

Arbeitsbericht PHD Biomedizin 2021

Publikationen

Hsu L, Wisplinghoff H, Kossow A, Hurraß J, Wiesmüller GA, Grüne B, Hoffmann D, Lüsebrink J, Demuth S, Schildgen O, Schildgen V. (2021) Limited protection against SARS-CoV-2 infection and virus transmission after mRNA vaccination. *J Infect.* 2022 Jan;84(1):94-118. doi: 10.1016/j.jinf.2021.06.023.

Demuth S, Damaschek S, Schildgen O, Schildgen V, (2021) Low sensitivity of SARSCoV-2 Rapid antigen self-tests under laboratory conditions, *New Microbes and New Infections*, <https://doi.org/10.1016/j.nmni.2021.100916>.

Friedmann, A., Winkler, M., Diehl, D., Yildiz, M. S., & Bilhan, H. (2021). One-year performance of posterior narrow diameter implants in hyperglycemic and normo-glycemic patients—a pilot study. *Clinical oral investigations*, 25(12), 6707-6715.

Dörnen J, Dittmar T. The Role of MSCs and Cell Fusion in Tissue Regeneration. *Int J Mol Sci.* 2021 Oct 12;22(20):10980.

Mese, Kemal; Bunz, Oskar; Volkwein, Wolfram; Sahithya P B Vemulapalli; Zhang, Wenli; et al. (2021) Enhanced Antiviral Function of Magnesium Chloride-Modified Heparin on a Broad Spectrum of Viruses. *International Journal of Molecular Sciences*; Basel Bd. 22, Ausg. 18,(2021): 10075. DOI:10.3390/ijms221810075.

Sallard E, Letourneur D, and Legendre P (2021). Electrophysiology of ionotropic GABA receptors. *Cellular and Molecular Life Sciences* 78 (13), 5341-5370.

Pembaur A, Sallard E, Weil PP, Ortelt J, Ahmad-Nejad P, and Postberg J (2021). Simplified point-of-care full SARS-CoV-2 genome sequencing using nanopore technology. *Microorganisms* 9 (12), 2598.

Weklak D., Pembaur D., Koukou G., Jönsson F., Hagedorn C., Kreppel F. (2021), Genetic and Chemical Capsid Modifications of Adenovirus Vectors to Modulate Vector–Host Interactions, *Viruses*, 13(7), 1300.

Giachero F, Jenke A, Zilbauer M. Improving prediction of disease outcome for inflammatory bowel disease: progress through systems medicine. *Expert Rev Clin Immunol.* 2021 Aug;17(8):871-881. doi: 10.1080/1744666X.2021.1945442. Epub 2021 Jun 28. PMID: 34142929; PMCID: PMC8903817.

Gasparetto M, Strisciuglio C, Assa A, Gerasimidis K, Giachero F, Novak J, Robinson P, Tél B, Zilbauer M, Jenke A. Making Research Flourish through ESPGHAN: A Position Paper from the ESPGHAN Special Interest Group for Basic and Translational Research. *J Pediatr Gastroenterol Nutr.* 2021 Jul 23. doi: 10.1097/MPG.0000000000003250. Epub ahead of print. PMID: 34310437.

Stuermer EK, Plattfaut I, **Dietrich M**, et al. *In vitro* Activity of Antimicrobial Wound Dressings on *P. aeruginosa* Wound Biofilm. *Front Microbiol.* 2021;12:664030. Published 2021 May 14. doi:10.3389/fmicb.2021.664030.

Abstracts / Poster

Diehl, D., Naumova, E., Arnold, WH. Thermocycling induces severe material wear in orthodontic sealants; CED-IADR/NOF Oral Health Research Congress 2021, Brussels.

Friedmann, A., Bilhan, H., Diehl, D. Narrow implants display negligible marginal bone loss in T2DM patients; CED-IADR/NOF Oral Health Research Congress 2021, Brussels.

Sallard E, Schellhorn S, Knocks M, Schulte L, Klimovitskii A, van den Boom A, Zhang W, Ehrhardt A, and Ehrke-Schulz E. Development of oncolytic and gene therapy vectors based on Adenovirus serotype 4 as an alternative to Adenovirus serotype 5. ESGCT Congress 2021.

Ehrke-Schulz E, Schulte L, Klimovitskii A, Sallard E, Zhang W, and Ehrhardt A. Comprehensive screening of reporter gene expressing adenoviral serotypes to explore their use as oncolytic/cancer gene therapy vectors in spheroid tumor models of HPV associated cancers. GfV Congress 2021.

Weklak D., Tisborn J., Mangold M., Jönsson F., Kreppel F., Generierung und Charakterisierung von SARS-CoV-2-Impfstoff-Kandidaten auf adenoviraler Basis, Tag der Forschung 2021, Witten.

Tisborn J., Weklak D., Jönsson F., Hagedorn C., Kreppel F., Etablierung einer adenovirus-basierten Proteinexpressionsplattform zur Expression und Reinigung von rekombinanten Proteinen in humanen Zellkulturen, Tag der Forschung 2021, Witten.

Giachero F, Weil P, Jiang P, Wirth S, Jenke A, Thymann T, Sangild P T, Postberg J. Differential microRNA profiles and enrichment of xenobiotic bovine microRNAs detected in whole intestinal wall samples of preterm pigs after feeding with infant formula compared to bovine colostrum; 6th World Congress of Pediatric Gastroenterology, Hepatology and Nutrition, Juni 2021, online aus Wien, Poster Präsentation.

Tagungen / Kongressbesuche

Diehl D. CED-IADR/NOF Oral Health Research Congress 2021 in Brussels, Belgium.

Drittmittel

Diehl D. "Stiftung Westermann-Westdorp Research Grant" (5.000 €).

Preise

Giachero, F. "Young Investigator Award" - verliehen durch die ESPGHAN - European Society for Pediatric Gastroenterology, Hepatology and Nutrition (für die Teilnahme am ESPGHAN Annual Meeting 2021, siehe oben)