

PUBLICATIONS, POSTERS, TALKS, REVIEWING

PUBLICATIONS

Equal, shared first authorships are marked with *

2025

Traeuble K., **Munz M** et al. (2025) Integrated single-cell atlas of human atherosclerotic plaques. *Nature Communications*. PMID: 34887591 doi: [10.1038/s41467-025-63202-x](https://doi.org/10.1038/s41467-025-63202-x)

Smit RAJ et al. (2025) Polygenic prediction of body mass index and obesity through the life course and across ancestries. *Nature Medicine*. PMID: 40691366 doi: [10.1038/s41591-025-03827-z](https://doi.org/10.1038/s41591-025-03827-z)

2022

Yengo L et al. (2022) The power of genetic diversity in genome-wide association studies of lipids. *Nature*. PMID: 34887591 doi: [10.1038/s41586-021-04064-3](https://doi.org/10.1038/s41586-021-04064-3)

Aragam KG et al. (2022) Discovery and systematic characterization of risk variants and genes for coronary artery disease in over a million participants. *Nat Genetics*. PMID: 34887591 doi: [10.1038/s41586-021-04064-3](https://doi.org/10.1038/s41586-021-04064-3)

Ramdas S et al. (2022) A multi-layer functional genomic analysis to understand noncoding genetic variation in lipids. *American J Hum Genet*. PMID: 35931049 doi: [10.1016/j.ajhg.2022.06.012](https://doi.org/10.1016/j.ajhg.2022.06.012)

Kanoni S et al. (2022) Implicating genes, pleiotropy and sexual dimorphism at blood lipid loci through multi-ancestry meta-analysis. *Genome Biol*. PMID: 36575460 doi: [10.1186/s13059-022-02837-1](https://doi.org/10.1186/s13059-022-02837-1)

2021

Graham SE et al. (2021) The power of genetic diversity in genome-wide association studies of lipids. *Nature*. PMID: 34887591 doi: [10.1038/s41586-021-04064-3](https://doi.org/10.1038/s41586-021-04064-3)

Freitag-Wolf S, **Munz M** et al. (2021) Sex-specific genetic factors affect the risk of early-onset periodontitis. *J Clin Periodontol*. PMID: 34409643 doi: [10.1111/jcpe.13538](https://doi.org/10.1111/jcpe.13538)

Ramzan S et al. (2021) A novel missense mutation in TNNI3K causes recessively inherited cardiac conduction disease in a consanguineous Pakistani family. *Genes*. PMID: 34440456 doi: [10.3390/genes12081282](https://doi.org/10.3390/genes12081282)

Salviano-Silva et al. (2021) Genetic association and differential expression of HLA Complex Group lncRNAs in pemphigus. *J Autoimmun*. PMID: 34325306 doi: [10.1016/j.jaut.2021.102705](https://doi.org/10.1016/j.jaut.2021.102705)

Munz M*, Khodaygani M* et al. (2021) In silico candidate variant and gene identification using inbred mouse strains. *PeerJ*. PMID: 33763305 doi: [10.7717/peerj.11017](https://doi.org/10.7717/peerj.11017)

Zeng L et al. (2021) Cis-epistasis at the LPA locus and risk of cardiovascular diseases. *Cardiovasc Res*. PMID: 33878186 doi: [10.1093/cvr/cvab136](https://doi.org/10.1093/cvr/cvab136)

2020

Munz M et al. (2020) QTLizer: comprehensive QTL annotation of GWAS results. *Sci Rep*. PMID: 33235230 doi: [10.1038/s41598-020-75770-7](https://doi.org/10.1038/s41598-020-75770-7)

Wohlers I, Kuenstner A, **Munz M** et al. (2020) An integrated personal and population-based Egyptian genome reference. *Nat Commun*. PMID: 32948767 doi: [10.1038/s41467-020-17964-1](https://doi.org/10.1038/s41467-020-17964-1)

Wienbergen A et al. (2020) New Technologies for Intensive Prevention Programs After Myocardial Infarction – Rationale and Design of the NET-IPP-Study *Clin Res Cardiol*. PMID: 32734504 doi: [10.1007/s00392-020-01695-w](https://doi.org/10.1007/s00392-020-01695-w)

Nashef A*, **Munz M*** et al. (2020) Translation of mouse model to human gives insights into periodontitis etiology. *Sci Rep*. PMID: 32184465 doi: [10.1038/s41598-020-61819-0](https://doi.org/10.1038/s41598-020-61819-0)

Zheng Y et al. (2020) Mendelian randomization analysis does not support causal associations of birth weight with hypertension risk and blood pressure in adulthood *Eur J Epidemiol*. PMID: 32383070 doi: [10.1007/s10654-020-00638-z](https://doi.org/10.1007/s10654-020-00638-z)

2019

Wienbergen H et al. (2019) P6214 How to improve long-term prevention in young patients after myocardial infarction - the IPP-Y study *Eur Heart J*. PMID: 2019 doi: [10.1093/eurheartj/ehz746.0819](https://doi.org/10.1093/eurheartj/ehz746.0819)

Freitag-Wolf S*, **Munz M*** et al. (2019) Smoking Modifies the Genetic Risk for Early-Onset Periodontitis. *J Dent Res*. PMID: 31537151 doi: [10.1177/0022034519875443](https://doi.org/10.1177/0022034519875443)

Clark D et al. (2019) Associations of autozygosity with a broad range of human phenotypes *Nat Commun*. doi: [10.1038/s41467-019-12283-6](https://doi.org/10.1038/s41467-019-12283-6)

Richter GM, Kruppa J, **Munz M** et al. (2019) A combined epigenome- and transcriptome-wide association study of the solid oral mucosa assigns CYP1B1 a central role for epithelial health in smokers. *Clin Epigenetics*. PMID: [31331382](https://pubmed.ncbi.nlm.nih.gov/31331382/) doi: [10.1186/s13148-019-0697-y](https://doi.org/10.1186/s13148-019-0697-y)

Kessler T et al. (2019) Association of the coronary artery disease risk gene GUCY1A3 with onaspirin platelet reactivity and ischemic events after coronary intervention. *Cardiovasc Res*. PMID: [30768153](https://pubmed.ncbi.nlm.nih.gov/30768153/) doi: [10.1093/cvr/cvz015](https://doi.org/10.1093/cvr/cvz015)

Bejaoui Y et al. (2019) Genome-wide association study of psoriasis in an Egyptian population. *Exp Dermatol*. PMID: [30921485](https://pubmed.ncbi.nlm.nih.gov/30921485/) doi: [10.1111/exd.13926](https://doi.org/10.1111/exd.13926)

2018

Westermaier A*, **Munz M*** et al. (2018) Association of genetic variation at Aquaporin-4 locus with vascular depression. *Biomol*. PMID: [30563176](https://pubmed.ncbi.nlm.nih.gov/30563176/) doi: [10.3390/biom8040164](https://doi.org/10.3390/biom8040164)

Munz M et al. (2018) Meta-analysis of genome-wide association studies of aggressive and chronic periodontitis identifies two novel risk loci. *Eur J Hum Genet*. PMID: [30218097](https://pubmed.ncbi.nlm.nih.gov/30218097/) doi: [10.1038/s41431-018-0265-5](https://doi.org/10.1038/s41431-018-0265-5)

Munz M et al. (2018) Genome-wide association meta-analysis of coronary artery disease and periodontitis reveals a novel shared risk locus. *Sci Rep*. PMID: [30209331](https://pubmed.ncbi.nlm.nih.gov/30209331/) doi: [10.1038/s41598-018-31980-8](https://doi.org/10.1038/s41598-018-31980-8)

Offenbacher S et al. (2018) GWAS for Interleukin-1 β levels in gingival crevicular fluid identifies IL37 variants in periodontal inflammation. *Nat Commun*. PMID: [30206230](https://pubmed.ncbi.nlm.nih.gov/30206230/) doi: [10.1038/s41467-018-05940-9](https://doi.org/10.1038/s41467-018-05940-9)

Aarabi G et al. (2018) Roles of the Chr.9p21.3 ANRIL Locus in Regulating Inflammation and Implications for Anti-Inflammatory Drug Target Identification. *Front Cardiovasc Med*. PMID: [29868613](https://pubmed.ncbi.nlm.nih.gov/29868613/) doi: [10.3389/fcvm.2018.00047](https://doi.org/10.3389/fcvm.2018.00047)

Nashef A, Qabaja R, Salaymeh Y, Botzman M, **Munz M** et al. (2018) Integration of Murine and Human Studies for Mapping Periodontitis Susceptibility. *J Dent Res*. PMID: [29294296](https://pubmed.ncbi.nlm.nih.gov/29294296/) doi: [10.1177/0022034517744189](https://doi.org/10.1177/0022034517744189)

Schaich A, Westermaier AL, **Munz M** et al. (2018) Mental health and psychosocial functioning over the lifespan of German patients undergoing cardiac catheterization for coronary artery disease. *Front Psychiatry*. PMID: [29593584](https://pubmed.ncbi.nlm.nih.gov/29593584/) doi: [10.3389/fpsy.2018.00075](https://doi.org/10.3389/fpsy.2018.00075)

2017

Munz M et al. (2017) A genome-wide association study identifies nucleotide variants at SIGLEC5 and DEFA1A3 as risk loci for periodontitis. *Hum Mol Genet*. PMID: [28449029](https://pubmed.ncbi.nlm.nih.gov/28449029/) doi: [10.1093/hmg/ddx151](https://doi.org/10.1093/hmg/ddx151)

Munz M*, Chen H* et al. (2017) A haplotype block downstream of plasminogen is associated with chronic and aggressive periodontitis. *J Clin Periodontol*. PMID: [28548211](https://pubmed.ncbi.nlm.nih.gov/28548211/) doi: [10.1111/jcpe.12749](https://doi.org/10.1111/jcpe.12749)

Shusterman A, **Munz M** et al. (2017) The PF4/PPBP/CXCL5 Gene Cluster Is Associated with Periodontitis. *J Dent Res*. PMID: [28467728](https://pubmed.ncbi.nlm.nih.gov/28467728/) doi: [10.1177/0022034517706311](https://doi.org/10.1177/0022034517706311)

Eitel I, Moeller C, **Munz M** et al. (2017) Genome wide association study in takotsubo syndrome - Preliminary results and future directions. *Int J Cardiol*. PMID: [28108127](https://pubmed.ncbi.nlm.nih.gov/28108127/) doi: [10.1016/j.ijcard.2017.01.093](https://doi.org/10.1016/j.ijcard.2017.01.093)

Haycock PC et al. (2017) Association Between Telomere Length and Risk of Cancer and Non-Neoplastic Diseases. *JAMA Oncol*. PMID: [28241208](https://pubmed.ncbi.nlm.nih.gov/28241208/) doi: [10.1001/jamaoncol.2016.5945](https://doi.org/10.1001/jamaoncol.2016.5945)

2016

Offenbacher S et al. (2016) Genome-wide association study of biologically informed periodontal complex traits offers novel insights into the genetic basis of periodontal disease. *Hum Mol Genet*. PMID: [26962152](https://pubmed.ncbi.nlm.nih.gov/26962152/) doi: [10.1001/jamaoncol.2016.5945](https://doi.org/10.1001/jamaoncol.2016.5945)

2015

Munz M, Tönnies S, Balke W-T, Simon E. (2015) Multidimensional gene search with Genehopper. *Nucl Acids Res*. PMID: [25990726](https://pubmed.ncbi.nlm.nih.gov/25990726/) doi: [10.1093/nar/gkv511](https://doi.org/10.1093/nar/gkv511)

Tinhofer I et al. (2015) Next-generation sequencing: hype and hope for development of personalized radiation therapy? *Radiat Oncol*. PMID: [26316159](https://pubmed.ncbi.nlm.nih.gov/26316159/) doi: [10.1186/s13014-015-0481-x](https://doi.org/10.1186/s13014-015-0481-x)

CONFERENCE POSTERS

2024

Munz M et al. (2024) Identification of plaque-specific immune receptor biomarkers of atherosclerosis. *EMBO Workshop - Spatial Omics and complexities of human diseases: Resolve and Solve*. Rome, Italy

2020

Munz M, Erdmann J, Busch H (2020) Bringing integrated analyses of high-throughput data to the next level. *International Symposium PMI 2020*. Hamburg, Germany

2018

Munz M, Schaefer A, Erdmann J (2018) Comprehensive QTL annotation of GWAS results with Qtlizer. *European Society of Human Genetics*. Milan, Italy

Muñoz ML, **Munz M**, Erdmann J (2018) reduSNP: used for linkage disequilibrium-pruning. *European Society of Human Genetics*. Milan, Italy

2017

Munz M, Willenborg C, Franke A, Erdmann J, Schaefer A (2017) Meta-analysis of periodontitis and coronary artery disease reveals a new shared risk locus. *European Society of Human Genetics*. Copenhagen, Denmark

Bhandari A, **Munz M**, Erdmann J (2017) Functional evaluation of the interaction between cigarette smoking and the coronary artery disease risk gene ADAMTS-7 in *Drosophila melanogaster*. *European Society of Human Genetics*. Copenhagen, Denmark

2016

Munz M, Willenborg C, Franke A, Dommisch H, Erdmann J, Schaefer A (2016) A genome-wide association study identifies SIGLEC5 and the DEFA4 locus as genetic risk factors of Periodontitis. *American Society of Human Genetics*. Vancouver, Canada

Munz M, Willenborg C, Franke A, Schaefer A, Erdmann J (2016) Meta-analysis of Aggressive Periodontitis and Coronary Artery Disease points to new shared risk loci. *e:Med Meeting 2016 on Systems Medicine*. Kiel, Germany

Munz M, Dommisch H, Schaefer A (2016) Genome-wide association study with the early-onset disease aggressive periodontitis using a three-step design. *Berlin Institute of Health Symposium "Exploring Systems Medicine"*. Berlin, Germany

Munz M, Erdmann J, Schaefer A, Simon E (2016) Multidimensional shortest path search in a gene-gene similarity network using Genehopper. *EMBL-Wellcome Genome Campus Conference "Target Validation using Genomics and Informatics"*. Heidelberg, Germany

2015

Munz M, Gratzl S, Erdmann J, Schaefer A, Simon E (2015) Interactive Gene Prioritization for Target Selection using Genehopper and LineUp. *EMBL - Wellcome Genome Campus Conference "Target Validation using Genomics and Informatics"*. Hinxton, UK

2013

Munz M, Leparc G, Simon E (2015) Gene-centered, condensed time-efficient visualization of RNA-Seq data *21st Annual International Conference on Intelligent Systems for Molecular Biology / 12th European Conference on Computational Biology*. Berlin, Germany

 TALKS

October 2016 Flash talk at *e:Med Meeting 2016 on Systems Medicine* in Kiel, Germany. Title: "Meta-analysis of Aggressive Periodonitits and Coronary Artery Disease points to new shared risk loci" s

 REVIEWING

2020 Dentistry Journal (2x), Biomarkers in Medicine, Journal of Clinical Medicine, Journal of Clinical Periodontology
 2019 BMC Medical Genetics, Journal of Clinical Periodontology (2x), Biomarkers in Medicine
 2016 PeerJ, PLOS One