoral scientist, Department of Pharmacology and Toxicology, University Medical Center Göttingen, Germany
- 2018-2022 Postdoctoral scientist, Department of Cardiovascular Physiology, Medical Faculty Mannheim of Heidelberg University, Germany
- 2015-2018 Clinical resident, Department of Cardiology and Angiology, Hannover Medical School, Germany

Certificates and Awards

- 2020 Qualification in medical didactics, competence center for medical didactics, Baden-Württemberg
- 2011-2014 Klaus Murmann Fellowship Programme of the Foundation of German Business (SDW)
- 2010 Landesstipendium Niedersachsen – Lower Saxony State Scholarship

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Memberships

- 2015 German Cardiac Society (DGK)
- 2018 German Center for Cardiovascular Research (DZHK)

Publications

Scharf G, Heineke J. Finding good biomarkers for sarcopenia. *J Cachexia Sarcopenia Muscle*. 2012 Sep;3(3):145-8.

Breitbart A*, **Scharf GM***, Duncker D*, Widera C, Gottlieb J, Vogel A, et al. Highly specific detection of myostatin prodomain by an immunoradiometric sandwich assay in serum of healthy individuals and patients. *PLoS One*. 2013 Nov 15;8(11):e80454. (*contributed equally)

Appari M, Breitbart A, Brandes F, Szaroszyk M, Froese N, Korf-Klingebiel M, Mohammadi MM, Grund A, **Scharf GM**, et al. C1q-TNF-Related Protein-9 Promotes Cardiac Hypertrophy and Failure. *Circ Res*. 2017 Jan 6;120(1):66-77.

Riehle C, **Scharf GM**, Sieweke JT, Zauner F, Flierl U, Treptau J, et al. Leukocytoclastic vasculitis associated with endocarditis in a patient with transposition of the great arteries and mechanical valve replacement. *Cardiovasc Pathol*. 2017 Mar - Apr;27:68-70.

Thackeray JT, Pietzsch S, Stapel B, Ricke-Hoch M, Lee CW, Bankstahl JP, Scherr M, Heineke J, **Scharf G** et al. Insulin supplementation attenuates cancer-induced cardiomyopathy and slows tumor disease progression. *JCI Insight*. 2017 May 18;2(10):10.1172/jci.insight.93098.

Froese N, Wang H, Zwadlo C, Wang Y, Grund A, Gigina A, Hofmann M, Kilian K, **Scharf G**, et al. Anti-androgenic therapy with finasteride improves cardiac function, attenuates remodeling and reverts pathologic gene-expression after myocardial infarction in mice. *J Mol Cell Cardiol*. 2018 Sep;122:114-124. doi: 10.1016/j.yjmcc.2018.08.011.

Scharf GM, Kilian K, Cordero J, Wang Y, Grund A, Hofmann M, et al. Inactivation of Sox9 in fibroblasts reduces cardiac fibrosis and inflammation. *JCI Insight*. 2019 Jul 16;5(15):e126721. doi: 10.1172/jci.insight.126721. PMID: 31310588; PMCID: PMC6693887.

Dittrich GM, Heineke J. TNF- α signaling: TACE inhibition to put out the burning heart. *PLoS Biol*. 2020 Dec 9;18(12):e3001037. doi: 10.1371/journal.pbio.3001037. PMID: 33296366; PMCID: PMC7752092.

Dittrich GM, Froese N, Wang X, Kroeger H, Wang H, Szaroszyk M, et al. Fibroblast GATA-4 and GATA-6 promote myocardial adaptation to pressure overload by enhancing cardiac angiogenesis. *Basic Res Cardiol*. 2021 Apr 19;116(1):26. doi: 10.1007/s00395-021-00862-y. PMID: 33876316; PMCID: PMC8055639.

Szaroszyk M, Kattih B, Martin-Garrido A, Trogisch FA, **Dittrich GM**, Grund A, et al. Skeletal muscle derived Musclin protects the heart during pathological overload. *Nat Commun*. 2022 Jan 10;13(1):149. doi: 10.1038/s41467-021-27634-5. PMID: 35013221.