

## Original publications

\* equal contribution

1. **Suvorava T\***, Brack F\*, Kaczur J, Petzsch P, Köhrer K, Quast C, Gerdes N, Voigt K, Krüger M, Fischer JW, Brückner A, Fleischmann BK, Wenzel D, Zimmermann LA, Sengle G, Flögel U, Grandoch M. (2023) Deficiency in hyaluronan synthase 3 attenuates ruptures in a murine model of abdominal aortic aneurysms by reduced aortic monocyte infiltration. *BioRxiv*, preprint; <https://doi.org/10.1101/2022.12.01.518480>.
2. Cortese-Krott MM, **Suvorava T**, Leo F, Heuser SK, LoBue A, Li J, Becher S, Schneckmann R, Srivastava T, Erkens R, Wolff G, Schmitz JP, Grandoch M, Lundberg JO, Pernow J, Isakson BE, Weitzberg E, Kelm M. (2022) Red blood cell eNOS is cardioprotective in acute myocardial infarction. *Redox Biol*; 54:102370.
3. Heuser SK, LoBue A, Li J, Zhuge Z, Leo F, **Suvorava T**, Olsson A, Schneckmann R, Guimaraes Braga DD, Srivastava T, Montero L, Schmitz OJ, Schmitz JP, Grandoch M, Weitzberg E, Lundberg JO, Pernow J, Kelm M, Carlström M, Cortese-Krott MM. Downregulation of eNOS and preserved endothelial function in endothelial-specific arginase 1-deficient mice *Nitric Oxide*;125-126:69-77. doi: 10.1016/j.niox.2022.06.004
4. Leo F\*, **Suvorava T\***, Heuser SK, Li J, LoBue A, Barbarino F, Piragine E, Schneckmann R, Hutzler B, Good ME, Fernandez BO, Vornholz L, Rogers S, Doctor A, Grandoch M, Stegbauer J, Weitzberg E, Feelisch M, Lundberg JO, Isakson BE, Kelm M, Cortese-Krott MM. Red blood cell and endothelial eNOS independently regulate circulating nitric oxide metabolites and blood pressure. *Circulation*;144(11):870-889. doi: 10.1161/CIRCULATIONAHA.120.049606.
5. Schneckmann R, **Suvorava T**, Hundhausen C, Schuler D, Lorenz C, Freudenberger T, Kelm M, Fischer JW, Flögel U, Grandoch M. Endothelial Hyaluronan Synthase 3 Augments Postischemic Arteriogenesis Through CD44/eNOS Signaling. *Arterioscler Thromb Vasc Biol*; 41(10):2551-2562.
6. Wischmann P\*, Kuhn V\*, **Suvorava T**, Muessig J, Gödecke A, Fischer JW, , Isakson BE, Habekorn S, Flögel U, Schrader J, Jung C, Cortese-Krott MM, Heusch G, Kelm M. (2020) Anaemia is associated with severe RBC dysfunction and a reduced circulating NO pool: vascular and cardiac eNOS are crucial for the adaptation to anemia. *Basic Res Cardiol*; 12;115(4):43.
7. De Luca R, Mazur K, Kernder A, **Suvorava T**, Kojda G, Haas HL, Sergeeva OA (2018) Mechanisms of N-oleoyldopamine activation of central histaminergic neurons. *Neuropharmacology*; 143:327-338.
8. Erkens R\*, **Suvorava T\***, Sutton TR, Fernandez BO, Mikus-Lelinska M, Barbarino F, Flögel U, Kelm M, Feelisch M, Cortese-Krott MM. (2018) Nrf2 deficiency unmasks the significance of nitric oxide synthase activity for cardioprotection. *Oxid Med Cell Longev* 30; 2018:8309698.
9. Diederich L, **Suvorava T**, Sansone R, Keller IV TCS, Barbarino F, Sutton TR, Kramer C, Lückstädt W, Isakson B, Gohlke H, Feelisch M, Kelm M, Cortese-Krott MM. (2018) On the effects of reactive oxygen species and nitric oxide on red blood cell deformability. *Frontiers Physiol*; 9:332.
10. Bisha M\*, Dao VT\*, Gholamreza-Fahimi E, Vogt M, van Zandvoort M, Weber S, Bas M, Khosravani F, Kojda G\*, **Suvorava T\*** (2018) The role of bradykinin receptor type 2 for spontaneous extravasation in mice skin: Implications for non-allergic angio-oedema. *Br J Pharmacol*; doi: 10.1111/bph.14166.
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15. Kiene LS, Homann S, **Suvorava T**, Rabausch B, Müller J, Kojda G, Kretschmer I, Twarock S, Dai G, Deenen R, Hartwig S, Lehr S, Köhrer K, Savani RC, Grandoch M, Fischer JW. (2016) Deletion of Hyaluronan Synthase 3 Inhibits Neointimal Hyperplasia in Mice *Arterioscler Thromb Vasc Biol*; 2016 Feb;36(2):e9-16.
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18. **Suvorava T**, Nagy N, Pick S, Lieven O, Ruether U, Dao VT, Fischer JW, Weber M, Kojda G. (2015) Impact of eNOS-dependent Oxidative Stress on Endothelial Function and Neointima Formation. *Antioxidants & Redox Signaling*; 23(9):711-23.
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#### Reviews and Editorials

1. **Suvorova T\***, Metry S\* Pick S, Kojda G. (2022) Alterations in endothelial nitric oxide synthase activity and their relevance to blood pressure *Biochemical Pharmacology*; 205:115256. doi: 10.1016/j.bcp.2022.115256.
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3. Kaesemeyer W, **Suvorova T.** (2021) Treating Acute Decompensated Heart Failure in Patients with COVID-19 Using Intravenous Nitroglycerin in 5% Glutathione Am *J Cardiovasc Drugs*; 21(6):589-593.
4. **Suvorova T**, Kaesemeyer W. (2021) Targeting the Vascular Endothelium in the Treatment of COVID-19. *J Cardiovasc Pharmacol*; 77(1):1-3.
5. **Suvorova T**, Cortese-Krott MM. (2018) Exercise-Induced Cardioprotection via eNOS: a Putative Role of Red Blood Cell Signaling. *Curr Med Chem.* 2018;25(34):4457-4474.
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11. **Suvorova T**, Kojda G. (2007) Prevention of transient endothelial dysfunction in acute exercise: a friendly fire? *Thrombosis Haemostasis*; 97(3):331-3.
12. Bas M, Adams V, **Suvorova T**, Niehues T, Hoffmann TK, Kojda G. (2007) Nonallergic angioedema: role of bradykinin. *Allergy*; 62(8):842-56

#### Other Publications/ Book Chapters

1. **Suvorova T.** (2012) Wird die Bedeutung von oxidativem Stress in der Gefäßwand überschätzt? Springer Verlag, *BIOspektrum.* 4: S. 434.
2. **Suvorova T**, Oppermann M, Balz V, Dao VT, Kojda G. (2009) „Antioxidative effect of pentaerithryltetranitrate *in vivo*“, *Pentaerithryltetranitrat*, S. 17-22. Steinkopff Verlag, Darmstadt.
3. **Suvorova T**, Kojda G. (2005) Antioxidative Effekte von körperlichem Training. *Pharmazeutische Zeitung*; 42, 16-22 (in German).