Publications, Posters, Talks, Reviewing

📑 Publications

Equal, shared first authorships are marked with *

Preprint/Under review

Munz M*, Khodaygani M* In silico candidate variant and gene identification using inbred mouse strains

Graham S et al. The power of genetically diverse individuals in genome-wide association studies of blood lipid levels

Freitag-Wolf S et al. Sex specific genetic factors affect periodontitis risk in Caucasian women.

Munz M et al. Qtlizer: comprehensive QTL annotation of GWAS results. *bioRxiv.* doi: 10.1101/495903

Moser S et al. Cis-epistasis at the LPA locus and risk of cardiovascular diseases. *bioRxiv.* doi: 10.1101/518290

2020

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

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

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

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

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

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

Clark D et al. (2019) Associations of autozygosity with a broad range of human phenotypes *Nat Commun.* doi: 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 doi: 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 doi: 10.1093/cvr/cvz015

Bejaoui Y et al. (2019) Genome-wide association study of psoriasis in an Egyptian population. *Exp Dermatol.* PMID: 30921485 doi: 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 doi: 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 doi: 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 doi: 10.1038/s41598-018-31980-8

Offenbacher S el al. (2018) GWAS for Interleukin-1β levels in gingival crevicular fluid identifies IL37 variants in periodontal inflammation. *Nat Commun.* PMID: 30206230 doi: 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 doi: 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 doi: 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 doi: 10.3389/fpsyt.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 doi: 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 doi: 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 doi: 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 doi: 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 doi: 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 doi: 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 doi: 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 doi: 10.1186/s13014-015-0481-x

📋 CONFERENCE POSTERS

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"

☰ 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