

Publications Stefan Stojković

1. Proteomic Atlas of Atherosclerosis: The Contribution of Proteoglycans to Sex Differences, Plaque Phenotypes, and Outcomes - Theofilatos K*, **Stojkovic S**, Hasman M, van der Laan SW, Baig F, Barallobre-Barreiro J, Schmidt LE, Yin S, Yin X, Burnap S, Singh B, Popham J, Harkot O, Kampf S, Nackenhorst MC, Strassl A, Loewe C, Demyanets S, Neumayer C, Bilban M, Hengstenberg C, Huber K, Pasterkamp G, Wojta J, Mayr M.
Circ Res. 2023 Sep 15;133(7):542-558. doi: 10.1161/CIRCRESAHA.123.322590. Epub 2023 Aug 30.
2. Soluble ST2 in Patients with Carotid Artery Stenosis-Association with Plaque Morphology and Long-Term Outcome – **Stojkovic S**, Kampf S, Harkot O, Nackenhorst M, Brekalo M, Huber K, Hengstenberg C, Neumayer C, Wojta J, Demyanets S.
Int J Mol Sci. 2023 May 19;24(10):9007. doi: 10.3390/ijms24109007.
3. Letter by Gutmann et al Regarding Article, "Circulating MicroRNA-122-5p Is Associated With a Lack of Improvement in Left Ventricular Function After Transcatheter Aortic Valve Replacement and Regulates Viability of Cardiomyocytes Through Extracellular Vesicles" - Gutmann C, **Stojkovic S**, Mayr M.
Circulation. 2023 Jan 24;147(4): e68-e69. doi: 10.1161/CIRCULATIONAHA.122.062334. Epub 2023 Jan 23.
4. Elevated EMMPRIN Serum Levels Indicate Plaque Vulnerability in Patients With Asymptomatic High Grade Carotid Stenosis – Kampf S, Micko A, **Stojkovic S**, Nackenhorst MC, Demyanets S, Eilenberg WE, Krenn C, Wojta J, Neumayer C.
Eur J Vasc Endovasc Surg. 2023 Apr;65(4):474-483. doi: 10.1016/j.ejvs.2022.12.010. Epub 2022 Dec 15.
5. The pattern of epistaxis recurrence in patients taking prophylactic acetylsalicylic acid (ASA) from a 10 year cohort - Stanković P, Hoch S, Rudhart S, **Stojković S**, Wilhelm T.
Eur Arch Otorhinolaryngol. 2023 Apr;280(4):1723-1730. doi: 10.1007/s00405-022-07666-3. Epub 2022 Oct 1.
6. Soluble ST2 as a Potential Biomarker for Abdominal Aortic Aneurysms-A Single-Center Retrospective Cohort Study - Klopff J, Demyanets S, Brekalo M, Eilenberg W, Wojta J, Neumayer C, Brostjan C, **Stojkovic S**.
Int J Mol Sci. 2022 Aug 24;23(17):9598. doi: 10.3390/ijms23179598.
7. RANTES and CD40L under Conditions of Long-Term Physical Exercise: A Potential Link to Adaptive Immunity - Lenz M, Schönbauer R, **Stojkovic S**, Lee J, Gatterer C, Lichtenauer M, Paar V, Emich M, Fritzer-Szekeres M, Strametz-Juranek J, Graf S, Sponder M.
Int J Environ Res Public Health. 2022 Jul 16;19(14):8658. doi: 10.3390/ijerph19148658.
8. Soluble ST2 and All-Cause Mortality in Patients with Chronic Obstructive Pulmonary Disease-A 10-Year Cohort Study - Urban MH*, **Stojkovic S***, Demyanets S, Hengstenberg C, Valipour A, Wojta J, Burghuber OC.

- J Clin Med.** 2021 Dec 23;11(1):56. doi: 10.3390/jcm11010056.
9. The Paradigm Change of IL-33 in Vascular Biology - Demyanets S, **Stojkovic S**, Huber K, Wojta J.
Int J Mol Sci. 2021 Dec 10;22(24):13288. doi: 10.3390/ijms222413288.
 10. Long-term physical activity modulates adiponin and ANGPTL4 serum levels, a potential link to exercise-induced metabolic changes – Lenz M , Schönbauer R, **Stojkovic S**, Lichtenauer M, Paar V, Gatterer C, Schukro C, Emich M, Fritzer-Szekeres M, Strametz-Juranek J, Sponder M.
Panminerva Med. 2021 Jul 26. doi: 10.23736/S0031-0808.21.04382-2. Online ahead of print.
 11. Pharmacological inhibition of fatty acid oxidation reduces atherosclerosis progression by suppression of macrophage NLRP3 inflammasome activation - Hohensinner P, Lenz M, Haider, Mayer J, Richter M, Kaun C, Goederle L, Brekalo M, Salzmann M, Sharma S, Fischer M, **Stojkovic S**, Ramsdayer D, Hengstenberg C, Podesser B, Huber K, Binder C, Wojta J, Speidl W.
Biochem Pharmacol. 2021 Aug;190:114634. doi: 10.1016/j.bcp.2021.114634. Epub 2021 May 28.
 12. Cardiac biomarkers for risk stratification of arrhythmic death in patients with heart failure and reduced ejection fraction - Burger AL, **Stojkovic S**, Diedrich A, Wojta J, Demyanets S, Pezawas T.
Br J Biomed Sci. 2021 Jan 27. doi: 10.1080/09674845.2021.1883257. Online ahead of print.
 13. Circulating microRNAs and monocyte-platelet aggregate formation in acute coronary syndrome – **Stojkovic S**, Wadowski P, Haider P, Weikert C, Pultar J, Lee S, Eichelberger B, Hengstenberg C, Wojta J, Panzer S, Demyanets S, Gremmel T.
Thromb Haemost. 2021 Jan 14. doi: 10.1055/s-0040-1722226. Online ahead of print.
 14. Association of soluble suppression of tumorigenesis 2 (sST2) with platelet activation, monocyte tissue factor and ischemic outcomes following angioplasty and stenting – **Stojkovic S**, Demyanets S, Kopp CW, Hengstenberg C, Wojta J, Eichelberger B, Panzer S, Gremmel T.
Front. Cardiovasc. Med. 2020| doi: 10.3389/fcvm.2020.605669.
 15. Immature cell fractions after cessation of chronic P2Y12-inhibition in patients with coronary artery diseases – Jäger B, Vargas KG, Haller PM, **Stojkovic S**, Kaufmann CC, Freyhofner M, Quehenberger P, Wagner O, Wojta J, Huber K.
Platelets. 2020 Aug 7:1-6. doi: 10.1080/09537104.2020.1803252. Online ahead of print.
 16. A Controlled Trial of Rivaroxaban after Transcatheter Aortic-Valve Replacement – **Stojkovic S**, Sulzgruber P, Niessner A.
N Engl J Med. 2020 Jul 9;383(2):e8. doi: 10.1056/NEJMc2017351.
 17. Elevated plasma levels of asymmetric dimethylarginine and the risk for arrhythmic death in ischemic and non-ischemic, dilated cardiomyopathy - A prospective, controlled

long-term study – Burger AL, **Stojkovic S**, Diedrich A, Demyanets S, Wojta J, Pezawas T.

Clin Biochem. 2020 Sep;83:37-42. doi: 10.1016/j.clinbiochem.2020.05.016. Epub 2020 Jun 4.

18. Surrogate Markers of Neutrophil Extracellular Trap Formation are Associated with Ischemic Outcomes and Platelet Activation after Peripheral Angioplasty and Stenting – Demyanets S, **Stojkovic S**, Mauracher LM, Kopp CW, Wojta J, Thaler J, Panzer S, Gremmel T.

J Clin Med. 2020 Jan 22;9(2). pii: E304. doi: 10.3390/jcm9020304.

19. Alternative activation of human macrophages enhances tissue factor expression and production of extracellular vesicles - Hohensinner PJ, Mayer J, Kichbacher J, Kral-Pointner J, Thaler B, Kaun C, Hell L, Haider P, Mussbacher M, Schmid JA, **Stojkovic S**, Demyanets S, Fischer MB, Huber K, Wöran K, Hengstenberg C, Speidl WS, Oehler R, Pabinger I, Wojta J.

Haematologica. 2020 Jan 23. pii: haematol.2019.220210. doi: 10.3324/haematol.2019.220210.

20. Liver-specific microRNA-122 as prognostic biomarker in patients with chronic systolic heart failure – **Stojkovic S**^{*}, Koller L^{*}, Sulzgruber P, Hülsman M, Huber K, Mayr M, Hengstenberg C, Wojta J, Niessner A.

Int J Cardiol. 2019 Nov 7. pii: S0167-5273(19)33664-2. doi: 10.1016/j.ijcard.2019.11.090.

21. MicroRNAs as Regulators and Biomarkers of Platelet Function and Activity in Coronary Artery Disease - **Stojkovic S**, Nossent AY, Haller P, Jäger B, Vargas KG, Wojta J, Huber K.

Thromb Haemost. 2019 Oct;19(10):1563-1572. doi: 10.1055/s-0039-1693702.

22. The association of P2Y12 inhibitors with pro-coagulatory extracellular vesicles and microRNAs in stable coronary artery disease - Haller PM, **Stojkovic S**, Piackova E, Andric T, Wisgrill L, Spittler A, Wojta J, Huber K, Jäger B.

Platelets. 2019 Aug 7:1-8. doi: 10.1080/09537104.2019.1648780.

23. Differential expression of Plg-RKT and its effects on migration of proinflammatory monocyte and macrophage subsets - Thaler B, Baik N, Hohensinner PJ, Baumgartner J, Panzenböck A, **Stojkovic S**, Demyanets S, Huk I, Rega-Kaun G, Kaun C, Prager M, Fischer MB, Huber K, Speidl WS, Parmer RJ, Miles LA, Wojta J.

Blood. 2019 Aug 8;134(6):561-567. doi: 10.1182/blood.2018850420. Epub 2019 Jun 20.

24. Course of platelet miRNAs after cessation of P2Y12 antagonists - Jäger B, **Stojkovic S**, Haller PM, Piackova E, Kahl BS, Andric T, Vargas KG, Wojta J, Huber K.

Eur J Clin Invest. 2019 Aug;49(8):e13149. doi: 10.1111/eci.13149. Epub 2019 Jun 23.

25. Neutrophil Gelatinase Associated Lipocalin (NGAL) for Identification of Unstable Plaques in Patients with Asymptomatic Carotid Stenosis - Eilenberg W, **Stojkovic S**,

Kaider A, Piechota-Polanczyk A, Nanobachvili J, Domenig CM, Wojta J, Huk I, Demyanets S, Neumayer C.
Eur J Vasc Endovasc Surg. 2019 Jun;57(6):768-777. doi: 10.1016/j.ejvs.2018.12.029. Epub 2019 Jun 1.

26. The Relevance of Vascular Endothelial Growth Factor, Hypoxia Inducible Factor-1 Alpha, and Clusterin in Carotid Plaque Instability - Basic J, **Stojkovic S**, Assadian A, Rauscher S, Duschek N, Kaun C, Wojta J, Falkensammer J.
J Stroke Cerebrovasc Dis. 2019 Jun;28(6):1540-1545. doi: 10.1016/j.jstrokecerebrovasdis.2019.03.009. Epub 2019 Apr 2.
27. The impact of age on cardiac function and extracellular matrix component expression in adverse post-infarction remodeling in mice - Nagel F, Santer D, **Stojkovic S**, Kaun C, Schaefer AK, Krššák M, Abraham D, Bencsik P, Ferdinandy P, Kenyeres E, Szabados T, Wojta J, Trescher K, Kiss A, Podesser BK.
Exp Gerontol. 2019 May;119:193-202. doi: 10.1016/j.exger.2019.02.008. Epub 2019 Feb 11.
28. Defensive Implantable Cardioverter-Defibrillator Programming Is Safe and Reduces Inappropriate Therapy - Comparison of 3 Programming Strategies in 1,471 Patients - Burger AL, **Stojkovic S**, Schmidinger H, Ristl R, Pezawas T.
Circulation Journal. 2018 Nov 24;82(12):2976-2982. doi: 10.1253/circj.CJ-18-0611. Epub 2018 Sep 29.
29. Cardioprotective cytokine interleukin-33 is up-regulated by statins in human cardiac tissue – Pentz R, Kaun C, **Stojkovic S**, Krychtiuk KA, Zuckermann A, Huber K, Wojta W, Demyanets S.
Journal of Cellular and Molecular Medicine. 2018 Dec;22(12):6122-6133. doi: 10.1111/jcmm.13891. Epub 2018 Sep 14.
30. Circulating micro RNAs identify patients at increased risk of in-stent restenosis after peripheral angioplasty with stent implantation – **Stojkovic S**, Jurisic M, Kopp CW, Koppensteiner R, Huber K, Wojta J, Gremmel T.
Atherosclerosis, 2018 Feb;269:197-203. doi: 10.1016/j.atherosclerosis.2018.01.020. Epub 2018 Jan 16.
31. GDF-15 versus soluble ST2 for risk stratification of arrhythmic death in non-ischemic, dilated cardiomyopathy – **Stojkovic S**, Kaider A, Koller L, Maurer G, Wojta J, Schmidinger H, Diedrich A, Demyanets S, Pezawas T.
Journal of Cellular and Molecular Medicine, 2018 Apr;22(4):2422-2429. doi: 10.1111/jcmm.13540. Epub 2018 Feb 4.
32. Predictive value of low interleukin-33 in critically ill patients – Krychtiuk K* **Stojkovic S***, Lenz M, Brekalo M, Huber K, Wojta J, Heinz G, Demyanets S, Speidl WS.
Cytokine, 2018 Mar;103:109-113. doi: 10.1016/j.cyto.2017.09.017. Epub 2017 Sep 30.
33. PAI-1 (Plasminogen Activator Inhibitor-1) Expression Renders Alternatively Activated Human Macrophages Proteolytically Quiescent – Hohensinner PJ, Baumgartner J, Kral-Pointner JB, Uhrin P, Ebenbauer B, Thaler B, Doberer K, **Stojkovic S**, Demyanets S, Fischer MB, Huber K, Schabbauer G, Speidl WS, Wojta J.

Arteriosclerosis Thrombosis Vascular Biology. 2017 Aug 17.

34. Effects of interleukin-33 on tissue factor expression in human monocyte subsets – **Stojkovic S**, Thulin A, Hell L, Rauscher S, Baumgartner J, Gröger M, Ay C, Wojta J, Siegbahn A, Åberg M.
Thrombosis and Haemostasis. 2017 Jun 28;117(7):1379-1390. doi: 10.1160/TH1610-0784. Epub 2017 May 11.
35. Neutrophil gelatinase associated lipocalin (NGAL) is elevated in type 2 diabetics with carotid artery stenosis and reduced under metformin treatment – Eilenberg W, **Stojkovic S**, Piechota-Polanczyk A, Kaider A, Kozakowski N, Weninger WJ, Nanobachvili J, Wojta J, Huk I, Demyanets S, Neumayer C.
Cardiovascular Diabetology. 2017 Aug 8;16(1):98. doi: 10.1186/s12933-017-05796.
36. NGAL and MMP-9/NGAL levels are decreased under statin treatment in patients with carotid atherosclerosis – Eilenberg W*, **Stojkovic S***, Kaider A, Domenig C, Klinger M, Neumayer C, Huk I, Wojta J, Demyanets S.
Clinical Chemistry and Laboratory Medicine. 2017 Jun 26. doi: 10.1515/cclm2017-0156
37. Endothelial Cell-derived Extracellular Vesicles Size-dependently Exert Procoagulatory Activity Detected by Thromboelastometry – Holnthoner W, Bonstingl C, Hromada C, Muehleder S, Zipperle J; **Stojkovic S**, Redl H, Wojta J, Schöchl H, Grillari J, Weilner S, Schlimp CJ.
Scientific Reports. 2017 Jun 16;7(1):3707. doi: 10.1038/s41598-017-03159-0.
38. Soluble urokinase-type plasminogen activator receptor improves risk prediction in patients with chronic heart failure – Koller L, **Stojkovic S**, Richter B, Sulzgruber P, Potalidis C, Liebhart F, Mörtl D, Berger R, Goliash G, Wojta J, Hülsmann M, Niessner A.
JACC Heart Failure. 2017 Apr;5(4):268-277. doi: 10.1016/j.jchf.2016.12.008.
39. Moderate hyperoxia induces inflammation, apoptosis and necrosis in human umbilical vein endothelial cells – Hafner C, Wu J, Soto-Gonzalez L, Kaun C, **Stojkovic S**, Wojta J, Tretter EV, Markstaller K, Klein KU.
Eur J Anaesthesiol. 2017 Mar;34(3):141-149. doi: 10.1097/EJA.0000000000000593.
40. Anti-thrombotic and pro-fibrinolytic effects of levosimendan in human endothelial cells in vitro – Krychtiuk K, Kaun C, **Stojkovic S**, Kastl S, Zuckermann A, Eppel W, Maurer G, Huber K, Wojta J, Speidl W.
Vascular pharmacology. 2017 Mar;90:44-50. doi: 10.1016/j.vph.2017.02.003.
41. Tissue factor is induced by interleukin-33 in human endothelial cells: a new link between coagulation and inflammation – **Stojkovic S**, Kaun C, Basilio J, Rauscher S, Hell L, Krychtiuk KA, Bonstingl C, de Martin R, Gröger M, Ay C, Holnthoner W, Eppel W, Neumayer C, Huk I, Huber K, Demyanets S, Wojta J.
Scientific reports 2016 May 4;6:25171. doi: 10.1038/srep25171.

42. Interleukin-33 stimulates GM-CSF and M-CSF production by human endothelial cells –Montanari E, **Stojkovic S**, Kaun C, Lemberger CE, de Martin R, Rauscher S, Gröger M, Maurer G, Neumayer C, Huk I, Huber K, Demyanets S, Wojta J. **Thrombosis and Haemostasis**. 2016 May 12;116(2). [Epub ahead of print].
43. Neutrophil Gelatinase-Associated Lipocalin (NGAL) is Associated with Symptomatic Carotid Atherosclerosis and Drives Pro-inflammatory State In Vitro – Eilenberg W, **Stojkovic S**, Piechota-Polanczyk A, Kaun C, Rauscher S, Gröger M, Klinger M, Wojta J, Neumayer C, Huk I, Demyanets S. **Eur J Vasc Endovasc Surg**. 2016 May;51(5):623-31. doi: 10.1016/j.ejvs.2016.01.009.
44. MicroRNAs as circulating biomarkers in acute coronary syndromes: A review. – Ahlin F, Arfvidsson J, Vargas KG, **Stojkovic S**, Huber K, Wojta J. **Vascular Pharmacology**. 2016 Jun;81:15-21. doi: 10.1016/j.vph.2016.04.001. Epub 2016 Apr 13. Review.
45. T-wave variability for the prediction of fast ventricular arrhythmias – prospective, observer-blind study - **Stojkovic S**, Ristl R, Moser FT, Wolzt M, Wojta J, Schmidinger H, Pezawas T. **Circulation Journal**. 2015;79(2):318-24. doi: 10.1253/circj.CJ-14-1028.
46. Selection for atrial fibrillation ablation: Importance of diastolic function grading – Pezawas T, Binder T, Ristl R, Schneider B, **Stojkovic S**, Schukro C, Schmidinger H. **Journal of Cardiology**. 2015 Jun;65(6):479-86. doi: 10.1016/j.jjcc.2014.07.018.
47. CardioPulse: the 'Young Thrombosis Researchers Group' of the ESC Working Group on Thrombosis – Grove EL, Lankeit M, Hess K, Freynhofer M, **Stojkovic S**, Varenhorst C, Thomas M. **European Heart Journal**. 2015 Mar 21;36(12):703-4.
48. Interleukin-33 induces urokinase in human endothelial cells - possible impact on angiogenesis – **Stojkovic S**, Kaun C, Heinz M, Krychtiuk KA, Rauscher S, Lemberger CE, de Martin R, Gröger M, Petzelbauer P, Huk I, Huber K, Wojta J, Demyanets S. **Journal of Thrombosis and Haemostasis**. 2014 Jun;12(6):948-57. doi: 10.1111/jth.12581.



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