

Advancing cardiovascular research with Thermo Scientific™ Mass Spectrometry

Research publications

[Plasma metabolomics reveals the shared and distinct metabolic disturbances associated with cardiovascular events in coronary artery disease](#)

Lv J, Pan C, Cai Y, Han X, Wang C, Ma J, Pang J, Xu F, Wu S, Kou T, Ren F, Zhu ZJ, Zhang T, Wang J, Chen Y.

Nat Commun. 2024 Jul 8;15(1):5729.

[Mass spectrometry for the study of adipocyte cell secretome in cardiovascular diseases](#)

Gianazza E, Brioschi M, Eligini S, Banfi C

Mass Spectrom Rev. 2024 Jul-Aug;43(4):752-781.

[Untargeted metabolomics reveals potential plasma biomarkers for diagnosis of primary aldosteronism using liquid chromatography-mass spectrometry](#)

Song JJ, Cai J, Ma WJ, Lou Y, Bian J, Zhao B, She X, Liu XN.

Biomed Chromatogr. 2024 Jun;38(6):e5855.

[Integrating Clinical Phenotype With Multiomics Analyses of Human Cardiac Tissue Unveils Divergent Metabolic Remodeling in Genotype-Positive and Genotype-Negative Patients With Hypertrophic Cardiomyopathy](#)

Nollet, E. E., Schuldt, M., Sequeira, V., Binek, A., Pham, T. V., Schoonvelde, S. A. C., Jansen, M., Schomakers, B. V., van Weeghel, M., Vaz, F. M., Houtkooper, R. H., Van Eyk, J. E., Jimenez, C. R., Michels, M., Bedi, K. C., Margulies, K. B., dos Remedios, C. G., Kuster, D. W. D., & van der Velden, J

Circulation: Genomic and Precision Medicine, 17(3), 238-253.

[Tissue Usage Preference and Intrinsically Disordered Region Remodeling of Alternative Splicing Derived Proteoforms in the Heart](#)

Pandi B, Brenman S, Black A, Ng DCM, Lau E, Lam MPY.

J Proteome Res. 2024 Aug 2;23(8):3161-3173

[The GENTIL Method for Isolation of Human Adult Cardiomyocytes from Cryopreserved Tissue for Proteomic Analyses.](#)

Waknitz M, Berg Luecke L, Mesidor R, Wojtkiewicz M, Castro C, Gundry RL.

Methods Mol Biol. 2024;2735:145-167.

[Proteomic analysis of plasma proteins from patients with cardiac rupture after acute myocardial infarction using TMT-based quantitative proteomics approach](#)

Hou J, Deng Q, Qiu X, Liu S, Li Y, Huang C, Wang X, Zhang Q, Deng X, Zhong Z, Zhong W.

Proteomics. 2024 Mar 1;21(1):18.

[A plasma proteomic approach in patients with heart failure after acute myocardial infarction: insights into the pathogenesis and progression of the disease](#)

Liu Y, Huang D, Li Z, Zhou L, Cen T, Wei B, Wei L, Wu H, Su L, Sooranna SR, Pan X, Huang Z.

Front Cardiovasc Med. 2023 May 17;10:1153625.

[Quantitative proteomics reveal three potential biomarkers for risk assessment of acute myocardial infarction](#)

Xie Y, Zhang H, Huang T.

Bioengineered. 2022 Mar;13(3):4939-4950.

[Proteomic Analysis of Cardiac Adaptation to Exercise by High Resolution Mass Spectrometry](#)

Al-Menhali AS, Anderson C, Gourine AV, Abramov AY, D'Souza A, Jaganjac M.

Front Mol Biosci. 2021 Sep 1;8:723858.

Review Articles

[Proteomics of the heart](#)

Karpov OA, Stotland A, Raedschelders K, Chazarin B, Ai L, Murray CI, Van Eyk JE

Physiol Rev. 2024;104:931-982.

[An inflection point in high-throughput proteomics with Orbitrap Astral: analysis of biofluids, cells, and tissues](#)

Hendricks NG, Bhosale SD, Keoseyan AJ, Ortiz J, Stotland A, Seyedmohammad S, Nguyen CDL, Bui J, Moradian A, Mockus SM, Van Eyk JE.

J Proteome Res. 2024 Sep 6;23(9):4163-4169

[Novel insights about albumin in cardiovascular diseases: Focus on heart failure](#)

Zoanni B, Brioschi M, Mallia A, Gianazza E, Eligini S, Carini M, Aldini G, Banfi C.

Mass Spectrom Rev. 2023 Jul-Aug;42(4):1113-1128.

[Multiomics Network Medicine Approaches to Precision Medicine and Therapeutics in Cardiovascular Diseases](#)

Wang RS, Maron BA, Loscalzo J.

Arterioscler Thromb Vasc Biol. 2023 Apr;43(4):493-503.

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