

Publikationen - Dr. med. Benjamin Florian Koch

1. **Koch, B.**, Shehata, M., Müller-Ruttloff, C., Gouda, S. A., Wetzstein, N., Patyna, S., Scholz, A., Schmid, T., Dietrich, U., Münch, C., Ziebuhr, J., Geiger, H., Martinez-Sobrido, L., Baer, P. C., Mostafa, A. & Pleschka, S. Influenza A virus replicates productively in primary human kidney cells and induces factors and mechanisms related to regulated cell death and renal pathology observed in virus-infected patients. *Front. Cell. Infect. Microbiol.* **14**, 1363407 (2024).
2. **Koch, B.**, Filzmayer, M., Patyna, S., Wetzstein, N., Lampe, S., Schmid, T., Geiger, H., Baer, P. C. & Dolnik, O. Transcriptomics of Marburg virus-infected primary proximal tubular cells reveals negative correlation of immune response and energy metabolism. *Virus Res.* **342**, 199337 (2024).
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7. **Koch, B.**, Geßner, A., Farmand, S., Fuhrmann, D. C., Chiochetti, A. G., Schubert, R. & Baer, P. C. Effects of Hypoxia on RNA Cargo in Extracellular Vesicles from Human Adipose-Derived Stromal/Stem Cells. *Int J Mol Sci* 23, 7384 (2022).
8. Eden, G., Schmidt, J. J., Büttner, S., Kumpers, P., Hafer, C., Rovas, A., **Koch, B. F.**, Schmidt, B. M. W. & Kielstein, J. T. Safety and efficacy of the Seraph® 100 Microbind® Affinity Blood Filter to remove bacteria from the blood stream: results of the first in human study. *Crit Care* 26, 181 (2022).
9. Patyna, S., Eckes, T., **Koch, B.F.**, Sudowe, S., Oftring, A., Kohmer, N., Rabenau, H. F., Ciesek, S., Avaniadi, D., Steiner, R., Hauser, I. A., Pfeilschifter, J. M. & Betz, C. Impact of Moderna mRNA-1273 Booster Vaccine on Fully Vaccinated High-Risk Chronic Dialysis Patients after Loss of Humoral Response. *Vaccines* 10, 585 (2022).
10. Wetzstein, N., Kessel, J., Bingold, T. M., Carney, J., Graf, C., **Koch, B. F.**, Meier, F., Baumgarten, J., Küpper-Tetzel, C. P., Khodamoradi, Y., Wolf, T., Schüttfort, G., Vehreschild, M. J. G. T., Wichelhaus, T. A. & Stephan, C. High overall mortality of Mycobacterium genavense infections and impact of antimycobacterial therapy: Systematic review and individual patient data meta-analysis. *J Infection* 84, 8–16 (2022).
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12. Geßner, A., **Koch, B.**, Klann, K., Fuhrmann, D. C., Farmand, S., Schubert, R., Münch, C., Geiger, H. & Baer, P. C. Characterization of Extracellular Vesicles from Preconditioned Human Adipose-Derived Stromal/Stem Cells. *Int J Mol Sci* **22**, 2873 (2021).
13. Bojkova, D*, Klann, K*, **Koch, B***, Wiedera, M., Krause, D., Ciesek, S., Cinatl, J. & Münch, C. Proteomics of SARS-CoV-2-infected host cells reveals therapy targets. *Nature* **583**, 469–472 (2020). *contributed equally
14. Baer, P. C., **Koch, B.**, Freitag, J., Schubert, R. & Geiger, H. No Cytotoxic and Inflammatory Effects of Empagliflozin and Dapagliflozin on Primary Renal Proximal Tubular Epithelial Cells under Diabetic Conditions In Vitro. *Int J Mol Sci* **21**, 391 (2020).
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20. Hammer, F., Malzahn, U., Donhauser, J., Betz, C., Schneider, M. P., Grupp, C., Pollak, N., Störk, S., Wanner, C., Krane, V., Berweck, S., Biggar, P., Blaser, C., Bochanek, T., Breunig, F., Brunner, M., Büschges-Seraphin, B., Büttner, S., Cakmak, A., Donhauser, J., Döltz, T., Dörken, M., Eckardt, K.-U., Fink, H., Fischer, S., Freisinger, W., Freiwald, T., Gebhardt, J., Geiger, H., Götz, R., Goßmann, J., Grupp, C., Hammer, F., Hammerstingl, R., Harazny, J., Heckel, M., Heyd-Schramm, A., Hoyer, J., Janka, R., Jung, O., Ketteler, M., Klaeffling, C., Kleinert, C., Kleinert, M., Klingbeil, A., Klink, T., **Koch, B.-F.**, Kosowski, J., Krane, V., Leidig, M., Lutz, J., Marwan, M., Moritz, M., Moye, B., Naujoks, H., Netzer, K.-O., Raff, U., Reichert, C., Reimer, I., Ribel, J., Richter, S., Ritter, C., Rudolf, S., Schamberger, B., Schmid, M., Schmiedeke, T., Schmitt, A., Schneider, H., Schneider, M. P., Schneider, R., Schneuzer, C., Schöffauer, M., Schramm, L., Schütterle, S., Schwedler, S., Sobkowiak, E., Sollinger, D., Strutz, F., Toncar, S., Vasiljuk, V., Vogl, T., Walther, T., Weinmann-Menke, J., Wirth, B., Witsch, H., Würmell, P., Zeltner, R. & Zimmermann, J. A randomized controlled trial of the effect of spironolactone on left ventricular mass in hemodialysis patients. *Kidney International* **95**, 983-991, (2019).
21. Cai, C., **Koch, B.**, Morikawa, K., Suda, G., Sakamoto, N., Rueschenbaum, S., Akhras, S., Dietz, J., Hildt, E., Zeuzem, S., Welsch, C. & Lange, C. M. Macrophage-Derived Extracellular Vesicles Induce Long-Lasting Immunity Against Hepatitis C Virus Which Is Blunted by Polyunsaturated Fatty Acids. *Frontiers in Immunology* **9**, 196 (2018).
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