

List of publications 2022

List of publications with involvement of GPF members. GPF authors are labeled as bold type. Publications headed by authors from scientific groups of the GC (first or last author) are additionally labeled with ❖.

- (1) **Altenbuchinger M.**, Berndt H., Kosch R., Lang I., Dönitz J., Oefner P.J., Gronwald W., Zacharias H.U. and Investigators Gckd S. (2022) Bucket Fuser: Statistical Signal Extraction for 1D (1)H NMR Metabolomic Data. *Metabolites*, 12, 812. ❖
- (2) Ben Guebila M., Weighill D., Lopes-Ramos C.M., Burkholz R., Pop R.T., Palepu K., Shapoval M., Fagny M., Schlauch D., Glass K., **Altenbuchinger M.**, Kuijjer M.L., Platig J. and Quackenbush J. (2022) An online notebook resource for reproducible inference, analysis and publication of gene regulatory networks. *Nat Methods*, 19, 511-513.
- (3) Blazquez R., Chuang H.N., Wenske B., Trigueros L., Wlochowitz D., Liguori R., Ferrazzi F., Regen T., Proescholdt M.A., Rohde V., Riemenschneider M.J., Stadelmann C., Bleckmann A., **Beissbarth T.**, van Rossum D., Hanisch U.K. and Pukrop T. (2022) Intralesional TLR4 agonist treatment strengthens the organ defense against colonizing cancer cells in the brain. *Oncogene*, 41, 5008-5019. ❖
- (4) Bludau A., Heinemann S., Mardiko A.A., Kaba H.E.J., **Leha A.**, von Maltzahn N., Mutters N.T., Leistner R., Mattner F. and Scheithauer S. (2022) Infection control strategies for patients and accompanying persons during the COVID-19 pandemic in German hospitals: a cross-sectional study in March-April 2021. *J Hosp Infect*, 125, 28-36. ❖
- (5) Bockhop F., Zeldovich M., Cunitz K., Van Praag D., van der Vlegel M., **Beissbarth T.**, Hagmayer Y. and von Steinbuechel N. (2022) Measurement invariance of six language versions of the post-traumatic stress disorder checklist for DSM-5 in civilians after traumatic brain injury. *Sci Rep*, 12, 16571. ❖
- (6) Bolgi O., Silva-Garcia M., Ross B., Pilla E., Kari V., Killisch M., Spitzner M., Stark N., **Lenz C.**, Weiss K., Donzelli L., Gorrell M.D., Grade M., Riemer J., **Urlaub H.**, Dobbelsstein M., Huber R. and Geiss-Friedlander R. (2022) Dipeptidyl peptidase 9 triggers BRCA2 degradation and promotes DNA damage repair. *EMBO Rep*, 23, e54136. ❖
- (7) Brandenburg S., Drews L., Schönberger H.L., Jacob C.F., Paulke N.J., Beuthner B.E., Topci R., Kohl T., Neuenroth L., Kutschka I., **Urlaub H.**, Kück F., **Leha A.**, Friede T., Seidler T., Jacobshagen C., Toischer K., Puls M., Hasenfuss G., **Lenz C.** and Lehnart S.E. (2022) Direct proteomic and high-resolution microscopy biopsy analysis identifies distinct ventricular fates in severe aortic stenosis. *J Mol Cell Cardiol*, 173, 1-15. ❖
- (8) Bras I.C., Khani M.H., Riedel D., Parfentev I., Gerhardt E., van Riesen C., **Urlaub H.**, Gollisch T. and Outeiro T.F. (2022) Ectosomes and exosomes modulate neuronal spontaneous activity. *J Proteomics*, 269, 104721. ❖
- (9) Bras I.C., Khani M.H., Vasili E., Möbius W., Riedel D., Parfentev I., Gerhardt E., Fahlbusch C., **Urlaub H.**, Zweckstetter M., Gollisch T. and Outeiro T.F. (2022) Molecular Mechanisms Mediating the Transfer of Disease-Associated Proteins and Effects on Neuronal Activity. *J Parkinsons Dis*, 12, 2397-2422. ❖
- (10) Braulke F., Schweighöfer A., Schanz J., Shirmeshan K., Ganster C., Pollock-Kopp B., **Leha A.** and Haase D. (2022) Cytogenetic peripheral blood monitoring in azacitidine treated patients with high-risk MDS/sAML: A monocentric real-world experience. *Leuk Res*, 124, 106996. ❖

- (11) Breitling V., **Leha A.**, Schiller S., Kruiuzenga M., Gärtner J. and Rosewich H. (2022) Association of Overweight and Obesity With Bell Palsy in Children. *Pediatr Neurol*, 139, 43-48. ❖
- (12) Bürgers R., Schubert A., Müller J., Krohn S., Rödiger M., **Leha A.** and Wassmann T. (2022) Cytotoxicity of 3D-printed, milled, and conventional oral splint resins to L929 cells and human gingival fibroblasts. *Clin Exp Dent Res*, 8, 650-657. ❖
- (13) Buscham T.J., Eichel-Vogel M.A., Steyer A.M., **Jahn O.**, Strenzke N., Dardawal R., Memhave T.R., Siems S.B., Müller C., Meschkat M., Sun T., Ruhwedel T., Möbius W., Krämer-Albers E.M., Boretius S., Nave K.A. and Werner H.B. (2022) Progressive axonopathy when oligodendrocytes lack the myelin protein CMTM5. *Elife*, 11e75523. ❖
- (14) Caldi Gomes L., Galhoz A., Jain G., Roser A.E., Maass F., Carboni E., Barski E., **Lenz C.**, Lohmann K., Klein C., Bähr M., Fischer A., Menden M.P. and Lingor P. (2022) Multi-omic landscaping of human midbrains identifies disease-relevant molecular targets and pathways in advanced-stage Parkinson's disease. *Clin Transl Med*, 12, e692. ❖
- (15) Chang H.F., Schirra C., Ninov M., Hahn U., Ravichandran K., Krause E., Becherer U., Bálint S., Harkiolaki M., **Urlaub H.**, Valitutti S., Baldari C.T., Dustin M.L., Jahn R. and Rettig J. (2022) Identification of distinct cytotoxic granules as the origin of supramolecular attack particles in T lymphocytes. *Nat Commun*, 13, 1029.
- (16) Cheng S., Altmeppen G., So C., Welp L.M., Penir S., Ruhwedel T., Menelaou K., Harasimov K., Stützer A., Blayney M., Elder K., Möbius W., **Urlaub H.** and Schuh M. (2022) Mammalian oocytes store mRNAs in a mitochondria-associated membraneless compartment. *Science*, 378, eabq4835. ❖
- (17) Ditte Z., Silbern I., Ditte P., **Urlaub H.** and Eichele G. (2022) Extracellular vesicles derived from the choroid plexus trigger the differentiation of neural stem cells. *J Extracell Vesicles*, 11, e12276. ❖
- (18) Djian B., **Feussner K.**, Herrfurth C., Zienkiewicz K., Hornung E. and Feussner I. (2022) Plastidic membrane lipids are oxidized by a lipoxxygenase in *Lobosphaera incisa*. *Front Plant Sci*, 13, 1102215. ❖
- (19) Düking T., Spieth L., Berghoff S.A., Piepkorn L., Schmidke A.M., Mitkovski M., Kannaiyan N., Hosang L., Scholz P., Shaib A.H., Schneider L.V., Hesse D., Ruhwedel T., Sun T., Linhoff L., Trevisiol A., Köhler S., Pastor A.M., Misgeld T., Sereda M., Hassouna I., Rossner M.J., Odoardi F., Ischebeck T., de Hoz L., Hirrlinger J., **Jahn O.** and Saher G. (2022) Ketogenic diet uncovers differential metabolic plasticity of brain cells. *Sci Adv*, 8, eabo7639. ❖
- (20) Düster R., Ji Y., Pan K.T., **Urlaub H.** and Geyer M. (2022) Functional characterization of the human Cdk10/Cyclin Q complex. *Open Biol*, 12, 210381.
- (21) Eidizadeh A., Schnelle M., **Leha A.**, Edelmann F., Nolte K., Werhahn S.M., Binder L. and Wachter R. (2022) Biomarker profiles in heart failure with preserved vs. reduced ejection fraction: results from the DIAST-CHF study. *ESC Heart Fail*, 10, 200-210. ❖
- (22) Elakad O., Häupl B., Labitzky V., Yao S., Küffer S., von Hammerstein-Equord A., Danner B.C., Jücker M., **Urlaub H.**, Lange T., Ströbel P., Oellerich T. and Bohnenberger H. (2022) Activation of CD44/PAK1/AKT signaling promotes resistance to FGFR1 inhibition in squamous-cell lung cancer. *NPJ Precis Oncol*, 6, 52. ❖
- (23) Emons G., Auslander N., Jo P., Kitz J., Azizian A., Hu Y., Hess C.F., Roedel C., Sax U., Salinas G., Stroebe P., Kramer F., **Beissbarth T.**, Grade M., Ghadimi M., Ruppin E., Ried T. and Gaedcke J. (2022) Gene-expression profiles of pretreatment biopsies

- predict complete response of rectal cancer patients to preoperative chemoradiotherapy. *Br J Cancer*, 127, 766-775. ❖
- (24) Fang P., Ji Y., Oellerich T., **Urlaub H.** and Pan K.T. (2022) Strategies for Proteome-Wide Quantification of Glycosylation Macro- and Micro-Heterogeneity. *Int J Mol Sci*, 23, 1609.
- (25) Farkas A., **Urlaub H.**, Bohnsack K.E. and Schwappach B. (2022) Regulated targeting of the monotopic hairpin membrane protein Erg1 requires the GET pathway. *J Cell Biol*, 221, e202201036. ❖
- (26) Fichtner A., Bohnenberger H., Elakad O., Richter A., **Lenz C.**, Oing C., Ströbel P., Kueffer S., Nettersheim D. and Bremmer F. (2022) Proteomic profiling of cisplatin-resistant and cisplatin-sensitive germ cell tumour cell lines using quantitative mass spectrometry. *World J Urol*, 40, 373-383. ❖
- (27) Franz A., Weber A.I., Preussner M., Dimos N., Stumpf A., Ji Y., Moreno-Velasquez L., Voigt A., Schulz F., Neumann A., Kuroпка B., Kühn R., **Urlaub H.**, Schmitz D., Wahl M.C. and Heyd F. (2022) Branch point strength controls species-specific CAMK2B alternative splicing and regulates LTP. *Life Sci Alliance*, 6, e202201826.
- (28) Gargareta V.I., Reuschenbach J., Siems S.B., Sun T., Piepkorn L., Mangana C., Späte E., Goebbels S., Huitinga I., Möbius W., Nave K.A., **Jahn O.** and Werner H.B. (2022) Conservation and divergence of myelin proteome and oligodendrocyte transcriptome profiles between humans and mice. *Elife*, 11e77019. ❖
- (29) Georgiou M., Yang C., Atkinson R., Pan K.T., Buskin A., Molina M.M., Collin J., Al-Aama J., Goertler F., Ludwig S.E.J., Davey T., Lührmann R., Nagaraja-Grellscheid S., Johnson C.A., Ali R., Armstrong L., Korolchuk V., **Urlaub H.**, Mozaffari-Jovin S. and Lako M. (2022) Activation of autophagy reverses progressive and deleterious protein aggregation in PRPF31 patient-induced pluripotent stem cell-derived retinal pigment epithelium cells. *Clin Transl Med*, 12, e759.
- (30) Giménez E., **Urlaub H.** and Falomir Lockhart L.J. (2022) Photo-tuneable protein nitration by sensitizer tris(bipyridine)-Ruthenium(II) chloride complex. *Nitric Oxide*, 129, 63-73.
- (31) Heidemann J.L., Neumann P., Krüger L., Wicke D., Vinhoven L., Linden A., Dickmanns A., Stülke J., **Urlaub H.** and Ficner R. (2022) Structural basis for c-di-AMP-dependent regulation of the bacterial stringent response by receptor protein DarB. *J Biol Chem*, 298, 102144. ❖
- (32) Hollstein L.S., **Schmitt K.**, **Valerius O.**, Stahlhut G. and Pöggeler S. (2022) Establishment of in vivo proximity labeling with biotin using TurboID in the filamentous fungus *Sordaria macrospora*. *Sci Rep*, 12, 17727. ❖
- (33) Hollstein M.M., Münsterkötter L., Schön M.P., Bergmann A., Husar T.M., Abratis A., Eidizadeh A., Dierks S., Schaffrinski M., Zachmann K., Schmitz A., Holsapple J.S., Stanisz-Bogeski H., Schanz J., Fischer A., Gross U., **Leha A.**, Zautner A.E., Schnelle M. and Erpenbeck L. (2022) Long-term effects of homologous and heterologous SARS-CoV-2 vaccination on humoral and cellular immune responses. *Allergy*, 77, 2560-2564. ❖
- (34) Hollstein M.M., Münsterkötter L., Schön M.P., Bergmann A., Husar T.M., Abratis A., Eidizadeh A., Schaffrinski M., Zachmann K., Schmitz A., Holsapple J.S., Stanisz-Bogeski H., Schanz J., Fischer A., Gross U., **Leha A.**, Zautner A.E., Schnelle M. and Erpenbeck L. (2022) Interdependencies of cellular and humoral immune responses in heterologous and homologous SARS-CoV-2 vaccination. *Allergy*, 77, 2381-2392. ❖

- (35) James C., **Lenz C.** and Kehlenbach R.H. (2022) RAPIDS, a method for sub-compartmental identification of protein interactomes. *Methods Enzymol*, **675**, 109-130. ❖
- (36) Jarasch J., Neuenroth L., Andag R., **Leha A.**, Fischer A., **Asif A.R.**, **Lenz C.** and Eidizadeh A. (2022) Influence of Shear Stress, Inflammation and BRD4 Inhibition on Human Endothelial Cells: A Holistic Proteomic Approach. *Cells*, 113086. ❖
- (37) Jayavelu A.K., Wolf S., Buettner F., Alexe G., Häupl B., Comoglio F., Schneider C., Doebele C., Fuhrmann D.C., Wagner S., Donato E., Andresen C., Wilke A.C., Zindel A., Jahn D., Splettstoesser B., Plessmann U., Münch S., Abou-El-Ardat K., Makowka P., Acker F., Enssle J.C., Cremer A., Schnütgen F., Kurrle N., Chapuy B., Löber J., Hartmann S., Wild P.J., Wittig I., Hübschmann D., Kaderali L., Cox J., Brüne B., Röllig C., Thiede C., Steffen B., Bornhauser M., Trumpp A., **Urlaub H.**, Stegmaier K., Serve H., Mann M. and Oellerich T. (2022) The proteogenomic subtypes of acute myeloid leukemia. *Cancer Cell*, **40**, 301-317 e312.
- (38) Kasper K., Abreu I.N., **Feussner K.**, Zienkiewicz K., Herrfurth C., Ischebeck T., Janz D., Majcherczyk A., **Schmitt K.**, **Valerius O.**, Braus G.H., Feussner I. and Polle A. (2022) Multi-omics analysis of xylem sap uncovers dynamic modulation of poplar defenses by ammonium and nitrate. *Plant J*, **111**, 282-303. ❖
- (39) Klafki H.W., Morgado B., Wirths O., **Jahn O.**, Bauer C., Esselmann H., Schuchhardt J. and Wiltfang J. (2022) Is plasma amyloid-beta 1-42/1-40 a better biomarker for Alzheimer's disease than AbetaX-42/X-40? *Fluids Barriers CNS*, **19**, 96. ❖
- (40) Klafki H.W., Wirths O., Mollenhauer B., Liepold T., Rieper P., Esselmann H., Vogelgsang J., Wiltfang J. and **Jahn O.** (2022) Detection and quantification of Abeta-3-40 (APP669-711) in cerebrospinal fluid. *J Neurochem*, **160**, 578-589. ❖
- (41) Kluever V., Russo B., Mandad S., Kumar N.H., Alevra M., Ori A., Rizzoli S.O., **Urlaub H.**, Schneider A. and Fornasiero E.F. (2022) Protein lifetimes in aged brains reveal a proteostatic adaptation linking physiological aging to neurodegeneration. *Sci Adv*, **8**, eabn4437. ❖
- (42) Koutsoumparis A., Welp L.M., Wulf A., **Urlaub H.**, Meierhofer D., Borno S., Timmermann B., Busack I. and Bringmann H. (2022) Sleep neuron depolarization promotes protective gene expression changes and FOXO activation. *Curr Biol*, **32**, 2248-2262 e2249.
- (43) Krawczyk H.E., Sun S., Doner N.M., Yan Q., Lim M.S.S., Scholz P., Niemeyer P.W., **Schmitt K.**, **Valerius O.**, Pleskot R., Hillmer S., Braus G.H., Wiermer M., Mullen R.T. and Ischebeck T. (2022) SEED LIPID DROPLET PROTEIN1, SEED LIPID DROPLET PROTEIN2, and LIPID DROPLET PLASMA MEMBRANE ADAPTOR mediate lipid droplet-plasma membrane tethering. *Plant Cell*, **34**, 2424-2448. ❖
- (44) Krebs T., Kilic I., Neuenroth L., Wasselin T., Ninov M., Tetens J. and **Lenz C.** (2022) A multiplexed parallel reaction monitoring assay to monitor bovine pregnancy-associated glycoproteins throughout pregnancy and after gestation. *PLoS One*, **17**, e0271057. ❖
- (45) Kubitz L., Bitsch S., Zhao X., **Schmitt K.**, Deweid L., Roehrig A., Barazzone E.C., **Valerius O.**, Kolmar H. and Béthune J. (2022) Engineering of ultraID, a compact and hyperactive enzyme for proximity-dependent biotinylation in living cells. *Commun Biol*, **5**, 657.
- (46) Kurz N.S., Perera-Bel J., Höltermann C., Tucholski T., Yang J., **Beissbarth T.** and Dönitz J. (2022) Identifying Actionable Variants in Cancer - The Dual Web and Batch Processing Tool MTB-Report. *Stud Health Technol Inform*, **296**, 73-80. ❖

- (47) Kwiatkowski M., Hotze M., Schumacher J., **Asif A.R.**, Pittol J.M.R., Brenig B., Ramljak S., Zischler H. and Herlyn H. (2022) Protein speciation is likely to increase the chance of proteins to be determined in 2-DE/MS. *Electrophoresis*, 43, 1203-1214.
- (48) Linnemannstöns K., Karuna M.P., Witte L., Choezom D., Honemann-Capito M., Lagurin A.S., Schmidt C.V., Shrikhande S., Steinmetz L.K., Wiebke M., **Lenz C.** and Gross J.C. (2022) Microscopic and biochemical monitoring of endosomal trafficking and extracellular vesicle secretion in an endogenous in vivo model. *J Extracell Vesicles*, 11, e12263. ❖
- (49) Maass F., Hermann P., Varges D., Nuhn S., van Riesen C., Jamous A., Focke N.K., Hewitt M., **Leha A.**, Bähr M. and Zerr I. (2022) Prospective CERAD Neuropsychological Assessment in Patients With Multiple System Atrophy. *Front Neurol*, 13, 881369. ❖
- (50) Maciej V.D., Mateva N., Schwarz J., Dittmers T., Mallick M., **Urlaub H.** and Chakrabarti S. (2022) Intrinsically disordered regions of tristetraprolin and DCP2 directly interact to mediate decay of ARE-mRNA. *Nucleic Acids Res*, 50, 10665-10679.
- (51) Maes M.S., Kanzow P., Biermann J., **Leha A.**, Hrasky V. and Wiegand A. (2022) Risk factors for repeated general anesthesia for dental treatment of adult patients with intellectual and/or physical disabilities. *Clin Oral Investig*, 26, 1695-1700. ❖
- (52) Mardiko A.A., Heinemann S., Bludau A., Kaba H.E.J., **Leha A.**, von Maltzahn N., Mutters N.T., Leistner R., Mattner F. and Scheithauer S. (2022) COVID-19 vaccination strategy for hospital staff in Germany: a cross-sectional study in March-April 2021. *J Hosp Infect*, 126, 87-92. ❖
- (53) Marquardt L., Taylor M., Kramer F., **Schmitt K.**, Braus G.H., **Valerius O.** and Thumm M. (2022) Vacuole fragmentation depends on a novel Atg18-containing retromer-complex. *Autophagy*, 19, 278-295. ❖
- (54) Menck K., Wlochowitz D., Wachter A., Conradi L.C., Wolff A., Scheel A.H., Korf U., Wiemann S., Schildhaus H.U., Bohnenberger H., Wingender E., Pukrop T., Homayounfar K., **Beissbarth T.** and Bleckmann A. (2022) High-Throughput Profiling of Colorectal Cancer Liver Metastases Reveals Intra- and Inter-Patient Heterogeneity in the EGFR and WNT Pathways Associated with Clinical Outcome. *Cancers (Basel)*, 14, 2084. ❖
- (55) Meschkat M., Steyer A.M., Weil M.T., Kusch K., **Jahn O.**, Piepkorn L., Agui-Gonzalez P., Phan N.T.N., Ruhwedel T., Sadowski B., Rizzoli S.O., Werner H.B., Ehrenreich H., Nave K.A. and Möbius W. (2022) White matter integrity in mice requires continuous myelin synthesis at the inner tongue. *Nat Commun*, 13, 1163. ❖
- (56) Meyer A., Kehl A., Cui C., Reichardt F.A.K., Hecker F., Funk L.M., Ghosh M.K., Pan K.T., **Urlaub H.**, Tittmann K., Stubbe J. and Bennati M. (2022) ¹⁹F Electron-Nuclear Double Resonance Reveals Interaction between Redox-Active Tyrosines across the alpha/beta Interface of *E. coli* Ribonucleotide Reductase. *J Am Chem Soc*, 144, 11270-11282. ❖
- (57) Mishto M., Horokhovskiy Y., Cormican J.A., Yang X., Lynham S., **Urlaub H.** and Liepe J. (2022) Database search engines and target database features impinge upon the identification of post-translationally cis-spliced peptides in HLA class I immunopeptidomes. *Proteomics*, 22, e2100226. ❖
- (58) Moll A., Ramirez L.M., Ninov M., Schwarz J., **Urlaub H.** and Zweckstetter M. (2022) Hsp multichaperone complex buffers pathologically modified Tau. *Nat Commun*, 13, 3668. ❖

- (59) Niemeyer P.W., Irisarri I., Scholz P., **Schmitt K.**, **Valerius O.**, Braus G.H., Herrfurth C., Feussner I., Sharma S., Carlsson A.S., de Vries J., Hofvander P. and Ischebeck T. (2022) A seed-like proteome in oil-rich tubers. *Plant J*, 112, 518-534. ❖
- (60) Noor A., Zafar S., Shafiq M., Younas N., Siegert A., Mann F.A., Kruss S., Schmitz M., **Dihazi H.**, Ferrer I. and Zerr I. (2022) Molecular Profiles of Amyloid-beta Proteoforms in Typical and Rapidly Progressive Alzheimer's Disease. *Mol Neurobiol*, 59, 17-34. ❖
- (61) O'Sullivan E.D., Mylonas K.J., Bell R., Carvalho C., Baird D.P., Cairns C., Gallagher K.M., Campbell R., Docherty M., Laird A., Henderson N.C., Chandra T., Kirschner K., Conway B., Dihazi G.H., Zeisberg M., Hughes J., Denby L., **Dihazi H.** and Ferenbach D.A. (2022) Single-cell analysis of senescent epithelia reveals targetable mechanisms promoting fibrosis. *JCI Insight*, 7, e154124.
- (62) Rengachari S., Schilbach S., Kaliyappan T., Gouge J., Zumer K., Schwarz J., **Urlaub H.**, Dienemann C., Vannini A. and Cramer P. (2022) Structural basis of SNAPc-dependent snRNA transcription initiation by RNA polymerase II. *Nat Struct Mol Biol*, 29, 1159-1169. ❖
- (63) Richter A., Fichtner A., Joost J., Brockmeyer P., Kauffmann P., Schliephake H., Hammerstein-Equord A., Kueffer S., **Urlaub H.**, Oellerich T., Ströbel P., Bohnenberger H. and Bremmer F. (2022) Quantitative proteomics identifies biomarkers to distinguish pulmonary from head and neck squamous cell carcinomas by immunohistochemistry. *J Pathol Clin Res*, 8, 33-47. ❖
- (64) Rinke S., Zuck T., Hausdörfer T., **Leha A.**, Wassmann T. and Ziebolz D. (2022) Prospective clinical evaluation of chairside-fabricated zirconia-reinforced lithium silicate ceramic partial crowns-5-year results. *Clin Oral Investig*, 26, 1593-1603. ❖
- (65) Rühlmann F., Tichelbäcker T., Mackert A.F., Engelhardt D., **Leha A.**, Bernhardt M., Ghadimi M., Perl T., Azizian A. and Gaedcke J. (2022) Incidence, Associated Risk Factors, and Outcomes of Postoperative Arrhythmia After Upper Gastrointestinal Surgery. *JAMA Netw Open*, 5, e2223225. ❖
- (66) Sarikaya Bayram O., Bayram O., Karahoda B., Meister C., Köhler A.M., Thieme S., Elramli N., Frawley D., McGowan J., Fitzpatrick D.A., **Schmitt K.**, de Assis L.J., **Valerius O.**, Goldman G.H. and Braus G.H. (2022) F-box receptor mediated control of substrate stability and subcellular location organizes cellular development of *Aspergillus nidulans*. *PLoS Genet*, 18, e1010502. ❖
- (67) Schittkowski M.P., **Leha A.**, Horn M. and Naxer S. (2022) The Nasolacrimal Drainage System in 143 Children with the Microphthalmos-Anophthalmos Complex. *Klin Monbl Augenheilkd*, 239, 57-63. ❖
- (68) Schneider K., Farr T., Pinter N., **Schmitt K.**, **Valerius O.**, Braus G.H. and Kämper J. (2022) The Nma1 protein promotes long distance transport mediated by early endosomes in *Ustilago maydis*. *Mol Microbiol*, 117, 334-352.
- (69) Schrod S., Schafer A., Solbrig S., Lohmayer R., Gronwald W., Oefner P.J., **Beissbarth T.**, Spang R., Zacharias H.U. and **Altenbuchinger M.** (2022) BITES: balanced individual treatment effect for survival data. *Bioinformatics*, 38, i60-i67. ❖
- (70) Shahid S., Pantakani M., Binder L., Fischer A., Pantakani K. and **Asif A.R.** (2022) Small Molecule BRD4 Inhibitors Apabetalone and JQ1 Rescues Endothelial Cells Dysfunction, Protects Monolayer Integrity and Reduces Midkine Expression. *Molecules*, 27, 7453. ❖
- (71) Stamm B., Blaschke M., Wilken L., Wilde D., Heppner C., **Leha A.**, Herrmann-Lingen C. and Siggelkow H. (2022) The Influence of Conventional Treatment on Symptoms

and Complaints in Patients With Chronic Postsurgical Hypoparathyroidism. *JBMR Plus*, 6, e10586. ❖

- (72) Stejerean-Todoran I., Zimmermann K., Gibhardt C.S., Vultur A., Ickes C., Shannan B., Bonilla Del Rio Z., Wölling A., Cappello S., Sung H.M., Shumanska M., Zhang X., Nanadikar M., Latif M.U., Wittek A., Lange F., Waters A., Brafford P., Wilting J., **Urlaub H.**, Katschinski D.M., Rehling P., **Lenz C.**, Jakobs S., Ellenrieder V., Roesch A., Schön M.P., Herlyn M., Stanisz H. and Bogeski I. (2022) MCU controls melanoma progression through a redox-controlled phenotype switch. *EMBO Rep*, 23, e54746. ❖
- (73) Tayyeb A., Dihazi G.H., Tampe B., Zeisberg M., Tampe D., Hakrrouch S., Bührig C., Frese J., Serin N., Eltoweissy M., Müller G.A. and **Dihazi H.** (2022) Calreticulin Shortage Results in Disturbance of Calcium Storage, Mitochondrial Disease, and Kidney Injury. *Cells*, 11, 1329. ❖
- (74) Upmanyu N., Jin J., Emde H.V., Ganzella M., Börsche L., Malviya V.N., Zhuleku E., Politi A.Z., Ninov M., Silbern I., Leutenegger M., **Urlaub H.**, Riedel D., Preobraschenski J., Milosevic I., Hell S.W., Jahn R. and Sambandan S. (2022) Colocalization of different neurotransmitter transporters on synaptic vesicles is sparse except for VGLUT1 and ZnT3. *Neuron*, 110, 1483-1497 e1487. ❖
- (75) Weninger G., Pochechueva T., El Chami D., Luo X., Kohl T., Brandenburg S., **Urlaub H.**, Guan K., **Lenz C.** and Lehnart S.E. (2022) Calpain cleavage of Junctophilin-2 generates a spectrum of calcium-dependent cleavage products and DNA-rich NT(1)-fragment domains in cardiomyocytes. *Sci Rep*, 12, 10387. ❖
- (76) Werner M., Dyas A., Parfentev I., Schmidt G.E., Mieczkowska I.K., Müller-Kirschbaum L.C., Müller C., Kalkhof S., Reinhardt O., **Urlaub H.**, Alves F., Gallwas J., Prokakis E. and Wegwitz F. (2022) ROBO3s: a novel ROBO3 short isoform promoting breast cancer aggressiveness. *Cell Death Dis*, 13, 762. ❖
- (77) Wilke A.C., Doebele C., Zindel A., Lee K.S., Rieke S.A., Ceribelli M., Comoglio F., Phelan J.D., Wang J.Q., Pikman Y., Jahn D., Haupl B., Schneider C., Scheich S., Tosto F.A., Bohnenberger H., Stauder P., Schnutgen F., Slabicki M., Coulibaly Z.A., Wolf S., Bojarczuk K., Chapuy B., Brandts C.H., Stroebel P., Lewis C.A., Engelke M., Xu X., Kim H., Dang T.H., Schmitz R., Hodson D.J., Stegmaier K., **Urlaub H.**, Serve H., Schmitt C.A., Kreuz F., Knittel G., Rabinowitz J.D., Reinhardt H.C., Vander Heiden M.G., Thomas C., Staudt L.M., Zenz T. and Oellerich T. (2022) SHMT2 inhibition disrupts the TCF3 transcriptional survival program in Burkitt lymphoma. *Blood*, 139, 538-553.
- (78) Wolfer S., Kunzler A., Foos T., Ernst C., **Leha A.** and Schultze-Mosgau S. (2022) Gender and risk-taking behaviors influence the clinical presentation of oral squamous cell carcinoma. *Clin Exp Dent Res*, 8, 141-151.
- (79) Wörtz J., Smith V., Fallmann J., König S., Thuraisingam T., Walther P., **Urlaub H.**, Stadler P.F., Allers T., Hille F. and Marchfelder A. (2022) Cas1 and Fen1 Display Equivalent Functions During Archaeal DNA Repair. *Front Microbiol*, 13, 822304.
- (80) Yao Y., Kim G., Shafer S., Chen Z., Kubo S., Ji Y., Luo J., Yang W., Perner S.P., Kanellopoulou C., Park A.Y., Jiang P., Li J., Baris S., Aydiner E.K., Ertem D., Mulder D.J., Warner N., Griffiths A.M., Topf-Olivestone C., Kori M., Werner L., Ouahed J., Field M., Liu C., Schwarz B., Bosio C.M., Ganesan S., Song J., **Urlaub H.**, Oellerich T., Malaker S.A., Zheng L., Bertozzi C.R., Zhang Y., Matthews H., Montgomery W., Shih H.Y., Jiang J., Jones M., Baras A., Shuldiner A., Gonzaga-Jauregui C., Snapper S.B., Muise A.M., Shouval D.S., Ozen A., Pan K.T., Wu C. and Lenardo M.J. (2022) Mucus sialylation determines intestinal host-commensal homeostasis. *Cell*, 185, 1172-1188 e1128.

- (81) Yi S.H., Petrychenko V., Schliep J.E., Goyal A., Linden A., Chari A., **Urlaub H.**, Stark H., Rodnina M.V., Adio S. and Fischer N. (2022) Conformational rearrangements upon start codon recognition in human 48S translation initiation complex. *Nucleic Acids Res*, 50, 5282-5298. ❖
- (82) Zacharias H.U., **Altenbuchinger M.**, Schultheiss U.T., Raffler J., Kotsis F., Ghasemi S., Ali I., Kollerits B., Metzger M., Steinbrenner I., Sekula P., Massy Z.A., Combe C., Kalra P.A., Kronenberg F., Stengel B., Eckardt K.U., Köttgen A., Schmid M., Gronwald W. and Oefner P.J. (2022) A Predictive Model for Progression of CKD to Kidney Failure Based on Routine Laboratory Tests. *Am J Kidney Dis*, 79, 217-230 e211.
- (83) Zia A., Aziz M., Popa I., Khan S.A., Hamedani A.F. and **Asif A.R.** (2022) Artificial Intelligence-Based Medical Data Mining. *J Pers Med*, 12, 1359. ❖