Mattei D, **Ivanov A**, van OM, Pantelyushin S, Richetto J, Mueller F, Beffinger M, Schellhammer L, Vom BJ, Wollscheid B, **Beule D**, Paolicelli R, Meyer U (2020). “Enzymatic Dissociation Induces Transcriptional and Proteotype Bias in Brain Cell Populations.” *Int J Mol Sci*, *21*. doi:10.3390/ijms21217944 [Link](https://doi.org/10.3390/ijms21217944)

**Kuhring M**, Eisenberger A, Schmidt V, Kränkel N, Leistner D, Kirwan J, Beule D (2020). “Concepts and Software Package for Efficient Quality Control in Targeted Metabolomics Studies: MeTaQuaC.” *Anal Chem*, *92*, 10241-10245. doi:10.1021/acs.analchem.0c00136 [Link](https://doi.org/10.1021/acs.analchem.0c00136)

Koche R, Rodriguez-Fos E, Helmsauer K, Burkert M, MacArthur I, Maag J, Chamorro R, Munoz-Perez N, Puiggròs M, Dorado GH, Bei Y, Röefzaad C, Bardinet V, Szymansky A, Winkler A, Thole T, Timme N, Kasack K, Fuchs S, Klironomos F, Thiessen N, **Blanc E**, Schmelz K, Künkele A, Hundsdörfer P, Rosswog C, Theissen J, **Beule D**, Deubzer H, Sauer S, Toedling J, Fischer M, Hertwig F, Schwarz R, Eggert A, Torrents D, Schulte J, Henssen A (2020). “Extrachromosomal circular DNA drives oncogenic genome remodeling in neuroblastoma.” *Nat Genet*, *52*, 29-34. doi:10.1038/s41588-019-0547-z [Link](https://doi.org/10.1038/s41588-019-0547-z)

**Holtgrewe M**, **Stolpe O**, **Nieminen M**, Mundlos S, Knaus A, Kornak U, Seelow D, Segebrecht L, Spielmann M, Fischer-Zirnsak B, Boschann F, Scholl U, Ehmke N, **Beule D** (2020). “VarFish: comprehensive DNA variant analysis for diagnostics and research.” *Nucleic Acids Res*, *48*, W162-W169. doi:10.1093/nar/gkaa241 [Link](https://doi.org/10.1093/nar/gkaa241)

**Obermayer B**, **Holtgrewe M**, **Nieminen M**, **Messerschmidt C**, **Beule D** (2020). “SCelVis: exploratory single cell data analysis on the desktop and in the cloud.” *PeerJ*, *8*, e8607. doi:10.7717/peerj.8607 [Link](https://doi.org/10.7717/peerj.8607)

**Nieminen M**, **Stolpe O**, Schumann F (2020). “SODAR Core: a Django-based framework for scientific data management and analysis web apps.” *Journal of Open Source Software*, *5*(55), 1584. doi:10.21105/joss.01584 [Link](http://edoc.mdc-berlin.de/19748/1/19748oa.pdf)

Akpa C, Kleo K, Oker E, Tomaszewski N, **Messerschmidt C**, López C, Wagener R, Oehl-Huber K, Dettmer K, Schoeler A, Lenze D, Oefner P, **Beule D**, Siebert R, Capper D, Dimitrova L, Hummel M (2020). “Acquired resistance to DZNep-mediated apoptosis is associated with copy number gains of AHCY in a B-cell lymphoma model.” *BMC Cancer*, *20*, 427. doi:10.1186/s12885-020-06937-8 [Link](https://doi.org/10.1186/s12885-020-06937-8)

Foddis M, Winek K, **Bentele K**, Mueller S, Blumenau S, Reichhart NN, Crespo-Garcia S, Harnett D, **Ivanov A**, Meisel A, Joussen A, Strauss O, Beule D, Dirnagl U, Sassi C (2020). “An exploratory investigation of brain collateral circulation plasticity after cerebral ischemia in two experimental C57BL/6 mouse models.” *J Cereb Blood Flow Metab*, *40*, 276-287. doi:10.1177/0271678X19827251 [Link](https://doi.org/10.1177/0271678X19827251)

**Messerschmidt C**, **Obermayer B**, Klinghammer K, Ochsenreither S, Treue D, Stenzinger A, Glimm H, Fröhling S, Kindler T, Brandts C, Schulze-Osthoff K, Weichert W, Tinhofer I, Klauschen F, Keilholz U, **Beule D**, Rieke D (2020). “Distinct immune evasion in APOBEC-enriched, HPV-negative HNSCC.” *Int J Cancer*, *147*, 2293-2302. doi:10.1002/ijc.33123 [Link](https://doi.org/10.1002/ijc.33123)

Boschann F, Fischer-Zirnsak B, Wienker T, **Holtgrewe M**, Seelow D, Eichhorn B, Döhnert S, Fahsold R, Horn D, Graul-Neumann L (2020). “An intronic splice site alteration in combination with a large deletion affecting VPS13B (COH1) causes Cohen syndrome.” *Eur J Med Genet*, *63*, 103973. doi:10.1016/j.ejmg.2020.103973 [Link](https://doi.org/10.1016/j.ejmg.2020.103973)

Rieke D, Klinghammer K, **Obermayer B**, **Blanc E**, **Messerschmidt C**, Jöhrens K, Klauschen F, Tinhofer I, **Beule D**, Keilholz U, Ochsenreither S (2020). “Association of a STK11/KEAP1-Mutation Gene Expression Signature in Lung Adenocarcinoma with Immune Desertion in Squamous Cell Carcinomas and Mediation by NFE2L2 Deregulation.” *J Clin Oncol*, *38*(15\_suppl), 3082-3082. doi:10.1200/JCO.2020.38.15\_suppl.3082 [Link](https://doi.org/10.1200/JCO.2020.38.15_suppl.3082)

Ehmke N, Cusmano-Ozog K, Koenig R, **Holtgrewe M**, Nur B, Mihci E, Babcock H, Gonzaga-Jauregui C, Overton J, Xiao J, Martinez A, Muenke M, Balzer A, Jochim J, El CN, Fischer-Zirnsak B, Huber C, Kornak U, Elsea S, Cormier-Daire V, Ferreira C (2020). “Biallelic variants in KYNU cause a multisystemic syndrome with hand hyperphalangism.” *Bone*, *133*, 115219. doi:10.1016/j.bone.2019.115219 [Link](https://doi.org/10.1016/j.bone.2019.115219)

Seidel E, Walenda G, **Messerschmidt C**, **Obermayer B**, Peitzsch M, Wallace P, Bahethi R, Yoo T, Choi M, Schrade P, Bachmann S, Liebisch G, Eisenhofer G, **Beule D**, Scholl U (2020). “Generation and characterization of a mitotane-resistant adrenocortical cell line.” *Endocr Connect*, *9*, 122-134. doi:10.1530/EC-19-0510 [Link](https://doi.org/10.1530/EC-19-0510)

Melo U, Schöpflin R, Acuna-Hidalgo R, Mensah M, Fischer-Zirnsak B, **Holtgrewe M**, Klever M, Türkmen S, Heinrich V, Pluym I, Matoso E, Bernardo dSS, Louro P, Hülsemann W, Cohen M, Dufke A, Latos-Bieleńska A, Vingron M, Kalscheuer V, Quintero-Rivera F, Spielmann M, Mundlos S (2020). “Hi-C Identifies Complex Genomic Rearrangements and TAD-Shuffling in Developmental Diseases.” *Am J Hum Genet*, *106*, 872-884. doi:10.1016/j.ajhg.2020.04.016 [Link](https://doi.org/10.1016/j.ajhg.2020.04.016)

Robinson P, Ravanmehr V, Jacobsen J, Danis D, Zhang X, Carmody L, Gargano M, Thaxton C, UNC BC, Karlebach G, Reese J, **Holtgrewe M**, Köhler S, McMurry J, Haendel M, Smedley D (2020). “Interpretable Clinical Genomics with a Likelihood Ratio Paradigm.” *Am J Hum Genet*, *107*, 403-417. doi:10.1016/j.ajhg.2020.06.021 [Link](https://doi.org/10.1016/j.ajhg.2020.06.021)

Blumenau S, Foddis M, Müller S, **Holtgrewe M**, **Bentele K**, Berchtold D, Beule D, Dirnagl U, Sassi C (2020). “Investigating APOE, APP-Aβ metabolism genes and Alzheimer’s disease GWAS hits in brain small vessel ischemic disease.” *Sci Rep*, *10*, 7103. doi:10.1038/s41598-020-63183-5 [Link](https://doi.org/10.1038/s41598-020-63183-5)

Quade A, Thiel A, Kurth I, **Holtgrewe M**, Elbracht M, **Beule D**, Eggermann K, Scholl U, Häusler M (2020). “Paroxysmal tonic upgaze: A heterogeneous clinical condition responsive to carbonic anhydrase inhibition.” *Eur J Paediatr Neurol*, *25*, 181-186. doi:10.1016/j.ejpn.2019.11.002 [Link](https://doi.org/10.1016/j.ejpn.2019.11.002)

Thole T, Toedling J, Sprüssel A, Pfeil S, Savelyeva L, Capper D, **Messerschmidt C**, **Beule D**, Groeneveld-Krentz S, Eckert C, Gambara G, Henssen A, Finkler S, Schulte J, Sieber A, Bluethgen N, Regenbrecht C, Künkele A, Lodrini M, Eggert A, Deubzer H (2020). “Reflection of neuroblastoma intratumor heterogeneity in the new OHC-NB1 disease model.” *Int J Cancer*, *146*, 1031-1041. doi:10.1002/ijc.32572 [Link](https://doi.org/10.1002/ijc.32572)

Lamping M, **Benary M**, Leyvraz S, **Messerschmidt C**, **Blanc E**, Kessler T, Schütte M, Lenze D, Jöhrens K, Burock S, Klinghammer K, Ochsenreither S, Sers C, Schäfer R, Tinhofer I, **Beule D**, Klauschen F, Yaspo M, Keilholz U, Rieke D (2020). “Support of a molecular tumour board by an evidence-based decision management system for precision oncology.” *Eur J Cancer*, *127*, 41-51. doi:10.1016/j.ejca.2019.12.017 [Link](https://doi.org/10.1016/j.ejca.2019.12.017)

Praktiknjo S, **Obermayer B**, Zhu Q, Fang L, Liu H, Quinn H, Stoeckius M, Kocks C, Birchmeier W, Rajewsky N (2020). “Tracing tumorigenesis in a solid tumor model at single-cell resolution.” *Nat Commun*, *11*, 991. doi:10.1038/s41467-020-14777-0 [Link](https://doi.org/10.1038/s41467-020-14777-0)

Suter A, Santos-Simarro F, Toerring P, Abad PA, Ramos-Mejia R, Heath K, Huckstadt V, Parrón-Pajares M, Mensah M, Hülsemann W, **Holtgrewe M**, Mundlos S, Kornak U, Bartsch O, Ehmke N (2020). “Variable pulmonary manifestations in Chitayat syndrome: Six additional affected individuals.” *Am J Med Genet A*, *182*, 2068-2076. doi:10.1002/ajmg.a.61735 [Link](https://doi.org/10.1002/ajmg.a.61735)

Bockstahler M, Fischer A, Goetzke C, Neumaier H, Sauter M, Kespohl M, Müller A, Meckes C, Salbach C, Schenk M, Heuser A, Landmesser U, **Weiner J**, Meder B, Lehmann L, Kratzer A, Klingel K, Katus H, Kaya Z, Beling A (2020). “Heart-Specific Immune Responses in an Animal Model of Autoimmune-Related Myocarditis Mitigated by an Immunoproteasome Inhibitor and Genetic Ablation.” *Circulation*, *141*, 1885-1902. doi:10.1161/CIRCULATIONAHA.119.043171 [Link](https://doi.org/10.1161/CIRCULATIONAHA.119.043171)

Krishnamoorthy G, Kaiser P, Abu AU, **Weiner J**3, Moura-Alves P, Brinkmann V, Kaufmann S (2020). “FX11 limits Mycobacterium tuberculosis growth and potentiates bactericidal activity of isoniazid through host-directed activity.” *Dis Model Mech*, *13*. doi:10.1242/dmm.041954 [Link](https://doi.org/10.1242/dmm.041954)

Tregoning J, **Weiner J**, Cizmeci D, Hake D, Maertzdorf J, Kaufmann S, Leroux-Roels G, Maes C, Aerssens A, Calvert A, Jones C (2020). “Pregnancy has a minimal impact on the acute transcriptional signature to vaccination.” *NPJ Vaccines*, *5*, 29. doi:10.1038/s41541-020-0177-6 [Link](https://doi.org/10.1038/s41541-020-0177-6)

**Weiner J**, Domaszewska T, Donkor S, Kaufmann S, Hill P, Sutherland J (2020). “Changes in Transcript, Metabolite, and Antibody Reactivity During the Early Protective Immune Response in Humans to Mycobacterium tuberculosis Infection.” *Clin Infect Dis*, *71*, 30-40. doi:10.1093/cid/ciz785 [Link](https://doi.org/10.1093/cid/ciz785)

Win Z, **Weiner RJ**, Listanco A, Patel N, Sharma R, Greenwood A, Maertzdorf J, Mollenkopf H, Pizzoferro K, Cole T, Bodinham C, Kaufmann S, Denoel P, Del GG, Lewis D (2020). “Systematic Evaluation of Kinetics and Distribution of Muscle and Lymph Node Activation Measured by (18)F-FDG- and (11)C-PBR28-PET/CT Imaging, and Whole Blood and Muscle Transcriptomics After Immunization of Healthy Humans With Adjuvanted and Unadjuvanted Vaccines.” *Front Immunol*, *11*, 613496. doi:10.3389/fimmu.2020.613496 [Link](https://doi.org/10.3389/fimmu.2020.613496)

Mochel F, Rastetter A, Ceulemans B, Platzer K, Yang S, Shinde D, Helbig K, Lopergolo D, Mari F, Renieri A, Benetti E, Canitano R, Waisfisz Q, Plomp A, Huisman S, Wilson G, Cathey S, Louie R, Gaudio D, Waggoner D, Kacker S, Nugent K, Roeder E, Bruel A, Thevenon J, Ehmke N, Horn D, **Holtgrewe M**, Kaiser F, Kamphausen S, Abou JR, Weckhuysen S, Dalle C, Depienne C (2020). “Variants in the SK2 channel gene (KCNN2) lead to dominant neurodevelopmental movement disorders.” *Brain*, *143*(12), 3564-3573. doi:10.1093/brain/awaa346 [Link](https://doi.org/10.1093/brain/awaa346)

Foddis M, Winek K, **Bentele K**, Mueller S, Blumenau S, Reichhart NN, Crespo-Garcia S, Harnett D, **Ivanov A**, Meisel A, Joussen A, Strauss O, Beule D, Dirnagl U, Sassi C (2020). “An exploratory investigation of brain collateral circulation plasticity after cerebral ischemia in two experimental C57BL/6 mouse models.” *J Cereb Blood Flow Metab*, *40*, 276-287. doi:10.1177/0271678X19827251 [Link](https://doi.org/10.1177/0271678X19827251)

Quade A, Thiel A, Kurth I, **Holtgrewe M**, Elbracht M, **Beule D**, Eggermann K, Scholl U, Häusler M (2020). “Paroxysmal tonic upgaze: A heterogeneous clinical condition responsive to carbonic anhydrase inhibition.” *Eur J Paediatr Neurol*, *25*, 181-186. doi:10.1016/j.ejpn.2019.11.002 [Link](https://doi.org/10.1016/j.ejpn.2019.11.002)