

# Curriculum Vitae

## Persönliche Daten:

**Name:** Priv. Doz. Dr. med. univ. Max Lenz, PhD, FESC

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**Geburtsdatum:** 17.08.1990



## Ausbildung & Anstellungen:

Seit November **2024**:  
Facharzt für Innere Medizin und Kardiologie: **Department of Internal Medicine II, Division of Cardiology, Medical University of Vienna**. 1090 Wien.

Mai **2024**:  
Venia Docendi: **Inflammation and metabolic changes in cardiovascular disease, Medical University of Vienna**. 1090 Wien.

Mai **2018** - November **2024**:  
Assistenzarzt in Facharztausbildung: **Department of Internal Medicine II, Division of Cardiology, Medical University of Vienna**. 1090 Wien.

April **2017** - April **2018**:  
Studienkoordinator bei: **Department of Internal Medicine II, Division of Cardiology, Medical University of Vienna**. 1090 Wien.

Februar **2016** - Februar **2023**:  
Studium: **Medizinische Universität Wien, PhD (Doctor of Philosophy) N094, vascular biology**, 1090 Wien.

Seit Oktober **2013**:  
Wissenschaftliche Mitarbeit bei: **Department of Internal Medicine II, Division of Cardiology, Medical University of Vienna** Arbeitsgruppe: Prof. Johann Wojta, 1090 Wien.

Oktober **2011** - September **2015**:  
Demonstrator für Organmorphologie bei: **Zentrum für Anatomie und Zellbiologie, Währinger-Straße 13** Prof. Hannes Traxler, 1090 Wien.

Oktober **2008** - Februar **2016**:  
Studium: **Medizinische Universität Wien, Diplomstudium Humanmedizin (N202)**, 1090 Wien.

September **2008** - Juni **2009**:  
Ableistung des Zivildienstes bei: **„ÖHTB“ Österreichisches Hilfswerk für Taubblinde und hochgradig Hör- und Sehbehinderte**, 1120 Wien.

September **2005** - Juli **2008**:  
Gymnasium: **Neulandschule Laaerberg**, 1100 Wien Matura in: Deutsch, Englisch, Mathematik und Biologie mit **ausgezeichnetem Erfolg** bestanden.

## Weitere Qualifikationen & Kompetenzen

|                                             |                                                                                                                                           |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Jänner <b>2026</b> :                        | <b>Young National Representative (YNR)</b> für Österreich - Association for Acute Cardiovascular Care (ACVC) der ESC.                     |
| Dezember <b>2025</b> :                      | Verleihung des „ <b>Fellow of the ESC (FESC)</b> “ durch die <b>European Society of Cardiology (ESC)</b> .                                |
| Mai <b>2017</b> - Juni <b>2019</b> :        | Stellvertretender Vorsitzender der Studienvertretung <b>postgraduale Studien</b> der <b>MUW</b> .                                         |
| Oktober <b>2011</b> - Oktober <b>2014</b> : | Ausbildung zum <b>Rettungssanitäter</b> und ehrenamtliche Tätigkeit bei: „ <b>Johanniter-Unfall-Hilfe Wien</b> “, 1210 Wien               |
| <b>Sprachkenntnisse:</b>                    | <b>Deutsch</b> (Muttersprache), <b>Englisch</b> (C1), <b>Französisch</b> (A1-A2).                                                         |
| <b>Computerkenntnisse:</b>                  | <b>Windows &amp; Macintosh</b> , MS Office, <b>SPSS</b> , ImageJ, Adobe Photoshop, <b>Dokumentationssysteme</b> des AKH (AKIM, ICIP etc.) |
| <b>Persönliche Interessen:</b>              | Wing Chun Kung Fu, Pen and Paper, Computer.                                                                                               |

## Awards & Grants:

- ) ÖKG Grant **2017**: “The role of mitochondrial DNA in ischemia-reperfusion injury following acute myocardial infarction” (19.600€).
- ) Best Abstract Prize, ÖSKIM **2023**: “Early NSE measurements at the ICU bear prognostic value in patients with and without CPR” (1000€).
- ) Medizinisch-Wissenschaftlichen Fonds des Bürgermeisters der Bundeshauptstadt Wien, **2024**: „Inflammatory and chemotactic markers of risk stratification in fulminant myocarditis“ (50.000€).
- ) CVC Collaborative Grant **2025**: “The role of monocytes, neutrophils and platelets in fulminant myocarditis” (5.000€).
- ) Österreichischer Herzfonds **2026**: “Defining Inflammatory Fingerprints in Fulminant Myocarditis and Its Overlap With HLH-Like Features” (14.540€).
- ) Erwin Schrödinger Stipendium (FWF) **2026**: “Defining Inflammatory Fingerprints in Fulminant Myocarditis and Its Overlap With HLH-Like Features” (49.9000€).

## Priv. Doz. Dr. med. univ. Max Lenz, PhD, FESC

Publication list (23.03.2026)

- 1) Gatterer C., Allmer D., Beitzke D., Graf S., Hohensinner P., Ponleitner M., Steinacher E., Schmidt A., Sunder-Plassmann G., Rommer P., **Lenz M.** Longitudinal Adipokine and Lipid Profiles in Fabry Disease. *J. Clin. Med.* 2026, 15, 2390. <https://doi.org/10.3390/jcm15062390>.
- 2) Steinacher E, Bernhard J, Zilberszac R, Hengstenberg C, Koller L, Speidl WS, Krychtiuk KA, **Lenz M.** Adiponectin, Leptin, and Lipid Profiles Characterise a Metabolic High-Risk Phenotype in ICU Patients. *Shock*. 2026 Feb 5. doi: 10.1097/SHK.0000000000002814. Epub ahead of print. PMID: 41735188.
- 3) Steinacher E, Hammer A, Baumer U, Hofer F, Kazem N, **Lenz M**, Lang I, Hengstenberg C, Sulzgruber P, Koller L, Niessner A. Routinely Available Inflammatory Biomarkers Are Not Associated With Target Lesion Revascularization After Coronary Intervention. *JACC Adv.* 2025 Jan;4(1):101452. doi: 10.1016/j.jacadv.2024.101452.
- 4) **Lenz M**, Zilberszac R, Hengstenberg C, Wojta J, Richter B, Heinz G, Krychtiuk KA, Speidl WS. Nonlinear Associations of Uric Acid and Mitochondrial DNA with Mortality in Critically Ill Patients. *J Clin Med.* 2025 Jun 23;14(13):4455. doi: 10.3390/jcm14134455.
- 5) Steinacher E, Hammer A, Baumer U, Hofer F, Kazem N, **Lenz M**, Leutner M, Lang I, Hengstenberg C, Sulzgruber P, Koller L, Niessner A, Kammerlander A. Beyond obesity: metabolic status as a key driver for cardiovascular outcomes in patients undergoing invasive coronary angiography. *Eur Heart J Qual Care Clin Outcomes.* 2025 Sep 12;11(6):825-834. doi: 10.1093/ehjqcco/qcaf023.
- 6) Kerneis M, Ammirati E, Delmas C, Heggermont W, Heymans S, **Lenz M**, Madonna R, Morosin M, Schaubroeck H, Sionis A, Tsaban G, Uzokov J, Vardanyan K, Vandenbriele C, Roubille F. Clinical management of acute myocarditis in daily practice: an expert practical view. *Eur Heart J Acute Cardiovasc Care.* 2025 Aug 6;14(7):420-431. doi: 10.1093/ehjacc/zuaf057.
- 7) **Lenz M**, Haider P, Steinacher E, Gatterer C, Zilberszac R, Demyanets S, Hengstenberg C, Wojta J, Heinz G, Speidl WS, Krychtiuk KA. Markers of Hemophagocytic Lymphohistiocytosis Are Associated with Mortality in Critically Ill Patients. *J Clin Med.* 2025 Mar 14;14(6):1970. doi: 10.3390/jcm14061970.
- 8) Markart S, Hermann A, Chiari F, Heinz G, Speidl WS, **Lenz M**, Hengstenberg C, Schellongowski P, Staudinger T, Zilberszac R. Urinary Output as a Predictor of Mortality in Cardiogenic Shock: An Explorative Retrospective Analysis. *J Clin Med.* **2024 Dec** 17;13(24):7706. doi: 10.3390/jcm13247706.
- 9) Gatterer C, Beitzke D, Sunder-Plassmann G, Friedl M, Hohensinner P, Mann C, Ponleitner M, Graf S, **Lenz M.** NT-proBNP Reflects Left Ventricular Hypertrophy Rather than Left Ventricular Dilatation or Systolic Dysfunction in Patients with Fabry Disease. *J Clin Med.* **2024 Oct** 7;13(19):5953.
- 10) **Lenz M**, Krychtiuk KA, Zilberszac R, Speidl WS, Heinz G. Repeated occurrence of severe hypotension associated with azithromycin infusion in a patient with fulminant myocarditis: a case report. *Eur Heart J Case Rep.* **2024 Apr** 18;8(4):ytae208.
- 11) **Lenz M**, Krychtiuk KA, Zilberszac R, Heinz G, Riebandt J, Speidl WS. Mechanical Circulatory Support Systems in Fulminant Myocarditis: Recent Advances and Outlook. *journal of clinical medicine.* **20 February 2024.** Online ahead of print.

- 12) **Lenz M, Steinacher E**, Krychtiuk KA, Hengstenberg C, Huber K, Wojta J, Heinz G, Niessner A, Speidl WS, Koller L. Decreased percentages of plasmacytoid dendritic cells predict survival in critically ill patients. *J Leukoc Biol*. **2024 Jan 5**. Online ahead of print.
- 13) Stähli BE, Varbella F, Linke A, Schwarz B, Felix SB, Seiffert M, Kesterke R, Nordbeck P, Witzenbichler B, Lang IM, Kessler M, Valina C, Dibra A, Rohla M, Moccetti M, Vercellino M, Gaede L, Bott-Flügel L, Jakob P, Stehli J, Candreva A, Templin C, Schindler M, Wischnewsky M, Zanda G, Quadri G, Mangner N, Toma A, Magnani G, Clemmensen P, Lüscher TF, Münzel T, Schulze PC, Laugwitz KL, Rottbauer W, Huber K, Neumann FJ, Schneider S, Weidinger F, Achenbach S, Richardt G, Kastrati A, Ford I, Maier W, Ruschitzka F; **MULTISTARS AMI Investigators**. Timing of Complete Revascularization with Multivessel PCI for Myocardial Infarction. *N Engl J Med*. **2023 Oct 12**;389(15):13681379.
- 14) Schönbauer R, Hana F, Duca F, Koschutnik M, Donà C, Nitsche C, Sponder M, **Lenz M**, Lee J, Loewe C, Hengstenberg C, Mascherbauer J, Kammerlander A. Right Atrial Phasic Function in Heart Failure with Preserved Ejection Fraction: Cardiac Magnetic Resonance Feature Tracking and Outcomes. *J Clin Med*. **2023 Aug 9**;12(16):5179.
- 15) Gatterer C, Beitzke D, Graf S, **Lenz M**, Sunder-Plassmann G, Mann C, Ponleitner M, Manka R, Fritschi D, Kräyenbuehl PA, Kamm P, Dormond O, Barbey F, Monney P, Nowak A. Long-Term Monitoring of Cardiac Involvement under Migalastat Treatment Using Magnetic Resonance Tomography in Fabry Disease. *Life (Basel)*. **2023 May 19**;13(5):1213.
- 16) **Lenz M**, Kiss A, Haider P, Salzmann M, Brekalo M, Krychtiuk KA, Hamza O, Huber K, Hengstenberg C, Podesser BK, Wojta J, Hohensinner PJ, Speidl WS. Short-term tolllike receptor 9 inhibition leads to left ventricular wall thinning after myocardial infarction. *ESC Heart Fail*. **2023 Aug**;10(4):2375-2385.
- 17) Gatterer C, Wollenweber T, Pichler V, Vranka C, Sunder-Plassmann G, **Lenz M**, Hengstenberg C, Hacker M, Loewe C, Graf S, Beitzke D. Detection of sympathetic denervation defects in Fabry disease by hybrid [11C]meta-hydroxyephedrine positron emission tomography and cardiac magnetic resonance. *J Nucl Cardiol*. **2023 Feb 28**.
- 18) Salzmann M, Platzer H, Mussbacher M, Derler M, **Lenz M**, Haider P, Brekalo M, KralPointner JB, Kastl S, Speidl WS, Preissner KT, Schubert U, Bischoff M, Uhrin P, Wojta J, Hohensinner PJ. Staphylococcus aureus extracellular adherence protein (Eap) reduces immune cell phenotype in developing but not in established atherosclerotic lesions. *Biochim Biophys Acta Mol Basis Dis*. **2023 Mar**;1869(3):166616.
- 19) Ondracek AS, Aszlan A, Schmid M, **Lenz M**, Mangold A, Artner T, Emich M, FritzerSzekeres M, Strametz-Juranek J, Lang IM, Sponder M. Physical Exercise Promotes DNase Activity Enhancing the Capacity to Degrade Neutrophil Extracellular Traps. *Biomedicines*. **2022 Nov 8**;10(11):2849.
- 20) **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. RANTES and CD40L under Conditions of Long-Term Physical Exercise: A Potential Link to Adaptive Immunity. *Int J Environ Res Public Health*. **2022 Jul 16**;19(14):8658.
- 21) **Lenz M**, Salzmann M, Ciotu CI, Kaun C, Krychtiuk KA, Rehberger Likozar A, Sebestjen M, Goederle L, Rauscher S, Krivaja Z, Binder CJ, Huber K, Hengstenberg C, Podesser BK, Fischer MJM, Wojta J, Hohensinner PJ, Speidl WS. Pharmacologic modulation of intracellular Na<sup>+</sup> concentration with ranolazine impacts inflammatory response in humans and mice. *Proc Natl Acad Sci U S A*. **2022 Jul 19**;119(29).

- 22) **Lenz M**, Krychtiuk KA, Brekalo M, Draxler DF, Pavo N, Hengstenberg C, Huber K, Hülsmann M, Heinz G, Wojta J, Speidl WS. Soluble neprilysin and survival in critically ill patients. *ESC Heart Fail.* **2022 Apr**;9(2):1160-1166.
- 23) Maier N, Gatterer C, Haider P, Salzmann M, Kaun C, Speidl WS, Sunder-Plassmann G, Podesser BK, Wojta J, Graf S, **Lenz M**, Hohensinner PJ. MiRNA Let-7a and Let-7d Are Induced by Globotriaosylceramide via NF-κB Activation in Fabry Disease. *Genes (Basel).* **2021 Jul** 30;12(8):1184.
- 24) **Lenz M**, Schönbauer R, Stojkovic S, Lichtenauer M, Paar V, Gatterer C, Schukro C, Emich M, Fritzer- Szekeres M, Strametz-Juranek J, Sponder M. Long-term physical activity modulates adiponin and ANGPTL4 serum levels, a potential link to exercise-induced metabolic changes. *Panminerva Med.* **2021 Jul.**
- 25) **Lenz M**, Hohensinner PJ, Haider P, Mayer J, Richter M, Kaun C, Goederle L, Brekalo M, Salzmann M, Sharma S, Fischer MB, Stojkovic S, Ramsdayer D, Hengstenberg C, Podesser BK, Huber K, Binder CJ, Wojta J, Speidl WS. Pharmacological inhibition of fatty acid oxidation reduces atherosclerosis progression by suppression of macrophage NLRP3 inflammasome activation. *Biochem Pharmacol.* **2021 Aug**;190:114634.
- 26) Krychtiuk KA, **Lenz M**, Hohensinner P, Distelmaier K, Schrutka L, Kastl SP, Huber K, Dostal E, Oravec S, Hengstenberg C, Wojta J, Speidl WS. Circulating levels of proprotein convertase subtilisin/kexin type 9 (PCSK9) are associated with monocyte subsets in patients with stable coronary artery disease. *J Clin Lipidol.* **2021 May-Jun**;15(3):512521.
- 27) **Lenz M**, Kaun C, Krychtiuk KA, Haider P, Brekalo M, Maier N, Goederle L, Binder CJ, Huber K, Hengstenberg C, Wojta J, Hohensinner PJ, Speidl WS. Effects of Nicorandil on Inflammation, Apoptosis and Atherosclerotic Plaque Progression. *Biomedicines.* **2021 Jan** 27;9(2):120.
- 28) Krychtiuk KA, **Lenz M**, Richter B, Hohensinner PJ, Kastl SP, Mangold A, Huber K, Hengstenberg C, Wojta J, Heinz G, Speidl WS. Monocyte subsets predict mortality after cardiac arrest. *J Leukoc Biol.* **2021 Jun**;109(6):1139-1146
- 29) Grafeneder J, Krychtiuk KA, Buchtele N, Schoergenhofer C, Gelbenegger G, **Lenz M**, Wojta J, Heinz G, Huber K, Hengstenberg C, Jilma B, Speidl WS. The ISTH DIC score predicts outcome in non- septic patients admitted to a cardiovascular intensive care unit. *Eur J Intern Med.* **2020 Sep**;79:37- 42.
- 30) Krychtiuk KA, Richter B, **Lenz M**, Hohensinner PJ, Huber K, Hengstenberg C, Wojta J, Heinz G, Speidl WS. Epinephrine treatment but not time to ROSC is associated with intestinal injury in patients with cardiac arrest. *Resuscitation.* **2020 Oct**;155:32-38.
- 31) **Lenz M**, Draxler DF, Zhang C, Kassem M, Kastl SP, Niessner A, Huber K, Wojta J, Heinz G, Speidl WS, Krychtiuk KA. Toll-like receptor 2 and 9 expression on circulating neutrophils is associated with increased mortality in critically ill patients. *Shock.* **2020 Jul**;54(1):35-43.
- 32) Richter B, Uray T, Krychtiuk KA, Schriebl C, **Lenz M**, Nürnberger A, Kastl SP, Wojta J, Heinz G, Schwameis M, Speidl WS. Growth differentiation factor-15 predicts poor survival after cardiac arrest. *Resuscitation.* **2019 Oct**;143:22-28b.
- 33) Krychtiuk KA, Wurm R, Ruhittel S, **Lenz M**, Huber K, Wojta J, Heinz G, Hülsmann M, Speidl WS. Release of mitochondrial DNA is associated with mortality in severe acute heart failure. *Eur Heart J Acute Cardiovasc Care.* **2020 Aug**;9(5):419-428.

- 34) Pentz R, Kaun C, Thaler B, Stojkovic S, **Lenz M**, Krychtiuk KA, Zuckermann A, Huber K, Wojta J, Hohensinner PJ, Demyanets S. Cardioprotective cytokine interleukin-33 is upregulated by statins in human cardiac tissue. *J Cell Mol Med*. **2018 Dec**;22(12):6122-6133.
- 35) Kastl SP, Krychtiuk KA, **Lenz M**, Distelmaier K, Goliasch G, Huber K, Wojta J, Heinz G, Speidl WS. Intestinal Fatty Acid Binding Protein is Associated With Mortality in Patients With Acute Heart Failure or Cardiogenic Shock. *Shock*. **2019 Apr**;51(4):410-415.
- 36) Krychtiuk KA, Stojkovic S, **Lenz M**, Brekalo M, Huber K, Wojta J, Heinz G, Demyanets S, Speidl WS. Predictive value of low interleukin-33 in critically ill patients. *Cytokine*. **2018 Mar**;103:109-113.
- 37) **Lenz M**, Krychtiuk KA, Goliasch G, Distelmaier K, Wojta J, Heinz G, Speidl WS. N-terminal pro-brain natriuretic peptide and high-sensitivity troponin T exhibit additive prognostic value for the outcome of critically ill patients. *Eur Heart J Acute Cardiovasc Care*. **2020 Aug**;9(5):496-503.
- 38) Krychtiuk KA, Honeder MC, **Lenz M**, Maurer G, Wojta J, Heinz G, Huber K, Speidl WS. Copeptin Predicts Mortality in Critically Ill Patients. *PLoS One*. **2017 Jan 24**;12(1):e0170436.
- 39) Krychtiuk KA, **Lenz M**, Koller L, Honeder MC, Wutzlhofer L, Zhang C, Chi L, Maurer G, Niessner A, Huber K, Wojta J, Heinz G, Speidl WS. Monocyte subset distribution is associated with mortality in critically ill patients. *Thromb Haemost*. **2016 Oct** 28;116(5):949-957.
- 40) Krychtiuk KA, Ruhittel S, Hohensinner PJ, Koller L, Kaun C, **Lenz M**, Bauer B, Wutzlhofer L, Draxler DF, Maurer G, Huber K, Wojta J, Heinz G, Niessner A, Speidl WS. Mitochondrial DNA and Toll-Like Receptor-9 Are Associated With Mortality in Critically Ill Patients. *Crit Care Med*. **2015 Dec**;43(12):2633-41.
- 41) Krychtiuk KA, Kastl SP, Pfaffenberger S, **Lenz M**, Hofbauer SL, Wonnerth A, Koller L, Katsaros KM, Pongratz T, Goliasch G, Niessner A, Gaspar L, Huber K, Maurer G, Dostal E, Wojta J, Oravec S, Speidl WS. Association of small dense LDL serum levels and circulating monocyte subsets in stable coronary artery disease. *PLoS One*. **2015 Apr 7**;10(4):e0123367.