

Curriculum Vitae



Personal Data

Name Jan Fiedler, PhD
Nationality German
Date of Birth 05/31/1981
Place of Birth Husum
Mobile Phone +49 179-9112707
E-Mail Jan.Fiedler@ymail.com

Education

10/2020 Opening of habilitation (*venia legendi*) at Hannover Medical School for the subject experimental pharmacology

08/2019 Member of centre board at the centre of pharmacology and toxicology Hannover Medical School

2015-2017 Start of TRAIN (Translational Alliance in Lower Saxony) Academy program for 2 years, translational research & medicine: From idea to the product

07/2014 Internship for CRISPR/Cas9 genome editing at Lawson Lab, University of Massachusetts Medical School (UMass), Worcester, USA

Since 01/2013 Group leader "Non-coding RNAs in the vasculature" at the Institute of Molecular and Translational Therapeutic Strategies, Prof. Dr. Dr. T. Thum, Hannover Medical School, Germany

08/2010 - 12/2012 Postdoctoral researcher at the Institute of Molecular and Translational Therapeutic Strategies, Prof. Dr. Dr. T. Thum, Hannover Medical School, Germany

07/2010 PhD thesis "Endothelial microRNA-24 contributes to capillary density in the infarcted heart" accomplished at the University of Wuerzburg (Dr. rer. nat.)

11/2009 - 07/2010 Research associate at the Institute of Molecular and Translational Therapeutic Strategies, Prof. Dr. Dr. T. Thum, Hannover Medical School, Germany

06/2006 - 10/2009 PhD student at the IZKF Junior Research Group 'Cardiac Wounding and Healing', Dr. T. Thum, Supervisors Prof. Dr. J. Bauersachs and Prof. Dr. T. Dandekar, University Hospital Wuerzburg, Germany

05/2006 Diploma in Biochemistry (Dipl.-Biochem. Univ.)

10/2001 - 05/2006 Studies of Biochemistry at the University of Bayreuth, Germany
Diploma thesis "Role of Mdm36 for mitochondrial morphogenesis in yeast" at the Chair of Cell Biology, University of Bayreuth, Germany, Supervisor Prof. Dr. B. Westermann

Languages

English (fluently), French (basic knowledge), German (native)

Software expertise

Microsoft Office (Word, Excel, PowerPoint, Access), Adobe (Photoshop, Illustrator), Statistics (GraphPad Prism), Image J

Extra qualifications

- GCP course at Hannover Medical School (06/2016)
- Leadership course performed at Hannover Medical School (04/2012 – 11/2012)
- Gene safety officer education at Hannover Medical School (04/2010)
- Lecturer at Hannover Medical School starting 2011 (Biochemistry, Biomedicine, Hannover Biomedical Research School)
- Lecturer at Imperial College London

Methods

Molecular Biology	DNA/RNA preparation, PCR, Real-time PCR, Cloning, Western Blot, Gene array profiling, Chromatin Immunoprecipitation, RNA Immunoprecipitation, Reporter gene assays, Immunostaining, generation of viral particles, CRISPR/Cas9 genome editing
Cell Biology	Fluorescence Microscopy, siRNA/miRNA transfection, Functional analysis of primary cells (apoptosis, proliferation, migration, angiogenic capacity), miRNA screening (high throughput applying Agilent Bravo system), FACS-based assays, Reprogramming of somatic cells
Biochemistry	Protein purification, ELISA, Immunoprecipitation
Cell Culture	Primary cell culture of endothelial cells, fibroblasts, cardiomyocytes, aortic smooth muscle cells and isolation and cultivation of different human progenitor cells, fractionation of cardiac cell types, preparation of transgenic cell lines

Awards

03/2016	Publication prize of the Working Group on Chronic Heart Failure, German Society of Cardiology, Mannheim, Germany: "MicroRNA-24 regulates vascularity after myocardial infarction"
03/2016	Keystone Symposia scholarship to attend Keystone conference in Copper Mountain, USA
09/2014	European Society of Cardiology (ESC) travel stipend to attend ESC Congress in Barcelona, Spain
04/2012	Franz-Maximilian Groedel Prize of the German Society of Cardiology, Mannheim, Germany: "MicroRNA-24 regulates vascularity after myocardial infarction"

Funding

- 2013 German Heart Failure Foundation (Deutsche Herzstiftung): “Towards clinical applications of microRNA-based treatment of cardiac remodelling“, 60.000 €
- 2012 German Society of Cardiology research stipend: “Prevention of ischemic/reperfusion injury by miRNA-24 inhibition: Towards new mechanisms and clinical applications“, 50.000 €

Hanover, January 5th, 2021

List of publications

First authorships

1. Hobuss L, Foinquinos A, Jung M, Kenneweg F, Xiao K, Wang Y, Zimmer K, Remke J, Just A, Nowak J, Schmidt A, Pich A, Mazlan S, Reamon-Buettner SM, Ramos GC, Frantz S, Viereck J, Loyer X, Boulanger C, Wollert KC, **Fiedler J***, Thum T*. Pleiotropic cardiac functions controlled by ischemia-induced lncRNA H19. *J Mol Cell Cardiol.* 2020; 146: 43-59. * both senior authors contributed equally
2. Meinecke A, Mitzka S, Just A, Cushman S, Stojanovic SD, Xiao K, Mooren FC, **Fiedler J***, Thum T*. Cardiac endurance training alters plasma profiles of circular RNA MBOAT2. *Am J Physiol Heart Circ Physiol.* 2020; 319: H13-H21. * both senior authors contributed equally
3. Fuchs M, Kreutzer FP, Kapsner LA, Mitzka S, Just A, Perbellini F, Terracciano CM, Xiao K, Geffers R, Bogdan C, Prokosch HU, **Fiedler J***, Thum T*, Kunz M*. Integrative Bioinformatic Analyses of Global Transcriptome Data Decipher Novel Molecular Insights into Cardiac Anti-Fibrotic Therapies. *Int J Mol Sci.* 2020; 21: 10.3390/ijms21134727. * senior authors contributed equally
4. Stojanovic SD*, Fuchs M*, **Fiedler J***, Xiao K, Meinecke A, Just A, Pich A, Thum T, Kunz M. Comprehensive Bioinformatics Identifies Key microRNA Players in ATG7-Deficient Lung Fibroblasts. *Int J Mol Sci.* 2020; 21: 10.3390/ijms21114126. * first authors contributed equally
5. Stojanovic SD, Fuchs M, Kunz M, Xiao K, Just A, Pich A, Bauersachs J, **Fiedler J***, Sedding D*, Thum T*. Inflammatory Drivers of Cardiovascular Disease: Molecular Characterization of Senescent Coronary Vascular Smooth Muscle Cells. *Front Physiol.* 2020; 11: 520. * senior authors contributed equally
6. Sonnenschein K, Wilczek AL, de Gonzalo-Calvo D, Pfanne A, Derda AA, Zwadlo C, Bavendiek U, Bauersachs J, **Fiedler J***, Thum T*. Serum circular RNAs act as blood-based biomarkers for hypertrophic obstructive cardiomyopathy. *Sci Rep.* 2019; 9: 20350-019-56617-2. * both senior authors contributed equally
7. Kenneweg F, Bang C, Xiao K, Boulanger CM, Loyer X, Mazlan S, Schroen B, Hermans-Beijnsberger S, Foinquinos A, Hirt MN, Eschenhagen T, Funcke S, Stojanovic S, Genschel C, Schimmel K, Just A, Pfanne A, Scherf K, Dehmel S, Raemon-Buettner SM, **Fiedler J***, Thum T*. Long Noncoding RNA-Enriched Vesicles Secreted by Hypoxic Cardiomyocytes Drive Cardiac Fibrosis. *Mol Ther Nucleic Acids.* 2019; 18: 363-374. * both senior authors contributed equally
8. **Fiedler J***, Park DH*, Hobuss L*, Anaraki PK, Pfanne A, Just A, Mitzka S, Dumler I, Weidemann F, Hilfiker A, Thum T. Identification of miR-143 as a Major Contributor for Human Stenotic Aortic Valve Disease. *J Cardiovasc Transl Res.* 2019. * authors contributed equally
9. Hartmann D *, **Fiedler J***, Sonnenschein K, Just A, Pfanne A, Zimmer K, Remke J, Foinquinos A, Butzlaff M, Schimmel K, Maegdefessel L, Hilfiker-Kleiner D, Lachmann N, Schober A, Froese N, Heineke J, Bauersachs J, Batkai S, Thum T. MicroRNA-based therapy of GATA2-deficient disease. ***Circulation accepted, IF = 17.2***; * both authors contributed equally
10. **Fiedler J***, Gronniger E*, Pfanne A, Bronneke S, Schmidt K, Falk CS, Wenck H, Terstegen L, Thum T, Winnefeld M. Identification of miR-126 as a new regulator of skin aging. ***Exp Dermatol.* 2016, IF = 2.7**; * both authors contributed equally
11. **Fiedler J**, Breckwoldt K, Remmele CW, Hartmann D, Dittrich M, Pfanne A, Just A, Xiao K, Kunz M, Muller T, Hansen A, Geffers R, Dandekar T, Eschenhagen T, Thum T. Development of Long Noncoding RNA-Based Strategies to Modulate Tissue Vascularization. ***J Am Coll Cardiol.* 2015, IF = 17.7**; 66: 2005-2015.
12. **Fiedler J**, Stöhr A, Gupta SK, Hartmann D, Holzmann A, Just A, Hansen A, Hilfiker-Kleiner D, Eschenhagen T and Thum T. Functional microRNA library screening identifies the hypoxaMiR miR-24 as a potent regulator of smooth muscle cell proliferation and vascularisation. ***Antioxid Redox Signal* 2013, IF = 7.1**
13. Pfaff N*, **Fiedler J***, Holzmann A, Schambach A, Moritz T, Cantz T, Thum T. miRNA screening reveals a new miRNA family stimulating iPS cell generation via regulation of Meox2. ***EMBO Rep.* 2011, IF = 7.3**; * both authors contributed equally
14. **Fiedler J**, Jazbutyte V, Kirchmaier BC, Gupta SK, Lorenzen J, Hartmann D, Galuppo P, Kneitz S, Pena JT, Sohn-Lee C, Loyer X, Soutschek J, Brand T, Tuschl T, Heineke J, Martin U, Schulte-Merker S, Ertl G, Engelhardt S, Bauersachs J, Thum T. MicroRNA-24 regulates vascularity after myocardial infarction. ***Circulation.* 2011, IF = 14.7**; 124: 720-730.

Co-authorships

1. Foinquinos A, Batkai S, Genschel C, Viereck J, Rump S, Gyongyosi M, Traxler D, Riesenhuber M, Spannauer A, Lukovic D, Weber N, Zlabinger K, Hasimbegovic E, Winkler J, Fiedler J, Dangwal S, Fischer M, de la Roche J, Wojciechowski D, Kraft T, Garamvolgyi R, Neitzel S, Chatterjee S, Yin X, Bar C, Mayr M, Xiao K, Thum T. Preclinical development of a miR-132 inhibitor for heart failure treatment. *Nat Commun.* 2020; 11: 633-020-14349-2.
2. Schimmel K, Jung M, Foinquinos A, San Jose G, Beaumont J, Bock K, Grote-Levi L, Xiao K, Bar C, Pfanne A, Just A, Zimmer K, Ngoy S, Lopez B, Ravassa S, Samolovac S, Janssen-Peters H, Remke J, Scherf K, Dangwal S, Piccoli MT, Kleemiss F, Kreutzer FP, Kenneweg F, Leonardy J, Hobuss L, Santer L, Do QT, Geffers R, Braesen JH, Schmitz J, Brandenberger C, Muller DN, Wilck N, Kaefer V, Bahre H, Batkai S, Fiedler J, Alexander KM, Wertheim BM, Fisch S, Liao R, Diez J, Gonzalez A, Thum T. Natural Compound Library Screening Identifies New Molecules for the Treatment of Cardiac Fibrosis and Diastolic Dysfunction. *Circulation.* 2020; .
3. Jansing JC, Fiedler J, Pich A, Viereck J, Thum T, Muhlfeld C, Brandenberger C. miR-21-KO Alleviates Alveolar Structural Remodeling and Inflammatory Signaling in Acute Lung Injury. *Int J Mol Sci.* 2020; 21: 10.3390/ijms21030822.
4. Burek M, Konig A, Lang M, Fiedler J, Oerter S, Roewer N, Bohnert M, Thal SC, Blecharz-Lang KG, Woitzik J, Thum T, Forster CY. Hypoxia-Induced MicroRNA-212/132 Alter Blood-Brain Barrier Integrity Through Inhibition of Tight Junction-Associated Proteins in Human and Mouse Brain Microvascular Endothelial Cells. *Transl Stroke Res.* 2019; .
5. Gorinski N, Bijata M, Prasad S, Wirth A, Abdel Galil D, Zeug A, Bazovkina D, Kondaurova E, Kulikova E, Ilchibaeva T, Zareba-Kozioł M, Papaleo F, Scheggia D, Kochlamazashvili G, Dityatev A, Smyth I, Krzystyniak A, Włodarczyk J, Richter DW, Strelakova T, Sigrist S, Bang C, Hobuss L, Fiedler J, Thum T, Naumenko VS, Pandey G, Ponimaskin E. Attenuated palmitoylation of serotonin receptor 5-HT1A affects receptor function and contributes to depression-like behaviors. *Nat Commun.* 2019; 10: 3924-019-11876-5.
6. Sonnenschein K, Fiedler J, Pfanne A, Just A, Mitzka S, Geffers RR, Pich A, Bauersachs J, Thum T. Therapeutic modulation of RNA-binding protein Rbm38 facilitates re-endothelialization after arterial injury. *Cardiovasc Res.* 2019; .
7. Bhayadia R, Krowiorz K, Haetscher N, Jammal R, Emmrich S, Obulkasim A, Fiedler J, Schwarzer A, Rouhi A, Heuser M, Wingert S, Bothur S, Dohner K, Matzig T, Ng M, Reinhardt D, Dohner H, Zwaan CM, van den Heuvel Eibrink M, Heckl D, Fornerod M, Thum T, Humphries RK, Rieger MA, Kuchenbauer F, Klusmann JH. Endogenous Tumor Suppressor microRNA-193b: Therapeutic and Prognostic Value in Acute Myeloid Leukemia. *J Clin Oncol.* 2018; 36: 1007-1016.
8. Gupta SK, Garg A, Bar C, Chatterjee S, Foinquinos A, Milting H, Streckfuss-Bomeke K, Fiedler J, Thum T. Quaking Inhibits Doxorubicin-Mediated Cardiotoxicity Through Regulation of Cardiac Circular RNA Expression. *Circ Res.* 2018; 122: 246-254.
9. Muller-Deile J, Schroder P, Beverly-Staggs L, Hiss R, Fiedler J, Nystrom J, Thum T, Haller H, Schiffer M. Overexpression of preeclampsia induced microRNA-26a-5p leads to proteinuria in zebrafish. *Sci Rep.* 2018; 8: 3621-018-22070-w.
10. Dubois-Deruy E, Cuvellez M, Fiedler J, Charrier H, Mulder P, Hebban E, Pfanne A, Beseme O, Chwastyniak M, Amouyel P, Richard V, Bauters C, Thum T, Pinet F. MicroRNAs regulating superoxide dismutase 2 are new circulating biomarkers of heart failure. *Sci Rep.* 2017; 7: 14747-017-15011-6.
11. Ishikawa D, Diekmann U, Fiedler J, Just A, Thum T, Lenzen S, Naujok O. miRNome Profiling of Purified Endoderm and Mesoderm Differentiated from hESCs Reveals Functions of miR-483-3p and miR-1263 for Cell-Fate Decisions. *Stem Cell Reports.* 2017; 9: 1588-1603.
12. Muller-Deile J, Dannenberg J, Schroder P, Lin MH, Miner JH, Chen R, Brasen JH, Thum T, Nystrom J, Staggs LB, Haller H, Fiedler J, Lorenzen JM, Schiffer M. Podocytes regulate the glomerular basement membrane protein nephrin by means of miR-378a-3p in glomerular diseases. *Kidney Int.* 2017; .
13. Pfaff N, Liebhaber S, Mobus S, Beh-Pajooh A, Fiedler J, Pfanne A, Schambach A, Thum T, Cantz T, Moritz T. Inhibition of miRNA-212/132 improves the reprogramming of fibroblasts into induced pluripotent stem cells by de-repressing important epigenetic remodelling factors. *Stem Cell Res.* 2017; 20: 70-75.
14. Weber N, Schwanke K, Gretten S, Wendland M, Iorga B, Fischer M, Geers-Knorr C, Hegemann J, Wrede C, Fiedler J, Kempf H, Franke A, Piep B, Pfanne A, Thum T, Martin U,

- Brenner B, Zweigerdt R, Kraft T. Stiff matrix induces switch to pure beta-cardiac myosin heavy chain expression in human ESC-derived cardiomyocytes. *Basic Res Cardiol.* 2016; 111: 68.
15. Gupta SK, Itagaki R, Zheng X, Batkai S, Thum S, Ahmad F, Van Aelst LN, Sharma A, Piccoli MT, Weinberger F, Fiedler J, Heuser M, Heymans S, Falk CS, Forster R, Schrepfer S, Thum T. miR-21 promotes fibrosis in an acute cardiac allograft transplantation model. *Cardiovasc Res.* 2016; 110: 215-226.
 16. Hirt MN, Werner T, Indenbirken D, Alawi M, Demin P, Kunze AC, Stenzig J, Starbatty J, Hansen A, Fiedler J, Thum T, Eschenhagen T. Deciphering the microRNA signature of pathological cardiac hypertrophy by engineered heart tissue- and sequencing-technology. *J Mol Cell Cardiol.* 2015; 81: 1-9.
 17. Lorenzen JM, Schauerte C, Hubner A, Kolling M, Martino F, Scherf K, Batkai S, Zimmer K, Foinquinos A, Kaucsar T, Fiedler J, Kumarswamy R, Bang C, Hartmann D, Gupta SK, Kielstein J, Jungmann A, Katus HA, Weidemann F, Muller OJ, Haller H, Thum T. Osteopontin is indispensable for AP1-mediated angiotensin II-related miR-21 transcription during cardiac fibrosis. *Eur Heart J.* 2015; 36: 2184-2196.
 18. Dangwal S, Stratmann B, Bang C, Lorenzen JM, Kumarswamy R, Fiedler J, Falk CS, Scholz CJ, Thum T, Tschoepe D. Impairment of Wound Healing in Patients With Type 2 Diabetes Mellitus Influences Circulating MicroRNA Patterns via Inflammatory Cytokines. *Arterioscler Thromb Vasc Biol.* 2015;
 19. Lorenzen JM, Schauerte C, Kielstein JT, Hubner A, Martino F, Fiedler J, Gupta SK, Faulhaber-Walter R, Kumarswamy R, Hafer C, Haller H, Fliser D, Thum T. Circulating long noncoding RNA TapSAKI is a predictor of mortality in critically ill patients with acute kidney injury. *Clin Chem.* 2015;61:191-201.
 20. Bang C, Batkai S, Dangwal S, Gupta SK, Foinquinos A, Holzmann A, Just A, Remke J, Zimmer K, Zeug A, Ponimaskin E, Schmiedl A, Yin X, Mayr M, Halder R, Fischer A, Engelhardt S, Wei Y, Schober A, Fiedler J, Thum T. Cardiac fibroblast-derived microRNA passenger strand-enriched exosomes mediate cardiomyocyte hypertrophy. *J Clin Invest.* 2014;124:2136-2146.
 21. Lorenzen JM, Kaucsar T, Schauerte C, Schmitt R, Rong S, Hubner A, Scherf K, Fiedler J, Martino F, Kumarswamy R, Kolling M, Sorensen I, Hinz H, Heineke J, van Rooij E, Haller H, Thum T. MicroRNA-24 antagonism prevents renal ischemia reperfusion injury. *J Am Soc Nephrol.* 2014;25:2717-2729.
 22. Volkmann I, Kumarswamy R, Pfaff N, Fiedler J, Dangwal S, Holzmann A, Batkai S, Geffers R, Lother A, Hein L and Thum T. MicroRNA-mediated epigenetic silencing of sirtuin1 contributes to impaired angiogenic responses. *Circ Res* 2013, 113: 997-1003.
 23. Lorenzen JM, Dietrich B, Fiedler J, Jazbutyte V, Fleissner F, Karpinski N, Weidemann F, Wanner C, Asan E, Caprio M, Ertl G, Bauersachs J, Thum T. Pathologic endothelial response and impaired function of circulating angiogenic cells in patients with fabry disease. *Basic Res Cardiol.* 2013 Jan;108(1):311-012-0311-3. Epub 2012 Nov 20.
 24. Diekmann U, Elsner M, Fiedler J, Thum T, Lenzen S, Naujok O. MicroRNA target sites as genetic tools to enhance promoter-reporter specificity for the purification of pancreatic progenitor cells from differentiated embryonic stem cells. *Stem Cell Rev.* 2012 Oct 31.
 25. Ucar A, Gupta SK, Fiedler J, Erikci E, Kardasinski M, Batkai S, Dangwal S, Kumarswamy R, Bang C, Holzmann A, Remke J, Caprio M, Jentsch C, Engelhardt S, Geisendorf S, Glas C, Hofmann TG, Nessling M, Richter K, Schiffer M, Carrier L, Napp LC, Bauersachs J, Chowdhury K, Thum T. The miRNA-212/132 family regulates both cardiac hypertrophy and cardiomyocyte autophagy. *Nat Commun.* 2012;3:1078.
 26. Jazbutyte V, Fiedler J, Kneitz S, Galuppo P, Just A, Holzmann A, Bauersachs J, Thum T. MicroRNA-22 increases senescence and activates cardiac fibroblasts in the aging heart. *Age (Dordr).* 2012 Apr 27.
 27. Lorenzen JM, Volkmann I, Fiedler J, Schmidt M, Scheffner I, Haller H, Gwinner W, Thum T. Urinary miR-210 as a Mediator of Acute T-Cell Mediated Rejection in Renal Allograft Recipients. *Am J Transplant.* 2011; 11: 2221-2227.
 28. Ucar A, Vafaizadeh V, Jarry H, Fiedler J, Klemmt PA, Thum T, Groner B, Chowdhury K. miR-212 and miR-132 are required for epithelial stromal interactions necessary for mouse mammary gland development. *Nat Genet.* 2010; 42: 1101-1108.
 29. Fleissner F, Jazbutyte V, Fiedler J, Gupta SK, Yin X, Xu Q, Galuppo P, Kneitz S, Mayr M, Ertl G, Bauersachs J, Thum T. Short communication: asymmetric dimethylarginine impairs angiogenic progenitor cell function in patients with coronary artery disease through a microRNA-21-dependent mechanism. *Circ Res.* 2010; 107: 138-143.

30. Thum T, Gross C, Fiedler J, Fischer T, Kissler S, Bussen M, Galuppo P, Just S, Rottbauer W, Frantz S, Castoldi M, Soutschek J, Koteliansky V, Rosenwald A, Basson MA, Licht JD, Pena JT, Rouhanifard SH, Muckenthaler MU, Tuschl T, Martin GR, Bauersachs J, Engelhardt S. MicroRNA-21 contributes to myocardial disease by stimulating MAP kinase signalling in fibroblasts. *Nature*. 2008; 456: 980-984.
31. Thum T, Galuppo P, Wolf C, Fiedler J, Kneitz S, van Laake LW, Doevendans PA, Mummery CL, Borlak J, Haverich A, Gross C, Engelhardt S, Ertl G, Bauersachs J. MicroRNAs in the human heart: a clue to fetal gene reprogramming in heart failure. *Circulation*. 2007; 116: 258-267.

Review articles and editorials

1. Stojanovic SD, Fiedler J, Bauersachs J, Thum T, Sedding DG. Senescence-induced inflammation: an important player and key therapeutic target in atherosclerosis. *Eur Heart J*. 2020; .
2. de Gonzalo-Calvo D, Veá A, Bar C, Fiedler J, Couch LS, Brotons C, Llorente-Cortes V, Thum T. Circulating non-coding RNAs in biomarker-guided cardiovascular therapy: a novel tool for personalized medicine? *Eur Heart J*. 2019; 40: 1643-1650.
3. Kreuzer FP, Fiedler J, Thum T. Non-coding RNAs: key players in cardiac disease. *J Physiol*. 2019; .
4. Fiedler J, Baker AH, Dimmeler S, Heymans S, Mayr M, Thum T. Non-coding RNAs in vascular disease - from basic science to clinical applications: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. *Cardiovasc Res*. 2018; 114: 1281-1286.
5. Fiedler J, Thum T. Vascular Smooth Muscle Cell Remodeling. *Circ Res*. 2018; 123: 1261-1263.
6. Fiedler J, Thum T. New Insights Into miR-17-92 Cluster Regulation and Angiogenesis. *Circ Res*. 2016; 118: 9-11.
7. Fiedler J, Batkai S, Thum T. MicroRNA-based therapy in cardiology. *Herz*. 2014;39:194-200.
8. Thum T, Fiedler J. LINCing MALAT1 and angiogenesis. *Circ Res*. 2014;114:1366-1368.
9. Fiedler J, Thum T. MicroRNAs in myocardial infarction. *Arterioscler Thromb Vasc Biol*. 2013 Feb;33(2):201-205.
10. Bang C, Fiedler J, Thum T. Cardiovascular importance of the microRNA-23/27/24 family. *Microcirculation*. 2012 Apr;19(3):208-214.
11. Fiedler J, Thum T. MicroRNAs Looping Around Angiogenesis. *Arterioscler Thromb Vasc Biol*. 2011; 31: 2367-2368.
12. Fiedler J, Gupta SK, Thum T. Identification of cardiovascular microRNA targetomes. *J Mol Cell Cardiol*. 2011; 51: 674-681.
13. Fiedler J, Gupta SK, Thum T. MicroRNA-Based Therapeutic Approaches in the Cardiovascular System. *Cardiovasc Ther*. 2010; (Epub)