

Curriculum Vitae



Personal Data

Name Univ.-Prof. Dr. med. Philipp Sebastian Ludwig Wild, MSc

Adresse: University Medical Center
Preventive Cardiology and Medical Prevention, Center for Cardiology
Clinical Epidemiology and Systems Medicine, Center for Thrombosis
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Web Preventive Cardiology und Medical Prevention
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 Gutenberg Health Study
 (gutenberg-healthstudy.de)

Institutional affiliations

- University Medical Center Mainz
Preventive Cardiology and Medical Prevention, Center for Cardiology
Clinical Epidemiology, Center for Thrombosis and Hemostasis
- German Center for Cardiovascular Research (DZHK), Partner Site Rhine-Main
- Institute for Molecular Biology (IMB) gGmbH

Current positions

Full Professor (W3) for Clinical Epidemiology at University Medical Center Mainz

- Head of Preventive Cardiology and Medical Prevention, Center for Cardiology
- Head of Clinical Epidemiology and Systems Medicine, Center for Thrombosis and Hemostasis (CTH)
- Principal Investigator, German Center for Cardiovascular Research (DZHK)
- Adjunct Clinician, Institute for Molecular Biology (IMB), Mainz

Institutional responsibilities

Since 2022	Member of the "Clinical Strategy" Advisory Board of the Medical Executive Board, University Medical Center Mainz
Since 2021	Member of the concept development team (KET) for a Helmholtz Center for Aging Research at the Mainz site, JGU Mainz
Since 2015	Member of the Steering Committee, University Center for Tumor Diseases Mainz (UCT), University Medical Center Mainz
Since 2015	Committee for Research Funding (AFF), University Medical Center Mainz
Since 2015	Spokesperson of the Research Center for Translational Vascular Biology (CTVB), University Medical Center Mainz
Since 2015	Head of Liquid Biobanking, BioBank Mainz, University Medical Center Mainz
Since 2015	Member of the Coordination Committee of the Natural and Medical Sciences Research Center (NMFZ), University Medical Center Mainz
Since 2014	Member of the Steering Board of the Mainz Research School of Translational Biomedicine (TransMed) of the University Medical Center Mainz

Clinical expertise

Internal medicine with focus on cardiology

- Arterial and venous thrombotic diseases
- Heart failure
- Lipidology
- Preventive medicine

Research focus

- Cardiovascular translational medicine

Focus of the research group: molecular and (sub-)clinical markers of cardiovascular disease, arterial and venous vascular disease, heart failure, cardiometabolism, autonomic dysfunction.

- Systems Medicine
- Ageing research
- Clinical Epidemiology

School education

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|-----------|---|
| 06/1995 | „Allgemeine Hochschulreife“ (Abitur) at the „Mathematisch-Naturwissenschaftliches Gymnasium“ Bad Tölz |
| 1995-1996 | Military service
incl. 3-month nursing internship at Bad Tölz Municipal Hospital |

University education

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| 1996 – 2001 | Medical School, University Leipzig |
| 2001 – 2002 | Medical School, Philipps University Marburg |
| 2007 - 2010 | Master of Science in Epidemiology (MSc) IMBEI, University Medical Center Mainz |

Academic/Scientific qualifications

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| 1999 – 2004 | PhD student with Prof. Dr. med. R. Zotz, Philipps-University Marburg Doctoral thesis: "Visualization and documentation of coronary arteries by two-dimensional transesophageal echocardiography - fragment reconstruction of coronary arteries". |
| 02/2004 | Promotion in human medicine with „summa cum laude“ |
| 01/2012 | Master of Science in Epidemiology (M.Sc.) |

Medical qualifications

2022	Specialist in internal medicine and cardiology
2019	Certificate Advanced Course for Principal Investigator / Clinical Trial Director (LKP)
2018	Certificate Refresher Course "Clinical Trials
2016	Certificate Refresher Course "Clinical Trials
2011	Certificate Refresher Course "Clinical Trials
10/2010	Certificate "Rhetorics and didactics in medical teaching"
02/2010	Certificate of the State Chamber of Physicians Rheinland-Pfalz, Academy for Physicians' training
2009	Specialist Internal Medicine
2008	Course "Fundamentals of Medical Evaluation"
2008	Coagulation „Self-Management for Training Personnel" Certificates
2005	Certificate "Investigator in clinical trials"
2004	Training in the pacemaker therapy with Certificate of competence ("Sachkundenachweis")
2004	Acquisition of the "Proof of Qualification on rescue services"; from 11/2004 active as emergency physician
2004	Basic course in radiation protection
2004	Approbation

Professional career

- Since 02/2024 Scientist in the German Cancer Consortium (DKTK)
- Since 05/2022 Member of the Board of the Mainz Heart Foundation
- Since 04/2022 Research Group Leader (Adjunct Clinician), Institute for Molecular Biology (IMB) gGmbH
- Since 07/2021 Spokesman of the Taskforce "Digitization - Clinical Research", German Center for Cardiovascular Research (DZHK)
- Since 07/2020 Deputy Spokesman for the RhineMain site
German Center for Cardiovascular Research (DZHK)
- Since 03/2020 Member of the Expert Commission of the Institute for Medical and pharmaceutical examination questions I(MPP), Mainz
- Since 05/2019 Head "Clinical Epidemiology and Systems Medicine"

	Center for Thrombosis and Hemostasis, University Medical Center Mainz
Since 2015	Board Member and Vice Chairman of the Use & Access Committee of the German Center for Cardiovascular Research (DZHK)
Since 02/2014	W3-Professor of Clinical Epidemiology, University Medical Center Mainz
Since 09/2013	Head "Preventive Cardiology and Preventive Medicine", Center for Cardiology, University Medical Center Mainz
Since 2013	Board Member of the Research Coordinating Committee (RCC), German Center for Cardiovascular Research (DZHK)
Since 07/2013	Spokesman at German Center for Cardiovascular Research (DZHK), University Medical Center Mainz, Rhine-Main site
01/2013	Call to the W3 professorship "Epidemiology", Faculty of Medicine, University Medical Center Hamburg-Eppendorf (call returned)
08/2012 -02/2014	W2-Professor of Clinical Epidemiology, Center for Thrombosis and Hemostasis, University Medical Center Mainz
06/2012 -04/2019	Head "Klinische Epidemiologie", Center for Thrombosis and Hemostasis, University Medical Center Mainz
Since 2012	Principal Investigator, DZHK Study Coordinator, German Center for Cardiovascular Research (DZHK)
2011-2012	Investigator, German Center for Cardiovascular Research (DZHK)
Since 02/2011	Coordinating Principal Investigator (PI) and Member Steering Committee of the Gutenberg Health Study (GHS)
06/2010 -07/2012	Attending physician, 2. Medical Clinic, University Medical Center Mainz
09/2009 -04/2017	Principal Investigator of the project "Genetics of Diastolic Heart Failure", CHARGE Consortium
09/2005 -05/2010	Resident/Researcher, 2. Medical Clinic, University Medical Center Mainz
02/2003 -08/2005	Resident, Medical Center Schwalmstadt, Academic teaching hospital of the Philipps University Marburg

Honors and awards

2010	Hans-Blömer Award for Clinical Cardiology, German Society of Cardiology - (DGK) (500€)
2011	Robert-Müller Research Award, Johannes Gutenberg University Mainz (5,000€)
2013	Stiftung Mainzer Herz Award (5,000 €)

Curriculum Vitae

- 2017 Robert-Müller Research Award, Johannes Gutenberg University Mainz (10,000€)
- 2019 Young Investigator Award „Heart Failure“ of the German Society of Cardiology (DGK)
- 2019 Stiftung Mainzer Herz Award (200,000 €)
- 2021 Young Investigator Award „Heart Failure“ of the German Society of Cardiology (DGK)
- 2022 Young Investigator Award „Heart Failure“ of the German Society of Cardiology (DGK)

Honorary

Since 05/2022 Member of the Board Stiftung Mainzer Herz

Publications

Overview Bibliometry *(Last update: January 19, 2026)*

	Number of publications	Cumulativ IF
Total	472	3557,580
First and last author	99	719,846
Co-authorships	373	2837,734
Ø IF per publication:	7,44	

Databases

Web of Science *(Last update: January 19, 2026)*

ORCID iD:	0000-0003-4413-9752
Publications	460
Citations	28,069
Average citations per publication	61.02
Citing article	23,741
<i>h</i> -index	72

GoogleScholar *(Last update: January 19, 2026)*

Citations	45.284
<i>h</i> -index	92
i10-index	366

Scopus *(Last update: January 19, 2026)*

Publications	378
Citations	30,299
<i>h</i> -index	73

First and last authorships including shared first and last authorships

(Total number 99, Cumulative IF: 719,846)

1. Zeid S, Buch G, Söhne J, Velmeden D, Tröbs SO, Dinh W, Simon P, Michal M, Prochaska JH, Wild PS. App-Based Coaching Improves Physical Activity in Patients With HFpEF: Results of the MyoMobile Trial. *JACC Heart Fail.* 2025 Dec 29 (IF 15,200)
2. Wild PS, Zeller T. From locus to lipase: LIPA as a paradigm for post-GWAS mechanistic and translational research in CAD. *Eur Heart J.* 2025 Oct 9 (IF 35,600)
3. Schuster AK, Welzel AM, Jäger T, Nickels S, Schulz A, Faber J, Merzenich H, Schmidtman I, Münzel T, Lackner KJ, Beutel ME, Pfeiffer N, Wild PS. Altered Neuroretinal Tissue in Childhood Cancer Survivors: Data From the German CVSS Study. *Transl Vis Sci Technol.* 2025 Oct 1 (IF 2,600)
4. Baumkötter R, Yilmaz S, Chalabi J, Ten Cate V, Mamoor Alam AS, Golriz Khatami S, Zahn D, Hettich-Damm N, Prochaska JH, Schmidtman I, Lehnert K, Steinmetz A, Dörr M, Pfeiffer N, Münzel T, Lackner KJ, Beutel ME, Wild PS. Risk tools for predicting long-term sequelae based on symptom profiles after known and undetected SARS-CoV-2 infections in the population. *Eur J Epidemiol.* 2025 May 19 (IF 7,700)
5. Zeid S, Prochaska JH, Schuch A, Tröbs SO, Schulz A, Münzel T, Pies T, Dinh W, Michal M, Simon P, Wild PS. Personalized app-based coaching for improving physical activity in heart failure with preserved ejection fraction patients compared with standard care: rationale and design of the MyoMobile Study. *Eur Heart J Digit Health.* 2025 Jan 30 (IF 4,400)
6. Schuster AK, Voigt AM, Jäger T, Nickels S, Schulz A, Faber J, Wingerter A, Merzenich H, Schmidtman I, Beutel ME, Münzel T, Lackner KJ, Pfeiffer N, Wild PS. Altered retinal vasculature in childhood cancer survivors: Data from the German CVSS-study. *Acta Ophthalmol.* 2025 Jan 23 (IF 3,000)
7. Boeckmans J, Prochaska JH, Gieswinkel A, Böhm M, Wild PS, Schattenberg JM. Clinical utility of the Fibrosis-4 index for predicting mortality in patients with heart failure with or without metabolic dysfunction-associated steatotic liver disease: a prospective cohort study. *Lancet Reg Health Eur.* 2024 Nov 30;48:101153. (IF 13,600)
8. Unterrainer JM, Petersen J, Schmidt P, Ernst M, Wirtz MA, Reinwarth AC, Wicke F, Ghaemi Kerahrodi J, Michal M, Münzel T, König J, Lackner KJ, Pfeiffer N, Tüscher O, Galle PR, Beutel M, Wild PS. Different risk and protective factors predict change of planning ability in middle versus older age. *Sci Rep.* 2024 Oct 25;14(1):25275. (IF 3,800)
9. Zeid S, Buch G, Velmeden D, Söhne J, Schulz A, Schuch A, Tröbs SO, Heidorn MW, Müller F, Strauch K, Coboecken K, Lackner KJ, Gori T, Münzel T, Prochaska JH, Wild PS. Heart rate variability: reference values and role for clinical profile and mortality in individuals with heart failure. *Clin Res Cardiol.* 2024 Sep;113(9):1317-1330. (IF 3,800)
10. Buch G, Schulz A, Schmidtman I, Strauch K, Wild PS. Sparse Group Penalties for bi-level variable selection. *Biom J.* 2024 Jun;66(4):e2200334. (IF 1,700)
11. Panova-Noeva M, Koeck T, Schoelch C, Schulz A, Prochaska JH, Michal M, Strauch K, Schuster AK, Lackner KJ, Münzel T, Hennige AM, Wild PS. Obesity-related inflammatory

- protein signature in cardiovascular clinical outcomes: results from the Gutenberg Health Study. *Obesity* (Silver Spring). 2024 Apr 25. (IF 6,900)
12. Buch G, Schulz A, Schmidtman I, Strauch K, Wild PS. Interpretability of bi-level variable selection methods. *Biom J*. 2024 Mar;66(2):e2300063. (IF 1,700)
 13. Müller FS, Aherrahrou Z, Grasshoff H, Heidorn MW, Humrich JY, Johanson L, Aherrahrou R, Reinberger T, Schulz A, Ten Cate V, Robles AP, Koeck T, Rapp S, Lange T, Brachaczek L, Luebber F, Erdmann J, Heidecke H, Schulze-Forster K, Dechend R, Lackner KJ, Pfeiffer N, Ghaemi Kerahrodi J, Tüscher O, Schwarting A, Strauch K, Münzel T, Prochaska JH, Riemekasten G, Wild PS. Autoantibodies against the chemokine receptor 3 predict cardiovascular risk. *Eur Heart J*. 2023 Dec 14;44(47):4935-4949. (IF 39,300)
 14. Ten Cate V, Rapp S, Schulz A, Pallares Robles A, Jurk K, Koeck T, Espinola-Klein C, Halank M, Seyfarth HJ, Beutel ME, Schuster AK, Marini F, Hobohm L, Lankeit M, Lackner KJ, Ruf W, Münzel T, Andrade-Navarro MA, Prochaska JH, Konstantinides SV, Wild PS. Circulating microRNAs predict recurrence and death following venous thromboembolism. *J Thromb Haemost*. 2023 Oct;21(10):2797-2810. (IF 10,400)
 15. Göbel S, Wingerter A, Prochaska JH, Schulz A, Neu MA, Henninger N, Spix C, Beutel M, Lackner K, Münzel T, Lam CS, Merzenich H, Faber J, Wild PS. Development and Phenotype of Heart Failure in Long-Term Survivors of Childhood Cancer: The CVSS Study. *J Am Heart Assoc*. 2023 Oct 3;12(19):e030020. (IF 5,400)
 16. Pallares Robles A, Ten Cate V, Lenz M, Schulz A, Prochaska JH, Rapp S, Koeck T, Leineweber K, Heitmeier S, Opitz CF, Held M, Espinola-Klein C, Lackner KJ, Münzel T, Konstantinides SV, Ten Cate-Hoek A, Ten Cate H, Wild PS. Unsupervised clustering of venous thromboembolism patients by clinical features at presentation identifies novel endotypes that improve prognostic stratification. *Thromb Res*. 2023 Jul;227:71-81. (IF 7,500)
 17. Zeid S, Buch G, Velmeden D, Söhne J, Schulz A, Schuch A, Tröbs SO, Heidorn MW, Müller F, Strauch K, Coboeken K, Lackner KJ, Gori T, Münzel T, Prochaska JH, Wild PS. Heart rate variability: reference values and role for clinical profile and mortality in individuals with heart failure. *Clin Res Cardiol*. 2023 Jul 9. (IF 5,000)
 18. Prochaska JH, Jünger C, Schulz A, Arnold N, Müller F, Heidorn MW, Baumkötter R, Zahn D, Koeck T, Tröbs SO, Lackner KJ, Daiber A, Binder H, Shah SJ, Gori T, Münzel T, Wild PS. Effects of empagliflozin on left ventricular diastolic function in addition to usual care in individuals with type 2 diabetes mellitus—results from the randomized, double-blind, placebo-controlled EmDia trial. *Clin Res Cardiol*. 2023 Jul;112(7):911-922. (IF 5,000)
 19. Arnold N, Hermanns IM, Schulz A, Hahad O, Schmitt VH, Panova-Noeva M, Prochaska JH, Binder H, Pfeiffer N, Beutel M, Lackner KJ, Münzel T, Wild PS. Renin, aldosterone, the aldosterone-to-renin ratio, and incident hypertension among normotensive subjects from the general population. *Cardiovasc Res*. 2023 Mar 17;119(1):294-301. (IF 10,900)
 20. Ten Cate V, Prochaska JH, Schulz A, Nagler M, Robles AP, Jurk K, Koeck T, Rapp S, Düber C, Münzel T, Konstantinides SV, Wild PS. Clinical profile and outcome of isolated pulmonary embolism: a systematic review and meta-analysis. *EClinicalMedicine*. 2023 Apr 27;59:101973. (IF 15,100)

21. Krolevets M, Cate VT, Prochaska JH, Schulz A, Rapp S, Tenzer S, Andrade-Navarro MA, Horvath S, Niehrs C, Wild PS. DNA methylation and cardiovascular disease in humans: a systematic review and database of known CpG methylation sites. *Clin Epigenetics*. 2023 Mar 30;15(1):56. (IF 5,700)
22. Buch G, Schulz A, Schmidtman I, Strauch K, Wild PS. A systematic review and evaluation of statistical methods for group variable selection. *Stat Med*. 2023 Feb 10;42(3):331-352. (IF 2,000)
23. Baumkötter R, Yilmaz S, Zahn D, Fenzl K, Prochaska JH, Rossmann H, Schmidtman, Schuster AK, Beutel ME, Lackner KJ, Münzel T, Wild PS. Protective behavior and SARS-CoV-2 infection risk in the population - Results from the Gutenberg COVID-19 study. *BMC Public Health*. 2022 Oct 31;22(1):1993. (IF 4,500)
24. Panova-Noeva M, Wagner B, Nagler M, Koeck T, Ten Cate V, Eggebrecht L, Prochaska JH, Meyer I, Gerdes C, Spronk HM, Lackner KJ, Ten Cate H, Leineweber K, Heitmeier S, Konstantinides S and Wild PS. Variation of platelet function in clinical phenotypes of acute venous thromboembolism - Results from the GMP-VTE project. *J Thromb Haemost*. 2022;20:705-715. (IF 10,400)
25. Schmitt VH, Leuschner A, Jünger C, Pinto A, Hahad O, Schulz A, Arnold N, Tröbs SO, Panova-Noeva M, Keller K, Zeller T, Beutel M, Pfeiffer N, Strauch K, Blankenberg S, Lackner KJ, Prochaska JH, Wild PS and Münzel T. Cardiovascular profiling in the diabetic continuum: results from the population-based Gutenberg Health Study. *Clin Res Cardiol*. 2022;111:272-283. (IF 6,138)
26. Pallares Robles A, Ten Cate V, Schulz A, Prochaska JH, Rapp S, Koeck T, Panova-Noeva M, Heitmeier S, Schwers S, Leineweber K, Seyfarth HJ, Opitz CF, Spronk H, Espinola-Klein C, Lackner KJ, Münzel T, Andrade-Navarro MA, Konstantinides SV, Ten Cate H and Wild PS. Association of FXI activity with thrombo-inflammation, extracellular matrix, lipid metabolism and apoptosis in venous thrombosis. *Sci Rep*. 2022;12:9761. (IF 4,600)
27. Merzenich H, Baaken D, Schneider A, Neu MA, Wingerter A, Faber J, Wild PS and Spix C. Mortality risk among 5-year survivors of childhood cancer in Germany-Results from the CVSS study (Cardiac and Vascular late Sequelae in long-term Survivors of childhood cancer study). *Int J Cancer*. 2022;150:67-72. (IF 7,316)
28. Keller K, Prochaska JH, Coldewey M, Göbel S, Schmitt VH, Hahad O, Ullmann A, Nagler M, Lamparter H, Espinola-Klein C, Münzel T and Wild PS. Atherosclerosis and Its Impact on the Outcomes of Patients with Deep Venous Thrombosis. *Life (Basel)*. 2022;12. (IF 3,200)
29. Jünger C, Prochaska JH, Gori T, Schulz A, Binder H, Daiber A, Koeck T, Rapp S, Lackner KJ, Münzel T and Wild PS. Rationale and design of the effects of EMPagliflozin on left ventricular DIAstolic function in diabetes (EmDia) study. *J Cardiovasc Med (Hagerstown)*. 2022;23:191-197. (IF 3,000)
30. van Paridon PCS, Panova-Noeva M, van Oerle R, Schulz A, Prochaska JH, Arnold N, Schmidtman I, Beutel M, Pfeiffer N, Münzel T, Lackner KJ, Hackeng TM, Ten Cate H, Wild PS and Spronk HMM. Relation between Tissue Factor Pathway Inhibitor Activity and Cardiovascular Risk Factors and Diseases in a Large Population Sample. *Thromb Haemost*. 2021;121:174-181. (IF 6,681)
31. Tröbs SO, Prochaska JH, Schwuchow-Thonke S, Schulz A, Müller F, Heidorn MW, Göbel S, Diestelmeier S, Lerma Monteverde J, Lackner KJ, Gori T, Münzel T and Wild PS.

- Association of Global Longitudinal Strain With Clinical Status and Mortality in Patients With Chronic Heart Failure. *JAMA Cardiol.* 2021;6:448–456. (IF 30,157)
32. Ten Cate V, Prochaska JH, Schulz A, Koeck T, Pallares Robles A, Lenz M, Eggebrecht L, Rapp S, Panova-Noeva M, Ghofrani HA, Meyer FJ, Espinola-Klein C, Lackner KJ, Michal M, Schuster AK, Strauch K, Zink AM, Laux V, Heitmeier S, Konstantinides SV, Münzel T, Andrade-Navarro MA, Leineweber K and Wild PS. Protein expression profiling suggests relevance of noncanonical pathways in isolated pulmonary embolism. *Blood.* 2021;137:2681–2693. (IF 25,669)
 33. Ten Cate V, Koeck T, Prochaska J, Schulz A, Panova-Noeva M, Rapp S, Eggebrecht L, Lenz M, Glunz J, Sauer M, Ewert R, Halank M, Münzel T, Heitmeier S, Andrade-Navarro MA, Lackner KJ, Konstantinides SV, Leineweber K and Wild PS. A targeted proteomics investigation of the obesity paradox in venous thromboembolism. *Blood Adv.* 2021;5:2909–2918. (IF 7,642)
 34. Schmitt VH, Prochaska JH, Föll AS, Schulz A, Keller K, Hahad O, Koeck T, Tröbs SO, Rapp S, Beutel M, Pfeiffer N, Strauch K, Lackner KJ, Münzel T and Wild PS. Galectin-3 for prediction of cardiac function compared to NT-proBNP in individuals with prediabetes and type 2 diabetes mellitus. *Sci Rep.* 2021;11:19012. (IF 4,997)
 35. Schmitt VH, Billaudelle AM, Schulz A, Keller K, Hahad O, Tröbs SO, Koeck T, Michal M, Schuster AK, Toenges G, Lackner KJ, Prochaska JH, Münzel T and Wild PS. Disturbed Glucose Metabolism and Left Ventricular Geometry in the General Population. *J Clin Med.* 2021;10. (IF 4,964)
 36. Rodionov RN, Beyer-Westendorf J, Bode-Böger SM, Eggebrecht L, Konstantinides S, Martens-Lobenhoffer J, Nagler M, Prochaska J and Wild P. Homoarginine and methylarginines independently predict long-term outcome in patients presenting with suspicion of venous thromboembolism. *Sci Rep.* 2021;11:9569. (IF 4,997)
 37. Prochaska JH, Arnold N, Falcke A, Kopp S, Schulz A, Buch G, Moll S, Panova-Noeva M, Jünger C, Eggebrecht L, Pfeiffer N, Beutel M, Binder H, Grabbe S, Lackner KJ, Ten Cate-Hoek A, Espinola-Klein C, Münzel T and Wild PS. Chronic venous insufficiency, cardiovascular disease, and mortality: a population study. *Eur Heart J.* 2021;42:4157–4165. (IF 35,855)
 38. Keller K, Sinning C, Schulz A, Jünger C, Schmitt VH, Hahad O, Zeller T, Beutel M, Pfeiffer N, Strauch K, Blankenberg S, Lackner KJ, Prochaska JH, Schulz E, Münzel T and Wild PS. Right atrium size in the general population. *Sci Rep.* 2021;11:22523. (IF 4,997)
 39. Göbel S, Prochaska JH, Tröbs SO, Panova-Noeva M, Espinola-Klein C, Michal M, Lackner KJ, Gori T, Münzel T and Wild PS. Rationale, design and baseline characteristics of the MyoVasc study: A prospective cohort study investigating development and progression of heart failure. *Eur J Prev Cardiol.* 2021;28:1009–1018. (IF 8,526)
 40. Eggebrecht L, Ludolph P, Göbel S, Panova-Noeva M, Arnold N, Nagler M, Bickel C, Lauterbach M, Hardt R, Cate HT, Lackner KJ, Espinola-Klein C, Münzel T, Prochaska JH and Wild PS. Cost saving analysis of specialized, eHealth-based management of patients receiving oral anticoagulation therapy: Results from the thrombEVAL study. *Sci Rep.* 2021;11:2577. (IF 4,997)
 41. Arnold N, Merzenich H, Wingerter A, Schulz A, Schneider A, Prochaska JH, Göbel S, Neu MA, Henninger N, Panova-Noeva M, Eckerle S, Spix C, Schmidtman I, Lackner KJ, Beutel ME, Pfeiffer N, Münzel T, Faber J and Wild PS. Promotion of Arterial Stiffness by

- Childhood Cancer and Its Characteristics in Adult Long-Term Survivors. *J Am Heart Assoc.* 2021;10:e015609. (IF 6,107)
42. Arnold N, Deiseroth A, Hahad O, Diestelmeier S, Schulz A, Daubenbüchel A, Gori T, Binder H, Pfeiffer N, Prochaska J, Beutel M, Lackner KJ, Münzel T and Wild PS. Domains of Physical Activity in Relation to Stiffness Index in the General Population. *J Am Heart Assoc.* 2021;10:e020930. (IF 6,107)
 43. Wild PS, Dimmeler S and Eschenhagen T. An epidemiological study exploring a possible impact of treatment with ACE inhibitors or angiotensin receptor blockers on ACE2 plasma concentrations. *J Mol Cell Cardiol.* 2020;141:108-109. (IF 5,000)
 44. Ten Cate V, Eggebrecht L, Schulz A, Panova-Noeva M, Lenz M, Koeck T, Rapp S, Arnold N, Lackner KJ, Konstantinides S, Espinola-Klein C, Münzel T, Prochaska JH and Wild PS. Isolated Pulmonary Embolism Is Associated With a High Risk of Arterial Thrombotic Disease: Results From the VTEval Study. *Chest.* 2020;158:341-349. (IF 9,41)
 45. Schuster AK, Leuschner A, Feretos C, Blumenstein P, Troebs SO, Schwuchow S, Schulz A, Nickels S, Mirshahi A, Blettner M, Beutel ME, Lackner KJ, Münzel T, Pfeiffer N and Wild PS. Choroidal thickness is associated with cardiovascular risk factors and cardiac health: the Gutenberg Health Study. *Clin Res Cardiol.* 2020;109:172-182. (IF 5,46)
 46. Prochaska JH, Müller F and Wild PS. Impact of diesel exposure on human health: the saga continues *Eur J Prev Cardiol.* 2020. (IF 8,526)
 47. Panova-Noeva M, Wagner B, Nagler M, Koeck T, Ten Cate V, Prochaska JH, Heitmeier S, Meyer I, Gerdes C, Laux V, Konstantinides S, Spronk HM, Münzel T, Lackner KJ, Leineweber K, Ten Cate H and Wild PS. Comprehensive platelet phenotyping supports the role of platelets in the pathogenesis of acute venous thromboembolism - results from clinical observation studies. *EBioMedicine.* 2020;60:102978. (IF 8,143)
 48. Ten Cate V, Koeck T, Panova-Noeva M, Rapp S, Prochaska JH, Lenz M, Schulz A, Eggebrecht L, Hermanns MI, Heitmeier S, Krahn T, Laux V, Münzel T, Leineweber K, Konstantinides SV and Wild PS. A prospective cohort study to identify and evaluate endotypes of venous thromboembolism: Rationale and design of the Genotyping and Molecular Phenotyping in Venous ThromboEmbolism project (GMP-VTE). *Thromb Res.* 2019;181:84-91. (IF 2,869)
 49. Prochaska JH, Tröbs SO and Wild PS. PCSK9: A link between air pollution and cardiovascular disease? *Eur J Prev Cardiol.* 2019;26:576-577. (IF 5,864)
 50. Prochaska JH, Luther N, Brähler M, Schulz A, Hermanns MI, Lackner KJ, Espinola-Klein C, Münzel T, Wild PS and Becker C. Acute deep vein thrombosis suppresses peripheral T cell effector function. *Br J Haematol.* 2019;184:847-850. (IF 5,128)
 51. Prochaska JH, Hausner C, Nagler M, Göbel S, Eggebrecht L, Panova-Noeva M, Arnold N, Lauterbach M, Bickel C, Michal M, Hardt R, Espinola-Klein C, Lackner KJ, Münzel T and Wild PS. Subtherapeutic Anticoagulation Control under Treatment with Vitamin K-Antagonists-Data from a Specialized Coagulation Service. *Thromb Haemost.* 2019;119:1347-1357. (IF 4,385)
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Third-party funding

Funding overview 2010 - 2025

	Volumen gesamt	Share of research group
Public funding	83.80 Mio. Euro	37.09 Mio. Euro
Industry	25.37 Mio. Euro	25.37 Mio. Euro
Foundations and donations	6.45 Mio. Euro	2.07 Mio. Euro
Total third-party funding	115.62 Mio. Euro	64.53 Mio. Euro
Intramural funding	19.16 Mio. Euro	19.06 Mio. Euro
Total funding	134.78 Mio. Euro	83.59 Mio. Euro

Third-party funding – Public funding

Project title	Funding institution	FKZ	Duration		Total [€]	Share [€]
			from	- to		
EPIC-AI. Endotyping the Post-COVID Syndrome by Integrative Multi-Omics Analysis using Artificial Intelligence – towards personalized therapy	BMBF	01EQ2401A	Nov 24	Oct 26	500k	130k
TheraSurv Post-COVID. Surveillance system for post-COVID syndrome therapies	MWG RLP Leifheit-Stiftung	NA	Sep 24	Aug 26	940k	940k
BMBF-LUCAS. Lung cancer screening: minimizing harm and maximizing benefit	BMBF	01KD2413B	Jul 24	Jun 27	1,10 Mio.	482k
CoAGE. Graduate Programme Translational Ageing Research	MWG RLP	724- 0053#2023/00 01-1501 15404	Jan 24	Jun 27	1,30 Mio.	160k
German Collaborative Cardiovascular Cohorts	BMBF/DZHK	81X1210105	Jun 23	May 25	470k	32k
DIASyM II. Data-Independent Acquisition-based Systems Medicine: Mass spectrometry for high-throughput deep phenotyping of the heart failure syndrome, 2. Funding phase	BMBF	16LW0241K	Mar 23	Feb 26	3,65 Mio.	810k
curATime. Cluster for atherothrombosis and individualised medicine	BMBF	03ZU1202AA 03ZU1202CD 03ZU1202DB 03ZU1202JC 03ZU1202KB 03ZU1202LB 03ZU1202MB 03ZU1202OA	Mar 23	Feb 26	15,00 Mio.	3,62 Mio.
SentiSurv. Establishment of a sentinel cohort for the development and establishment of an evidence-based surveillance early warning system for SARS-CoV-2 in Rhineland-Palatinate	MWG RLP	22_0961, 23_0469	Oct 22	Aug 24	2,92 Mio.	2,92 Mio.
Gutenberg Healthy Ageing Study	MWG RLP	AZ 724- 0010#2021/001 0- 1501 15402	Oct 22	Dec 23	500k	445k
DZHK Use & Access. Identification of circulatory proteins reflecting myocardial processes relevant to disease progression in heart failure (Knosalla)	BMBF/DZHK	81X1210104	Jun 22	May 23	40k	37k

Third-party funding

Project title	Funding institution	FKZ	Duration		Total [€]	Share [€]
			from	- to		
DZHK Use & Access. Proteomic exploration of pathophysiological pathways related to the novel biomarker CCN1 for prediction of all-cause mortality in patients with Dilated Cardiomyopathy (Klingenberg)	BMBF/DZHK	81X1210103	Jan 22	Aug 23	41k	30k
DIASyM. Junior Research Groups Systems Medicine and Metabolomics	BMBF	161L0219	Nov 21	Oct 26	4,13 Mio.	1,78 Mio.
Gutenberg Long COVID Study. Investigation of the effects and long-term consequences of a SARS-CoV-2 infection on health	MWG RLP	724- J010#2021/003 0-1501	Oct 21	Dec 22	400k	400k
curATime. Cluster for atherothrombosis and individualised medicine (Concept phase)	BMBF	100513613	Oct 21	Mar 22	250k	40k
DZHK Shared Expertise. The molecular response to exercise training in patients with heart failure with preserved ejection fraction (Bahls)	BMBF/DZHK	81X2210123	Oct 21	Mar 24	100k	80k
DZHK Digitalisierungsprojekt. Comprehensive platform for data collection via smartphone apps	BMBF/DZHK	81Z0210104	Jul 21	Mar 23	50k	50k
Fostering Quantitative Biosciences to combat infectious diseases and strengthen life science research in Mainz - QCB Postdoctoral Research Fellow Program (PRFP)	MWG RLP	8655620	Jun 21	Dec 23	750k	340k
Gutenberg COVID-19 Study. Analysing the impact of the SARS-CoV-2 pandemic in Rhineland-Palatinate on prevention and health at individual and population level, Phase II	REACT-EU	84009735	May 21	Jun 23	1,50 Mio.	1,33 Mio.
Gutenberg COVID-19 Study. An interdisciplinary observational study on the course and impact of the COVID-19 pandemic	EFRE	84007232	Aug 20	Jun 21	880k	880k
Gutenberg COVID-19 Study. An interdisciplinary observational study on the course and impact of the COVID-19 pandemic	MWG RLP	84007232	Aug 20	Jun 21	680k	680k

Third-party funding

Project title	Funding institution	FKZ	Duration		Total [€]	Share [€]
			from	- to		
B-FAST. Nationwide research network "Applied Surveillance and Testing"	BMBF/NUM	01KX2021	May 20	Mar 21	630k	210k
ACE2. Potential impact of angiotensin converting enzyme inhibitors (ACE-I) and angiotensin II receptor blockers (ARB) on the susceptibility and severity of ACE-2 mediated respiratory infections	BMBF/DZHK	81Z0210102	Apr 20	Jan 21	40k	40k
DIASyM. Data-Independent Acquisition-based Systems Medicine: Mass spectrometry for high-throughput deep phenotyping of the heart failure syndrome, 1. Funding phase	BMBF	161L0217A 031L0217A	Mar 20	Feb 23	7,03 Mio.	1,09 Mio.
Psychosocial and physical workloads and cardiometabolic health among employees in the 10-year longitudinal study of the Gutenberg Health Study	BAuA	F2447 / 537727	Sep 19	Sep 24	1,40 Mio.	1,40 Mio.
TICARDIO. Thrombo-inflammation in cardiovascular disease - Multifaceted analysis of coagulant activity in venous thrombo-inflammation	European Union's Horizon 2020 research and innovation program under the Marie Skłodowska-Curie grant agreement	813409	Sep 19	Sep 22	205k	205k
CTH TRP-Project. The role of inflammation for primary and secondary venous thromboembolic events (Eggebrecht)	BMBF/CTH	TRP X42	Aug 19	Feb 21	100k	100k
CTH TRP-Project. Integrated multi-omics analyses elucidating the interplay of coagulation and inflammation in the development and progression of type 2 diabetes mellitus (Lenz/Köck)	BMBF/CTH	TRP X36	Aug 19	Jul 20	60k	60k
CTH TRP-Project. Correlation between hormone status and coagulation tendency in patients who have survived childhood cancer (Panova-Noeva)	BMBF/CTH	TRP X40	Aug 19	Feb 21	50k	50k

Third-party funding

Project title	Funding institution	FKZ	Duration		Total [€]	Share [€]
			from	- to		
CTH TRP-Project. Investigation of molecular signalling pathways in human thromboembolic diseases using high-throughput proteome analysis (ten Cate)	BMBF/CTH	TRP X24	Mar 19	Aug 20	40k	40k
CTH TRP-Project. Investigation of α -TFPI in thrombin generation and relation to the cardiovascular profile of the Gutenberg Health Study population (Panova-Noeva)	BMBF/CTH	TRP X22	Jan 19	Dec 19	50k	50k
Systems medicine investigation of heart failure syndrome, W3 Professorship Myocardial and Vascular Interactions, W2-Professorship Clinical Epidemiology of Heart Failure (DZHK-Partner side projects)	BMBF/DZHK	81Z0210101 81Z0210102 81Z0210103	Jan 19	Dec 25	6,50 Mio.	4,60 Mio.
DZHK Clinical Study Group / Investment programme	BMBF/DZHK	81X1210102	Jan 19	Dec 24	940k	940k
DZHK Platelet signatures and psoriasis in cardiac dysfunction	BMBF/DZHK	81X2210117	Jan 18	Dec 20	200k	60k
CTH Junior Group Clinical Platelet Epidemiology	BMBF/CTH	01E01503	Jan 17	Aug 20	530k	530k
DZHK Shared Expertise. SNP Genotyping and bioinformatic evaluation of the Myovasc Cohort to determine genetic risk factors of systolic and diastolic heart failure	BMBF/DZHK	81X2210113	Apr 16	Dec 18	30k	10k
DZHK Shared Expertise. Identification of differentially expressed proteins in the cardiac tissue of CRTCL1 deficient mice and their wildtype littermates	BMBF/DZHK	81X2800131	Nov 15	Dec 16	7k	7k
Centrum for Thrombosis and Hemostasis, Clinical epidemiology, 2. Funding phase	BMBF/CTH	01E01503	Sep 15	Aug 20	1,67 Mio.	760k
CTH Junior group Clinical Epidemiology and Systems Medicine, Fellowship Clinical Epidemiology, 2. Funding phase	BMBF/CTH	01E01503	Sep 15	Aug 20	500k	500k
CVSS-Studie. Cardiac and vascular late sequelae in long-term survivors of childhood cancer (2)	DFG	WI 3881/2-2	Apr 15	Sep 17	210k	210k

Third-party funding

Project title	Funding institution	FKZ	Duration		Total [€]	Share [€]
			from	- to		
MyoVasc-Studie. An observational study to investigate heart failure and its interaction with vascular diseases, follow-up funding	BMBF/DZHK	81Z2210101	Jan 15	Dec 18	2,45 Mio.	2,45 Mio.
Occupational factors influencing cardiovascular diseases - evaluation of the Gutenberg Health Study in a longitudinal section over time	BAuA	F2238/ 511065	Jan 15	Dec 18	420k	420k
DZHK Clinical Study Group / Investment programme	BMBF/DZHK	81X1210101	Nov 14	Dec 18	630k	630k
CTH Fellowship Clinical epidemiology Panova-Noeva	BMBF/CTH	01E01503	Oct 14	Aug 15	100k	100k
CTH Fellowship Clinical epidemiology Prochaska	BMBF/CTH	01E01503	Apr 14	May 15	150k	150k
Development and expansion of the CTH biobanking platform for large, multi-centre studies with external biobanks	BMBF/CTH	01E01003	Apr 14	Aug 15	90k	90k
TRP B2-1: Hypercoagulability in cardiovascular diseases - significance of thrombin generation potential and D-dimer concentration	BMBF/CTH	01E01003	Mar 14	Aug 15	50k	50k
DZHK Shared Expertise. Role of CD40L signaling in hyperlipidemia induced endothelial dysfunction and lipid metabolism	BMBF/DZHK	81X2210103	Jan 14	Dec 14	20k	10k
CVSS-Studie. Cardiac and vascular late sequelae in long-term survivors of childhood cancer (1)	DFG	WI 3881/2-1	Sep 13	Dec 14	245k	245k
DZHK- Training programme for young scientists	BMBF/DZHK	81X3210101 81X3210102 81X3210103	Jan 13	Dec 24	300k	300k
German Centre for Cardiovascular Research. MyoVasc study, 1. Funding phase	BMBF	81Z3210131	Jan 12	Dec 14	5,20 Mio.	2,76 Mio.
Chronotherapeutic lifestyle intervention for diabetes and obesity to reset the circadian rhythm and improve cardiometabolic risk in the European working population (EuRhythDia)	EU	278397	Jan 12	Dec 16	120k	120k

Third-party funding

Project title	Funding institution	FKZ	Duration		Total [€]	Share [€]
			from	- to		
Biomarker for Cardiovascular Risk Assessment in Europe (BiomarCaRE)	EU	278913	Jan 12	Dec 16	60k	60k
Center for Thrombosis and Hemostasis, Clinical epidemiology, 1. Funding phase	BMBF	01E01503	Oct 11	Aug 15	15,00 Mio.	1,30 Mio.
MyoVascFn – Cohort Study (FFM 3.1 HF)	BMBF/DZHK	81Z3210131	Oct 11	Mar 15	800k	800k
DZHK Added value of endothelial function measurement for prognosis and therapy management (FFM-5.1-PR)	BMBF/DZHK	81Z5210151	Oct 11	Mar 15	220k	220k
thrombEVAL – a healthcare research project to improve the medical treatment of patients on oral anticoagulation	MASGFF RLP	623-1	Jan 11	Dec 12	710k	710k
thrombEVAL – a healthcare research project to improve the medical treatment of patients on oral anticoagulation	BMBF	NA	Jan 11	Dec 12	150k	150k
Integrated Genomics and Coronary Artery Disease (CARDomics)	BMBF	NA	Jan 10	Dec 12	1,24 Mio.	50k
Work-related risk factors for diseases of the cardiovascular system	BAuA	F2235	Jan 10	Apr 12	400k	400k
Medical Systems Biology (MedSys), subproject SARA – Systems biology of (human platelet) ADP receptor antagonists, subproject H	BMBF	NA	Jan 10	Dec 12	50k	30k

Third-party funding - Industry

Project title	Funding institution	FKZ	Duration		Total [€]
			from	- to	
FINEARTS-HF Laboratory contract	Bayer AG	21_1100	Nov 24	Dec 26	910k
FINEARTS-HF Biobanking	Bayer AG	22_1076	Dec 22	Dec 26	15k

Third-party funding

Project title	Funding institution	FKZ	Duration		Total [€]
			from	- to	
MyoMobile Study. A randomized parallel group study to investigate the effects of individualized app-based coaching on physical activity and myocardial and vascular function of patients with heart failure and preserved ejection fraction compared to standard care (Supplementary agreement)	Bayer AG	22_0838	Sep 22	Dec 23	210k
Research and cooperation agreement Gutenberg Health Study 2022-2027	TRON gGmbH	22_1127	Jun 22	Mai 27	1,70 Mio.
Research and cooperation agreement Gutenberg Health Study, Study phase II (Supplementary agreement)	Boehringer Ingelheim International GmbH	22_0337	Apr 22	Jan 27	300k
Relationship between the development and progression of heart failure and chronic kidney disease in relation to the presence of type 2 diabetes mellitus	Boehringer Ingelheim International GmbH	22_0187	Mar 22	Dec 23	25k
Genomic atlas of the GHS periphery proteome (Olink Explore 3072)	Boehringer Ingelheim International GmbH	22_0156	Feb 22	Feb 25	950k
Multi-omics genetics for increased accuracy in health outcomes (low pass sequencing)	Boehringer Ingelheim International GmbH	21_1165	Oct 21	Dec 22	70k
Long-read based pheno-/genotype association discovery in the context of human disease (nanopore sequencing)	Boehringer Ingelheim International GmbH	21_0294	Mar 21	Dec 22	13k
MyoMobile Study. A randomized parallel group study to investigate the effects of individualized app-based coaching on physical activity and myocardial and vascular function of patients with heart failure and preserved ejection fraction compared to standard care	Bayer AG	20_0827	Oct 20	Mar 22	2,16 Mio.
MyoVasc AD. Identification and evaluation of new and established biochemical, functional and electrophysiological markers of autonomic cardiac dysfunction in patients with manifest or latent heart failure (extension of the analysis plan)	Bayer AG	22_0717	Aug 20	Jun 24	2,43 Mio.

Third-party funding

Project title	Funding institution	FKZ	Duration		Total [€]
			from	- to	
MyoVasc AD. Identification and evaluation of new and established biochemical, functional and electrophysiological markers of autonomic cardiac dysfunction in patients with manifest or latent heart failure	Bayer AG	19_1397	Jan 20	Sep 22	2,00 Mio.
The role of inflammation in the pathogenesis of heart failure - a molecular characterisation including metabolic dysfunction	Novartis Pharma GmbH	18_1390	Dec 18	Dec 20	210k
Evaluation of Factor XI(a) Assays in the Clinical Setting of VTE	Bayer AG	18_0425	Dec 18	Dec 20	90k
Genome-wide determination of single nucleotide polymorphisms (SNPs) in individuals of the population-based Gutenberg Health Study	Boehringer Ingelheim International GmbH	18_0561	May 18	Dec 18	1,41 Mio.
GMP-VTE Projekt. Research contract (Biobanking, Genotyping, Proteomics)	Bayer AG	17_0240	Apr 18	Apr 22	822k
Research and cooperation agreement Gutenberg Health Study, Study phase II	Boehringer Ingelheim International GmbH	17_0204	May 17	Apr 22	4,08 Mio.
Evaluation of the Impact of Renine and Aldosterone Concentrations on Cardiovascular Disease in the Population (2014-2015)	DiaSorin Deutschland GmbH	16_0259	Aug 16	Feb 18	80k
EmDia. A phase IV, single-center, German, randomized, double-blind, placebo-controlled, parallel group study on the effects of empagliflozin on left ventricular diastolic function compared to usual care in individuals with type 2 diabetes	Boehringer Ingelheim International GmbH	16_0215	Jun 16	Jun 20	1,29 Mio.
GMP-VTE Projekt. Platelet function testing in Acute Pulmonary Embolism	Bayer AG	15_0070	Nov 15	Dec 20	240k
FOCUS BioSeq Research contract (Study impementation)	Bayer AG	17_0044	Dec 14	Oct 20	360k
FOCUS BioSeq Research contract (Genotypisierung)	Bayer AG	14_0492	Dec 14	Apr 18	120k
D-dimer DVT/OE Exclusionary Sample Collection Project	Siemens	14_0043	Apr 14	Jan 15	90k
ThrombEVAL-Study. Analysis of bridging therapy with LMWH	Sanofi-Aventis Deutschland GmbH	12_0875	Jan 13	Dec 13	100k

Third-party funding

Project title	Funding institution	FKZ	Duration		Total [€]
			from	- to	
Research and cooperation agreement Gutenberg Health Study	Boehringer Ingelheim International GmbH	12_0748	Apr 12	Apr 17	3,57 Mio.
thrombEVAL Research contract	Boehringer Ingelheim Pharma GmbH & Co. KG	NA	Jan 11	Dec 12	60k
thrombEVAL Research contract	Portavita BV	NA	Jan 11	Dec 12	20k
thrombEVAL Research contract	BayerVital GmbH	NA	Jan 11	Dec 12	80k
TEAMSTA. A telmisartan and amlodipine study to assess the cardiovascular protective effects as measured by endothelial dysfunction in hypertensive at risk patients beyond blood pressure	Boehringer Ingelheim International GmbH	NA	Jul 10	Jun 14	1,96 Mio.

Third-party funding – Foundations and donations

Project title	Funding institution	Duration		Total [€]	Share [€]
		from	- to		
Clinical and Molecular Characterization of People Aged Over 90 – The Gutenberg Healthy Ageing Study	G. und I. Leifheit Stiftung	May 25	Dez 26	400k	394k
Gutenberg Health Study	Stiftung Mainzer Herz	Jun 24	Jun 24	25k	25k
Robert-Müller-Wissenschaftspreis 2022 (Prochaska)	Robert Müller-Stiftung	Nov 22	Nov 22	5k	5k
Cancer Prevention – Graduate School (CPGS) – Application “Biomarkers for Early Detection”: Development and evaluation of a novel biomarker panel for early detection of lung cancer and personalized intervention strategies	Deutsche Krebshilfe (DKH)	Q4 22	Q4 25	390k	210k
Protein signatures for the prediction of sudden cardiac death	Hans Berkessel, Vorsitzender des Instituts für Geschichtliche Landeskunde an der Universität Mainz	Apr 22	Dec 22	5k	5k

Third-party funding

Project title	Funding institution	Duration		Total [€]	Share [€]
		from	- to		
Research Fellowship. Systemic inflammation and autoimmunity in the development and progression of cardiovascular diseases (Müller)	Stiftung Mainzer Herz	Feb 22	Jan 23	40k	40k
Gutenberg COVID-19 Study	Stiftung Mainzer Herz	Jul 21	Jun 22	50k	50k
Gutenberg Health Study. Science award	Stiftung Mainzer Herz	Nov 19	Nov 19	200k	200k
Klinischer Forschungspreis (Panova-Noeva)	Stiftung Mainzer Herz	Nov 15	Nov 15	5k	5k
Klinischer Forschungspreis (Prochaska)	Stiftung Mainzer Herz	Nov 14	Nov 14	5k	5k
Klinischer Forschungspreis 2013	Stiftung Mainzer Herz	Nov 13	Nov 13	5k	5k
Gutenberg Health Study	Stiftung Mainzer Herz	May 13	Jun 22	190k	190k
Gutenberg Health Study	Stiftung Mainzer Herz	Dec 11	Oct 21	130k	130k

Intramural funding

Project title	Funding institution	Duration		Total [€]	Share [€]
		from	- to		
Gutenberg Health Study 2022-2027	Medizinische Fakultät	Jun 22	May 27	2,50 Mio.	2,50 Mio.
Gutenberg Health Study 2022-2027	Forschungsinitiative JGU	Jun 22	May 24	1.20 Mio	1.20 Mio
Gutenberg Health Study 2022-2027	CTVB	Jun 22	May 27	690k	690k
Gutenberg Health Study 2022-2027	1. Medizinische Klinik	Jun 22	May 27	500k	500k
Gutenberg Health Study 2022-2027	Augenklinik	Jun 22	May 27	500k	500k
Gutenberg Health Study 2022-2027	Psychiatrie	Jun 22	May 27	500k	500k
Gutenberg Health Study 2022-2027	Psychosomatik	Jun 22	May 27	500k	500k
Gutenberg Health Study 2022-2027	Zentrum für Kardiologie	Jun 22	May 27	500k	500k
Gutenberg Health Study 2022-2027	CTH	Jun 22	May 27	500k	500k
Gutenberg Health Study 2022-2027	Laboratoriumsmedizin	Jun 22	May 27	500k	500k
Gutenberg Health Study 2022-2027	IMBEI	Jun 22	May 27	330k	330k
Gutenberg Health Study 2022-2027	Dermatologie	Jun 22	May 27	250k	250k
Gutenberg Health Study 2022-2027	HNO	Jun 22	May 27	250k	250k
Gutenberg Health Study 2022-2027	UCT	Jun 22	May 27	250k	250k
AgeGain T3-Body	Klinik für Psychiatrie und Psychotherapie	Feb 22	Dec 22	40k	40k
ReAlity-HBBA Targeted Proteomics Analysen	Psychiatrie	Nov 21	Dec 22	100k	100k
Analysis of the Heart Failure Syndrome and DNA methylation - Science of Healthy Ageing Research Programme (SHARP)	Institut für Molekulare Biologie gGmbH	Apr 21	Mar 24	90k	90k

Third-party funding

Project title	Funding institution	Duration		Total [€]	Share [€]
		from	- to		
EpiHF. Pathophysiology related to epigenetic modifications in individuals with heart failure - Generating a population reference set for methylation analyses (ReALity P6 Wild)	ReALity Innovation Fund – JGU Mainz	Apr 21	Dec 23	490k	390k
Psoriasis II Prof. Staubach-Renz	Hautklinik	Jan 21	Dec 21	10k	10k
Myocarditis – Prof. Nagel	Universitätsklinikum Frankfurt	Dec 20	Dec 21	350k	350k
GCS-based cell bank from peripheral blood mononuclear cells (PBMC) as part of the ReALity initiative (GCS cell bank)	ReALity Innovation Fund – JGU Mainz	Sep 20	Jun 21	550k	550k
Subclinical and molecular epidemiology of venous thromboembolism (Virchow Fellowship Klinische Epidemiologie)	CTH	May 20	May 21	10k	10k
Gutenberg Health Study 2017-2022	HNO	Apr 20	Apr 22	150k	150k
Gutenberg Health Study 2017-2022	Dermatologie	Apr 19	Apr 22	200k	200k
Bone marrow biomarker measurements of patients with ischaemic (ICM) or dilated cardiomyopathy (DCM)– Prof. Zeiher	Universitätsklinikum Frankfurt	Aug 18	Dec 19	20k	20k
Gutenberg Health Study 2017-2022	Medizinische Fakultät	Apr 17	Apr 22	2,90 Mio.	2,90 Mio.
Gutenberg Health Study 2017-2022	CTVB	Apr 17	Apr 22	1,31 Mio.	1,31 Mio.
Gutenberg Health Study 2017-2022	Augenklinik	Apr 17	Apr 22	620k	620k
Gutenberg Health Study 2017-2022	Zentrum für Kardiologie	Apr 17	Apr 22	620k	620k
Gutenberg Health Study 2017-2022	Impulsfonds	Apr 17	Apr 19	610k	610k
Gutenberg Health Study 2017-2022	Laboratoriumsmedizin	Apr 17	Apr 22	600k	600k
Gutenberg Health Study 2017-2022	Psychosomatik	Apr 17	Apr 22	520k	520k
Gutenberg Health Study 2017-2022	IMBEI	Apr 17	Apr 22	400k	400k

Third-party funding

Project title	Funding institution	Duration		Total [€]	Share [€]
		from	- to		
Gutenberg Health Study 2017-2022	UCT	Apr 17	Apr 22	300k	300k
Gutenberg Health Study 2017-2022	CTH	Apr 17	Apr 22	300k	300k

Promotion of young talents and teaching

Overview of supervision of junior researchers

Completed work

Medical doctoral students	44
Doctoral students in natural sciences	7
Diploma and master's degrees	8

Currently supervised works

Doctorate with degree Dr. med	14
Doctorate with degree Dr. rer. physiol.	4
Doctorate with PhD degree	16
Master theses Epidemiology with degree M.Sc.	3

Completed work

Medical doctoral students

Dr. med. Christina Thomas	(magna cum laude, 2012)
Dr. med. Simon Diestelmeier	(magna cum laude, 2013)
Dr. med. Stefanie Herkenhoff	(magna cum laude, 2013)
Dr. med. Sven-Oliver Tröbs	(magna cum laude, 2014)
Dr. med. Anne Kathrin Schwalbach	(cum laude, 2016)
Dr. med. Christoph Hausner	(magna cum laude, 2016)
Dr. med. dent. Zaid Al-Bayati	(cum laude, 2016)
Dr. med. Ronja Schmitz	(cum laude, 2017)
Dr. med. Stephanie Herold	(magna cum laude, 2017)
Dr. med. Arne Deiseroth	(magna cum laude, 2018)
Dr. med. Christina Essers	(cum laude, 2018)
Dr. med. Friederike Schäfer	(cum laude, 2018)
Dr. med. Oliver Reinhard	(magna cum laude, 2018)
Dr. med. Sabrina Buchrucker	(magna cum laude, 2018)
Dr. med. Andreas Stöhr	(magna cum laude, 2019)
Dr. med. Daniel Richter	(cum laude, 2019)
Dr. med. Maren Peifer	(magna cum laude, 2019)
Dr. med. Paul Ludolph	(magna cum laude, 2019)
Dr. med. Sabrina Kopp	(magna cum laude, 2019)
Dr. med. Tanja Eichkorn	(summa cum laude , 2019)
Dr. med. Andrea Daubenbüchel	(magna cum laude, 2020)

Promotion of young talents and teaching

Dr. med. Andrea Falcke	(magna cum laude, 2020)
Dr. med. Anika Gündling	(cum laude, 2020)
Dr. med. Anja Leuschner	(cum laude, 2020)
Dr. med. Anna-Maria Billaudelle	(cum laude, 2020)
Dr. med. Annegret Föll	(cum laude, 2020)
Dr. med. Evgenia Pefani	(cum laude, 2020)
Dr. med. Felix Müller	(summa cum laude , 2020)
Dr. med. Florian Geyer	(magna cum laude, 2020)
Dr. med. Jana Blecker	(cum laude, 2020)
Dr. med. Jaume Lerma Monteverde	(cum laude, 2020)
Dr. med. Leonie Schleuter	(cum laude, 2020)
Dr. med. Miriam Michler-Abo Mostafa	(cum laude, 2020)
Dr. med. Sarah Matheis	(magna cum laude, 2020)
Dr. med. Tina Ernst	(cum laude, 2020)
Dr. med. Torben Knöpfler	(magna cum laude, 2020)
Dr. med. Mario Klaas	(cum laude, 2021)
Dr. med. Michael Baier	(magna cum laude, 2021)
Dr. med. Steffen Heltsche	(cum laude, 2021)
Dr. med. Philipp Neumann	(cum laude, 2022)
Dr. med. Cornelia Priessnitz	(cum laude, 2022)
Dr. med. Lena Schnauder	(magna cum laude, 2024)
Dr. med. Sophie Moll	(summa cum laude , 2024)
Dr. med. Judith Birth	(magna cum laude, 2024)

Doctoral students in life sciences

Dr. rer. physiol. Andreas Schulz	(magna cum laude, 2018)
Dr. rer. physiol. Lisa Eggebrecht	(summa cum laude , 2020)
Dr. rer. physiol. Bianca Dahlen	(magna cum laude, 2023)

Vincent ten Cate, PhD	(2019, Universität Maastricht)
Pauline van Paridon, PhD	(2022, Universität Maastricht)
Alejandro Pallares Robles, PhD	(2024, Universität Maastricht)
Gaukhar Baidildinova, PhD	(2024, Universität Maastricht)

Diploma and master's degrees

Kateryna Karimova, M.Sc.	(2013, Masterstudium Epidemiologie)
Andrea Daubenbüchel, M.Sc.	(2014, Masterstudium Epidemiologie)
Kristina Papp, M.Sc.	(2014, Masterstudium Epidemiologie)
Thi Huong Lan Do, M.Sc.	(2016, Masterstudium Epidemiologie)
Yvonne Kirschner, M.Sc.	(2017, Masterstudium Epidemiologie)
Claudia Drossard, M.Sc.	(2020, Masterstudium Epidemiologie)
Rieke Baumkötter, M.Sc.	(2021, Masterstudium Epidemiologie)

Dipl.-Psych. Kristina Papp	(2014, Diplomstudiengang Psychologie)
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Promotion of young talents and teaching

Acquisition of academic positions with equipment

Year	Position	Funding institution
2015	Juniorgruppe Clinical epidemiology of thrombocytes, 5 years	BMBF
2015	Juniorgruppe Clinical empdemiology-thrombosis, 5 years	BMBF
2014	DZHK-W3-Professor Myocardial and vascular interaction, 6 years	BMBF
2020	DZHK-W2-Professor "Clinical epidemiology of heart failure", 6 years	BMBF
2019	W1-Professor Copmutational Systems Medicine (DIASyM), Tenure Track	BMBF

Biobanking and research laboratories

BioBank Mainz – Ressource for translational research

BioBank Mainz at the Mainz University Medical Center is one of Germany's largest university biobanks for human biosamples. It offers partners within and outside the University Medical Center Mainz support in archiving, managing and analyzing biosamples. BioBank Mainz was founded through the merger of the Tissue Biobank (Prof. Roth, Pathology) and the Liquid Biobank (Prof. Wild). The Biobank Mainz has been storing a wide range of biomaterials (including blood, urine, tear fluid, stool, cells, DNA, cerebrospinal fluid) for over 15 years. In addition, it contains a population-based cell bank of more than 10,000 people as a unique selling point. Currently, >150,000 tissue samples and >10 million biosamples of fluids and cells are stored in the Mainz Biobank. These are assigned to around 120 projects from all disciplines, the majority of which are projects operated, coordinated and managed by the Clinical Epidemiology and Systems Medicine department (P. Wild). There is a continuous annual growth of approx. 5-10 projects and an average of 750,000 biosamples. The continuous development of the interdisciplinary biobank has already led to a large number of multidisciplinary interactions with academic and industrial partners in recent years.

The Liquid Biobank (Manager: Dr rer. nat. S. Rapp) includes the Gutenberg Health Study lighthouse project (N=15,000), the biobank of a population-based cohort with biomaterials stored continuously at 5-year intervals, as well as biobanks of various disease-related cohorts (currently N=30). Highly standardised processes (defined in SOPs) including detailed quality management have been established for all work steps from sample preparation to storage. The continuous monitoring of all pre-analytical processes, a mirrored and multi-centre biobank storage facility with 24/7/365 monitoring and 24-hour on-call service, the infrastructure for multi-centre biobanking and an efficient sample management system in combination with CentraXX as a central database are special quality features of Biobank Mainz. BioBank Mainz has been a member of the national "German Biobank Alliance" (GBA, <https://www.bbmri.de>) and the European network "Biobanking and Biomolecular Resources Research Infrastructure - European Research Infrastructure Consortium" (BBMRI-ERIC) since 2020. In this network of excellence of international biobanks, there is close networking between the alliance partners, harmonisation of quality management and the establishment of a networked IT structure to make human biosamples and the associated data available for biomedical research throughout Europe.

Biobanking and research laboratories

Research laboratories

Multi-omics analysis platforms for in-depth molecular analysis of biosamples in high-throughput procedures using state-of-the-art technology are available in the research laboratories of the working group. These include

Protein laboratory (Head: Dr rer. nat. T. Koeck). The immuno-PCR and immuno-NGS platforms enable high-throughput phenotyping for the analysis of protein signatures by means of the targeted quantification of up to 3,000 proteins in a few microlitres of biomaterial of various qualities (e.g. blood, urine, cerebrospinal fluid, tissue lysate). This platform is certified by the manufacturer as an official analysis site and has been established as a "Shared Expertise" (SE175) platform at the German Centre for Cardiovascular Research (DZHK). In a complementary role, the working group leads the DIASyM project (together with Prof. S. Tenzer), one of 4 national BMBF-funded research cores for mass spectrometry in systems medicine, which extends high-throughput phenotyping at the protein level, particularly to proteins that cannot be detected by immunodetection. The protein signatures generated in this way enable the most detailed molecular characterisation of the human proteome currently available. In this research network, there are also close collaborations with working groups that carry out further mass spectrometric biosample analyses (Lipidomics-Unit, Dr Bindila; Metabolomics, Jun.-Prof. Dr T. Schmidtlin).

Nucleic acid analysis (Head: Dr rer. nat. S. Rapp). The working group has laboratories for processing and analysing mRNA (transcriptomics) and DNA (genetics). In collaboration with the University of Bonn, epigenetic and genetic analyses of biosamples are carried out in high-throughput.

Single cell sequencing (Head: Jun.-Prof. Dr E. Araldi, PhD). The newly established single-cell sequencing platform (co-financed by DZHK and own funds) is available as a new technology for cell-based analyses. In single-cell sequencing, the sequence information of individual cells is examined using optimised sequencing technologies, which enables a higher resolution of cellular differences and a better understanding of the function of specific cell groups in the context of their microenvironment.

Platelet laboratory (Head: PD Dr rer. nat. K. Jurk). In addition to traditional platelet aggregometry, the platelet function laboratory offers modern methods for the detailed ex vivo and in vitro investigation of the activation and functional capacity of singular platelets (flow cytometry), platelet-based thrombin generation/coagulation (calibrated automated thrombography), the interaction of platelets with other blood and vascular cells, migration and thrombus formation in real time under flow conditions (integrated BioFlux flow chamber system), as well as platelet protein composition and post-translational modifications (LC-MS-based quantitative platelet proteome and phosphoproteome analysis in cooperation with the Leibniz Institute for Analytical Sciences - ISAS - e. V., Berlin). V., Prof A. Sickmann, Dortmund).

The combination of these multi-omics data enables the exceptionally comprehensive investigation of cardiovascular diseases, among others.

Biodatabases and clinical studies

Overview cardiovascular biodatabases

Study	Case number (N)	Indication	Role	Duration	
				from	- to
SentiSurv RLP	19,000	Incidence of the SARS-CoV-2 virus	PI	2022	2024
EmDia	144	Effects of SGLT2 inhibition (empagliflozin) on left ventricular diastolic dysfunction in patients with T2DM	Coordinating PI	2021	2021
AgeGain	111	Ageing, resilience	PI	2021	2022
Gutenberg Long COVID Study	~100	Sequelae of COVID-infection	Coordinating PI	2021	ongoing
Gutenberg COVID-19 Study	10,250	Effects of possible SARS-CoV-2-infections und COVID-19	Coordinating PI	2020	ongoing
MyoMobile	165	Heart failure, physical activity	Coordinating PI	2020	2023
ProsPECTUS	2,700	Acute coronary syndrome	Coordinating PI	2014	ongoing
FOCUS Bioseq	346	Multicenter biobanking study, venous thromboembolism	Coordinating PI	2014	ongoing
CVSS	1,016	Survivors of childhood cancer	Coordinating PI	2013	ongoing
MyoVasc	3,289	Heart failure	Coordinating PI	2012	ongoing
VTEval	1,450	Venous thromboembolism	Coordinating PI	2012	ongoing
INTERVENT	557	Structural heart disease	Coordinating PI	2012	ongoing
thrombEVAL-Studyprogramme	2,011	Oral anticoagulation	Coordinating PI	2010	ongoing
Gutenberg Tako-Tsubo Study	16	Tako-Tsubo Cardiomyopathy	Coordinating PI	2009	ongoing
Gutenberg Myocardinfarkt Study	340	Myocardial infarction in persons <50 years of age	Coordinating PI	2008	ongoing
Gutenberg Psoriasis Study	123	Psoriasis	Coordinating PI	2008	ongoing
Gutenberg Health Study	18,746	Population-based cohort study	Coordinating PI	2007	ongoing
Prevent-it Study	548	Cardiovascular diseases in people aged 20 to 80 years	Coordinating PI	2006	2007

Biobanking and research laboratories

Study	Case number (N)	Indication	Role	Duration from - to	
AtheroPrevalence	300	Subclinical atherosclerosis in students	Coordinating PI	2006	2006

Biobanking and research laboratories

Biodatabases – external

Study	Case number (N)	Institution
Carotis / Norma	128	Center for Cardiology, Cardiology III (Mainz)
DYNAMORE	41	NIC, Raffael Kalisch (Mainz)
DZHK-APPROACH	35	Reza Wakili, Steffen Massberg (Munich)
DZHK-Basis	300	German Centre for Cardiovascular Research (Berlin)
DZHK-CAVA-ADHF	29	Alexander Jobs (Lübeck), Holger Thiele
DZHK-Decipher HFpEF	25	Eike Nagel (Frankfurt)
DZHK-DEDICATE	5	Stefan Blankenberg, Moritz Seiffert (Hamburg)
DZHK-FAIR-HF2	60	Mahir Karakas (Hamburg), Stefan Anker (Berlin)
DZHK-SMART-MI	58	Axel Bauer, Stefan Kääb, Steffen Massberg (Munich)
DZHK-Spirit-HF	45	Burkert Pieske, Frank Edelmann (Berlin)
DZHK-TORCH plus	120	TranslatiOnal Registry for CardiomyopatHies
DZHK-TORCH	113	Cardiomyopathies
DZHK-Transition CHF	25	Systolic dysfunction, transitional heart failure
Gutenberg Brain Study	2,850	FTN Rhein-Main-Neuronetzwerk, CIC (rmn2), Klaus Lieb (Mainz)
MARP	207	NIC, Raffael Kalisch (Mainz)
MARP-COVID-19	33	NIC, Raffael Kalisch (Mainz)
Ophthalmic	597	Ophtalmological clinic and polyclinic, Achim Fiess (Mainz)
Penta	80	Center for Cardiology (Mainz)
PHYREM	142	CTH, Stavros Konstantinides (Mainz)
RVO Study	103	Ophtalmological clinic and polyclinic, Katharina Ponto (Mainz)
TEACH	23	Clinic and Polyclinic for Psychosomatic Medicine and Psychotherapy, Matthias Michal (Mainz)

Clinical studies

Study	Indication	Role/ function	Phase	Duration from - to	
Amgen 20210057	A Multicenter, Cross-sectional Study to Characterze the Distribution of Lipoprotein(a) Levels Among Patients With Documented History of Atherosclerotic Cardiovascular Disease (ASCVD)	PI	-	2022	2023
Victorion Difference	Efficacy, safety, tolerability and quality of life of ongoing individually optimized lipid-lowering therapy with or without inclisiran (KJX839) – a randomized, placebo-controlled, double-blind multicenter phase IV study in participants with hypercholesterolemia	PI	IV	2022	Currently ongoing
SANTORINI	Treatment for High and Very high risk dyslipidemic pAtients for the PreveNTion of CardiOvasculaR Events in Europe a MultinatioNal Obersational Study	PI	-	2021	Currently ongoing
MyoMobile	Heart failure, physical activity	Coord. PI	-	2020	2023
EMDIA	Empagliflozin, Type-2-Diabetes, Diastolic dysfunction	LKP	IV	2016	2020
TEAMSTA protect	Arterielle Hypertonie A TELmisartan and AMLodipine SStudy to Assess the cardio vascular PROTECTive effects by endothelial dysfunction in hypertensive at risk patients beyond blood pressure	LKP	IV	2010	2011
INEF (Merk Pharma)	Coronary heart disease - endothelial dysfunction	Examiner	IIIb	2006	2006
Omega (Trommsdorff GmbH & Co KG Arzneimittel)	Myocardial infarction	Examiner	III	2004	09/05
ExTRACT TIMI 25 (Aventis Pharma)	Myocardial infarction	Examiner	III	2003	09/05

References

Study	Indication	Role/ function	Phase	Duration from - to	
LK 565 (Dr .F. Köhler Chemie)	Contrast echocardiography	Examiner	II	2003	2004
Sirius (Cardiopep Pharma)	Decompensated heart failure	Examiner	II	2003	2004
CIBIS III (Merk Pharma)	Heart failure	Examiner	IV	2002	04/05
ESSENTIAL My-021/My- 026 (Myogen)	Terminal heart failure	Examiner	III	2002	09/05
IRIS (Medtronic)	Myocardial infarction	Examiner	III	2002	09/05
YUCON (Translumina GmbH)	Coronary heart disease	Examiner	III	2002	2004
Melitrast (Dr. F. Köhler Chemie)	Coronary heart disease	Examiner	III	2002	2003
GRACE ² Register (Aventis Pharma)	Acute coronary syndrome	Examiner	-	2002	05/05