Dr. Magdalena L. Bochenek

List of publications

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36 peer-reviewed publications, 2010 to 2026. Names in bold: own authorship. An asterisk marks shared first authorship.

2026

Visualization of new vessel formation during venous thrombus organization using genetic fate mapping **First author**
Bochenek ML, Noorali JD, Aderajew A, Moiko K, Zimmer S, Zifkow K, Wagner M, Lurz P, Hobohm L, Schäfer K · *Research and Practice in Thrombosis and Haemostasis* · 10.1016/j.rpth.2026.106842

Protocol for inducing deep vein thrombosis in C57BL/6J mice using the inferior vena cava stenosis model
Damara A, Canon S, **Bochenek ML**, Schäfer K, Shahneh F · *STAR Protocols* · 10.1016/j.xpro.2026.104665

Loss of erythrocyte arginase-1 impairs vasorelaxation due to endothelial GSNOR overexpression and denitrosylation of G protein subunits
Gogiraju R, Sun B, **Bochenek ML**, Wittig I, Rezende F, Lopez M, Wirth A, Zhao W, Böhm EW, Guliani P, Moiko K, Molitor M, Wenzel P, Freichel M, Lurz P, Brandes RP, Schäfer K · *Redox Biology* · 10.1016/j.redox.2026.104201

Chronic Erythrocyte NO Production Accelerates Atherosclerosis by Increasing SMC De Novo Lipogenesis
Sun B, Gogiraju R, Greulich F, Kumi F, Ghasemi I, **Bochenek ML**, Pagel S, van der Vorst EPC, Khuu MP, Moiko K, Renner L, Guliani P, Ruf W, Porubsky S, Reinhardt C, Fleming I, Bindila L, Lurz P, Schäfer K · *Circulation Research* · 10.1161/CIRCRESAHA.125.327866

Transmembrane Protein 100 Expression on Endothelial Cells Vascularizing Thrombi in Chronic Thromboembolic Pulmonary Hypertension Modulates TGFβ1-ALK1 Signaling During Angiogenesis **First author**
Bochenek ML, Ghasemi I, Wiedenroth CB, Bikou O, Karampinis I, Roessner ED, Hobohm L, Guth S, Lurz P, Konstantinides S, Schäfer K · *Pulmonary Circulation* · 10.1002/pul2.70253

2025

Side-by-Side Comparison of Culture Media Uncovers Phenotypic and Functional Differences in Primary Mouse Aortic Mural Cells
Ghasemi I, Gogiraju R, Khraisat S, Pagel S, Graf C, Brandt M, Madhusudhan T, Wenzel P, Luxán G, Lurz P, **Bochenek ML**, Schäfer K · *Cells* · 10.3390/cells14120927

2024

Myeloid cell-derived interleukin-6 induces vascular dysfunction and vascular and systemic inflammation
Knopp T, Jung R, Wild J, **Bochenek ML**, Efentakis P, Lehmann A, Bieler T, Garlapati V, Richter C, Molitor M, Perius K, Finger S, Lagrange J, Ghasemi I, Zifkos K, Kommoss KS, Masri J, Reißig S, Randriamboavonjy V, Wunderlich T, Hövelmeyer N, Weber ANR, Mufazalov IA, Bosmann M, Bechmann I, Fleming I, Oelze M, Daiber A, Münzel T, Schäfer K, Wenzel P, Waisman A, Karbach S · *European Heart Journal Open* · 10.1093/ehjopen/oeae046

Endothelial PTP1B Deletion Promotes VWF Exocytosis and Venous Thromboinflammation
Zifkos K, **Bochenek ML**, Gogiraju R, Robert S, Pedrosa D, Kiouptsi K, Moiko K, Wagner M, Mahfoud F, Poncelet P, Münzel T, Ruf W, Reinhardt C, Panicot-Dubois L, Dubois C, Schäfer K · *Circulation Research* · 10.1161/CIRCRESAHA.124.324214

2023

Endothelial overexpression of transforming growth factor beta-induced (BIGH3) impairs venous thrombus resolution: possible role in CTEPH **First author**
Bochenek ML, Saar K, Nazari-Jahantigh M, Gogiraju R, Wiedenroth CB, Münzel T, Mayer E, Fink L, Schober A, Hübner N, Guth S, Konstantinides S, Schäfer K · *JACC: Basic to Translational Science* · 10.1016/j.jacbts.2023.08.005

Deletion of endothelial leptin receptors in mice promotes diet-induced obesity
Gogiraju R, Witzler C, Shahneh F, Hubert A, Renner L, **Bochenek ML**, Zifkos K, Becker C, Thati M, Schäfer K · *Scientific Reports* · 10.1038/s41598-023-35281-7

Endothelial-dependent S-Sulfhydration of tissue factor pathway inhibitor regulates blood coagulation
Wittig J, Drekolia MK, Kyselova A, Delgado Lagos F, **Bochenek ML**, Hu J, Schäfer K, Fleming I, Bibli SI · *Redox Biology* · 10.1016/j.redox.2023.102694

2022

Arginase-1 deletion in erythrocytes promotes vascular calcification via enhanced GSNOR (S-Nitrosoglutathione Reductase) expression and NO signalling in smooth muscle cells
Gogiraju R, Renner L, **Bochenek ML**, Zifkos K, Molitor M, Danckwardt S, Wenzel P, Münzel T, Konstantinides S, Schäfer K · *Arteriosclerosis, Thrombosis, and Vascular Biology* · 10.1161/ATVBAHA.122.318338

EPCR-PAR1 biased signalling regulates perfusion recovery and neovascularization in peripheral ischemia First author
Bochenek ML, Gogiraju R, Großmann S, Krug J, Orth J, Reyda S, Georgiadis GS, Spronk H, Konstantinides S, Münzel T, Griffin JH, Wild PS, Espinola-Klein C, Ruf W, Schäfer K · *JCI Insight* · 10.1172/jci.insight.157701

Protein Tyrosine Phosphatase 1B deficiency in vascular smooth muscle cells promotes perivascular fibrosis following arterial injury
Gogiraju R*, Gachkar S*, Velmeden D*, **Bochenek ML**, Konstantinos Z, Hubert A, Münzel T, Offermanns S, Schäfer K · *Thrombosis and Haemostasis* · 10.1055/s-0042-1755329

2021

Tubulin-folding cofactor E deficiency promotes vascular dysfunction by increased endoplasmic reticulum stress
Efentakis P, Molitor M, Kossmann S, **Bochenek ML**, Wild J, Lagrange J, Finger S, Jung R, Karbach S, Schäfer K, Schulz A, Wild P, Münzel T, Wenzel P · *European Heart Journal* · 10.1093/eurheartj/ehab222

Role of angiopoietin-2 in venous thrombus resolution and chronic thromboembolic disease
Hobohm L, Kölmel S, Niemann C, Kümpers P, Krieg VJ, **Bochenek ML**, Lukasz AH, Reiss Y, Plate KH, Liebetrau C, Wiedenroth CB, Guth S, Münzel T, Hasenfuß G, Wenzel P, Mayer E, Konstantinides SV, Schäfer K, Lankeit M · *European Respiratory Journal* · 10.1183/13993003.04196-2020

Brain-derived neurotrophic factor expression and signaling in different perivascular adipose tissue depots of patients with coronary artery disease
Zierold S, Buschmann K, Gachkar S, **Bochenek ML**, Velmeden D, Hobohm L, Vahl CF, Schäfer K · *Journal of the American Heart Association* · 10.1161/JAHA.120.018322

2020

Age-dependent and –independent effects of perivascular adipose tissue and its paracrine activities during neointima formation
Schütz E*, Gogiraju R*, Pavlaki M, Drosos I, Georgiadis GS, Argyriou C, Ben Hallou AR, Konstantinou F, Mikroulis D, Schüler R, **Bochenek ML**, Gachkar S, Buschmann K, Lankeit M, Karbach SH, Münzel T, Tziakis D, Konstantinides S, Schäfer K · *International Journal of Medical Sciences* · 10.7150/ijms.37675

2019

Activated endothelial TGFβ1 signaling promotes venous thrombus non-resolution in mice via endothelin-1: potential role for chronic thromboembolic pulmonary hypertension First author
Bochenek ML, Leidinger C, Rosinus NS, Gogiraju R, Guth S, Hobohm L, Jurk K, Mayer E, Münzel T, Lankeit M, Bosmann M, Konstantinides S, Schäfer K · *Circulation Research* · 10.1161/CIRCRESAHA.119.315259

Increased lymphangiogenesis and lymphangiogenic growth factor expression in perivascular adipose tissue of patients with coronary artery disease
Drosos I, Pavlaki M, Ortega Carrillo MDP, Kourkouli A, Buschmann K, Konstantinou F, Gogiraju R, **Bochenek ML**, Chalikias G, Tortopidis C, Vahl CF, Mikroulis D, Tziakas D, Münzel T, Konstantinides S, Schäfer K · *Journal of Clinical Medicine* · 10.3390/jcm8071000

Potential involvement of Osteopontin in inflammatory and fibrotic processes in Pulmonary Embolism and Chronic Thromboembolic Pulmonary Hypertension
Kölmel S, Hobohm L, Käberich A, Krieg VJ, **Bochenek ML**, Wenzel P, Wiedenroth CB, Liebetrau C, Hasenfuß G, Mayer E, Konstantinides SV, Schäfer K, Guth S, Lankeit M · *Thrombosis and Haemostasis* · 10.1055/s-0039-1692174

Angiogenic Endothelial Cell Signaling in Cardiac Hypertrophy and Heart Failure
Gogiraju R, **Bochenek ML**, Schäfer K · *Frontiers in Cardiovascular Medicine* · 10.3389/fcvm.2019.00020

Role of Endothelial Cells in Acute and Chronic Thrombosis First author
Bochenek ML, Schäfer K · *Hämostaseologie* · 10.1055/s-0038-1675614

2018

Pulmonary arterial hypertension and endothelial dysfunction is linked to NADPH Oxidase-derived superoxide formation in venous thrombosis and pulmonary embolism in mice
Brandt M, Giokoglu E, Garlapati V, **Bochenek ML**, Molitor M, Hobohm L, Schönfelder T, Münzel T, Kossmann S, Karbach SH, Schäfer K, Wenzel P · *Oxidative Medicine and Cellular Longevity* · 10.1155/2018/1860513

Endothelial tumor suppressor p53 is essential for venous thrombus formation in aged mice First author
Bochenek ML*, Bauer T*, Gogiraju R, Nadir Y, Mann A, Schönfelder T, Hünig L, Brenner B, Münzel T, Wenzel P, Konstantinides S, Schäfer K · *Blood Advances* · 10.1182/bloodadvances.2017014050

Endothelial Protein Tyrosine Phosphatase-1B knockdown enhances neointima formation in mice with diet-induced obesity
Jäger M*, Hubert A*, Gogiraju R, **Bochenek ML**, Münzel T, Schäfer K · *Antioxidants & Redox Signaling* · 10.1089/ars.2017.7169

2017

Selective Deletion of Leptin Signaling in Endothelial Cells Enhances Neointima Formation and Phenocopies the Vascular Effects of Diet-Induced Obesity in Mice
Hubert A, **Bochenek ML**, Schütz E, Gogiraju R, Münzel T, Schäfer K · *Arteriosclerosis, Thrombosis, and Vascular Biology* · 10.1161/ATVBAHA.117.309798

Inorganic polyphosphate and Interferon lambda1/IL-29 are novel partners in the regulation of neutrophil-driven thromboinflammation
Chrysanthopoulou A, Kambas K, Stakos D, Mitroulis I, Mitsios A, Vidali V, Angelidou I, **Bochenek ML**, Arelaki S, Arampatzioglou A, Skendros P, Konstantinides S, Andreakos E, Schäfer K, Ritis K · *The Journal of Pathology* · 10.1002/path.4935

Absence of Transforming Growth Factor beta 1 in Murine Platelets Reduces Neointima Formation without Affecting Thrombosis
Schütz E, **Bochenek ML**, Riehl DR, Bosmann M, Münzel T, Konstantinides S, Schäfer K · *Thrombosis and Haemostasis* · 10.1160/TH17-02-0112

From thrombosis to fibrosis in Chronic Thromboembolic Pulmonary Hypertension First author
Bochenek ML, Rosinus NS, Lankeit M, Hobohm L, Bremmer F, Schuetz E, Klok FA, Horke S, Wiedenroth CB, Münzel T, Lang IM, Mayer E, Konstantinides S, Schäfer K · *Thrombosis and Haemostasis* · 10.1160/TH16-10-0790

2016

Endothelial cell senescence and thrombosis: ageing clots First author
Bochenek ML, Schütz E, Schäfer K · *Thrombosis Research* · 10.1016/j.thromres.2016.09.019

Endothelial deletion of protein tyrosine phosphatase-1B protect against pressure overload-induced heart failure in mice
Gogiraju R, Schroeter MR, **Bochenek ML**, Hubert A, Münzel T, Hasenfuss G, Schäfer K · *Cardiovascular Research* · 10.1093/cvr/cvw101

C3G/Rapgef1 is required in multipolar neurons for the transition to a bipolar morphology during cortical development
Shah B, Lutter D, **Bochenek ML**, Kato K, Tsytsyura Y, Glyvuk N, Sakakibara A, Klingauf J, Adams RH, Püschel AW · *PLOS ONE* · 10.1371/journal.pone.0154174

2015

Endothelial p53 deletion improves angiogenesis and prevents cardiac fibrosis and heart failure induced by pressure overload in mice
Gogiraju R, Xu X, **Bochenek ML**, Steinbrecher JH, Lehnart SE, Wenzel P, Kessel M, Zeisberg EM, Dobbelstein M, Schäfer K · *Journal of the American Heart Association* · 10.1161/JAHA.115.001770

2010

Ephrin-B2 controls VEGF-induced angiogenesis and lymphangiogenesis
Wang Y*, Nakayama M*, Pitulescu M*, Schmidt TS*, **Bochenek ML**, Sakahibara A, Adams S, Davy A, Deutsch U, Luethi U, Barberis A, Benjamin LE, Makinen T, Nobes CD, Adams RH · *Nature*

Ephrin-B2 regulates endothelial cell morphology and motility independently of EPH-receptor binding First author
Bochenek ML, Dickinson S, Astin JW, Adams RH, Nobes CD · *Journal of Cell Science*

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