



## List of selected joint publications by German and Chinese SGVIVI members

- Starting from January 2019
- Within each year: by alphabetical order of first authors
- The SGVIVI members are underlined
- Only **Sino-German** joint publications are listed here ! For other publications from each SGVIVI member individually or only German, only Chinese: please check individually.

### 2022

**Daniel Habermann , Hadi Kharimzadeh, Andreas Walker, Yang Li, Rongge Yang, Rolf Kaiser, Zabrina L Brumme , Jörg Timm, Michael Roggendorf, Daniel Hoffmann**  
HAMdetector: A Bayesian regression model that integrates information to detect HLA-associated mutations  
Bioinformatics. 2022 Mar 3;btac134

**Li J, Kemper T, Broering R, Chen J, Yuan Z, Wang X, Lu M.**  
Interferon Alpha Induces Cellular Autophagy and Modulates Hepatitis B Virus Replication.  
Front Cell Infect Microbiol. 2022 Feb 2;12:804011.

**Meng Z, Liu J, Kosinska AD, Lu M**  
Targeting the Immune System to Treat Hepatitis B Virus Infection  
Front Immunol 2022 Mar 15;13:868616. (Editorial)

**Schuhenn J, Meister TL, Todt D, Bracht T, Schork K, Billaud JN, Elsner C, Heinen N , Karakoese Z, Haid S, Kumar S, Brunotte L, Eisenacher M, Di Y, Lew J , Falzarano D, Chen J, Yuan Zh, Pietschmann T, Wiegmann B, Uebner H, Taube C, Le-Trilling VTK, Trilling M, Krawczyk A, Ludwig S, Sitek B, Steinmann E, Dittmer U, Lavender KJ, Sutter K, Pfaender S**  
Differential interferon- $\alpha$  subtype induced immune signatures are associated with suppression of SARS-CoV-2 infection  
Proc Natl Acad Sci U S A . 2022 Feb 22;119(8):e2111600119.

**Xiaohong Xie, Zehra Karakoese, Dilhumare Ablikim, Julia Ickler, Jonas Schuhenn, Xiaoqing Zeng, Xuemei Feng, Xuecheng Yang, Ulf Dittmer, Dongliang Yang, Kathrin Sutter, Jia Liu**

IFN $\alpha$  subtype-specific susceptibility of HBV in the course of chronic infection  
Front Immunol 2022 Oct 14;13:1017753.

**Xie X, Luo J, Zhu D, Zhou W, Yang X, Feng X, Lu M, Zheng X, Dittmer U, Yang D, Liu J.**  
HBeAg Is Indispensable for Inducing Liver Sinusoidal Endothelial Cell Activation by Hepatitis B Virus.

Front Cell Infect Microbiol. 2022 Jan 31;12:797915.

**Yue Zhang, Hu Yan, Xian Li, Dihan Zhou, Maohua Zhong, Jingyi Yang, Bali Zhao, Xuxu Fan, Jun Fan, Jiayi Shu, Mengji Lu, Xia Jin, Ejuan Zhang, Huimin Yan**

A high-dose inoculum size results in persistent viral infection and arthritis in mice infected with chikungunya virus

PLoS Negl Trop Dis. 2022 Jan 31;16(1):e0010149.

## 2021

**Broering R, Luo X, Liu J, Lu M.**

Controversial: Early Innate Responses to Hepatitis B Virus Infection, an Explanation for Viral Persistence?

Virol Sin. 2021 Feb;36(1):163-166.

**Chen J, Li Y, Lai F, Wang Y, Sutter K, Dittmer U, Ye J, Zai W, Liu M, Shen F, Wu M, Hu K, Li B, Lu M, Zhang X, Zhang J, Li J, Chen Q, Yuan Z.**

Functional Comparison of Interferon- $\alpha$  Subtypes Reveals Potent Hepatitis B Virus Suppression by a Concerted Action of Interferon- $\alpha$  and Interferon- $\gamma$  Signaling.

Hepatology. 2021 Feb;73(2):486-502.

**Du Y, Anastasiou OE, Strunz B, Scheuten J, Bremer B, Kraft A, Kleinsimlinhaus K, Todt D, Broering R, Hardtke-Wolenski M, Wu J, Yang D, Dittmer U, Lu M, Cornberg M, Björkström NK, Khera T, Wedemeyer H.**

The impact of hepatitis B surface antigen on natural killer cells in patients with chronic hepatitis B infection.

Liver Int. 2021 Apr 1.

**Du Y, Yang X, Li J, Sokolova V, Zou S, Han M, Yan H, Wey K, Lu M, Dittmer U, Yang D, Epple M, Wu J.**

Delivery of toll-like receptor 3 ligand poly(I:C) to the liver by calcium phosphate nanoparticles conjugated with an F4/80 antibody exerts an anti-hepatitis B virus effect in a mouse model.

Acta Biomater. 2021Feb 1:S1742-7061(21)00073-8.

**Huang H, Rückborn M, Le-Trilling VTK, Zhu D, Yang S, Zhou W, Yang X, Feng X, Lu Y, Lu M, Dittmer U, Yang D, Trilling M, Liu J.**

Prophylactic and therapeutic HBV vaccination by an HBs-expressing cytomegalovirus vector lacking an interferon antagonist in mice.

Eur J Immunol. 2021 Feb;51(2):393-407

**Li Q, Wang J, Islam H, Kirschning C, Lu H, Hoffmann D, Dittmer U, Lu M.**

Hepatitis B virus particles activate B cells through the TLR2-MyD88-mTOR axis.

Cell Death Dis. 2021 Jan 4;12(1):34

**Jia Liu, Xuecheng Yang, Hua Wang, Ziwei Li, Hui Deng, Jing Liu, Shue Xiong, Junyi He, Xuemei Feng, Chunxia Guo, Weixian Wang, Gennadiy Zelinskyy, Mirko Trilling, Kathrin Sutter, Tina Senff, Christopher Menne, Joerg Timm, Yanfang Zhang, Fei Deng, Yinping Lu, Jun Wu, Mengji Lu, Dongliang Yang, Ulf Dittmer, Baoju Wang, and Xin Zheng.**

Analysis of the long-term impact on cellular immunity in COVID-19 recovered individuals reveals a profound NKT cell impairment.

mBio 2021 Apr 27;12(2):e00085-21.

**Luo X, Zhang R, Lu M, Liu S, Baba HA, Gerken G, Wedemeyer H, Broering R.**

Hippo Pathway Counter-Regulates Innate Immunity in Hepatitis B Virus Infection.

Front Immunol. 2021 May 25;12:684424.

**Wu J, Liang B, Chen C, Wang H, Fang Y, Shen S, Yang X, Wang B, Chen L, Chen Q, Wu Y, Liu J, Yang X, Li W, Zhu B, Zhou W, Wang H, Li S, Lu S, Liu D, Li H, Krawczyk A, Lu M, Yang D, Deng F, Dittmer U, Trilling M, Zheng X.**

SARS-CoV-2 infection induces sustained humoral immune responses in convalescent patients following symptomatic COVID-19.

Nat Commun. 2021 Mar 22;12(1):1813.

**Wu J, Liang B, Fang Y, Wang Hua, Yang X, Shen Sh, Chen L, Li S, Lu S, Xiang T, Liu J, Le-Trilling VTK, Lu M, Yang D, Deng F, Dittmer U, Trilling M, Zheng X**

Occurrence of COVID-19 Symptoms During SARS-CoV-2 Infection Defines Waning of Humoral Immunity

Front. Immunol., 16 August 2021

**Xiang T, Liang B, Fang Y, Lu S, Li S, Wang H, Li H, Yang X, Shen S, Zhu B, Wang B, Wu J, Liu J, Lu M, Yang D, Dittmer U, Trilling M, Deng F, Zheng X**

Declining Levels of Neutralizing Antibodies Against SARS-CoV-2 in Convalescent COVID-19 Patients One Year Post Symptom Onset

Front Immunol. 2021 Jun 16;12:708523.

**Xie X, Luo J, Broering R, Zhu D, Zhou W, Lu M, Zheng X, Dittmer U, Yang D, Liu J.**

HBeAg induces liver sinusoidal endothelial cell activation to promote intrahepatic CD8 T cell immunity and HBV clearance.

Cell Mol Immunol. 2021 Nov;18(11):2572-2574.

**Li Zhou, Rui He, Peining Fang, Mengqi Li, Haisheng Yu, Qiming Wang, Yi Yu, Fubing Wang, Yi Zhang, Aidong Chen, Nanfang Peng, Yong Lin, Rui Zhang, Mirko Trilling, Ruth Broering, Mengji Lu, Ying Zhu, Shi Liu**

Hepatitis B virus rigs the cellular metabolome to avoid innate immune recognition

Nat Commun. 2021 Jan 4;12(1):98.

**Zou S, Du Y, Huang S, Chen M, Yang X, Li S, Chen Y, Han M, Li J, Yu Q, Littwitz-Salomon E, Huang H, Trilling M, Liu S, Pei R, Liu J, Wang B, Zheng X, Lu M, Dittmer U, Sun S, Yang D, Wu J.**

Simultaneous or prior activation of intrahepatic type I interferon signaling leads to hepatitis B virus persistence in a mouse model.

J Virol. 2021 Sep 22:e0003421. doi: 10.1128/JVI.00034-21. Online ahead of print.

2020

**Chen J, Li Y, Lai F, Wang Y, Sutter K, Dittmer U, Ye J, Zai W, Liu M, Shen F, Wu M, Hu K, Li B, Lu M, Zhang X, Zhang J, Li J, Chen Q, Yuan Z.**

Functional Comparison of IFN- $\alpha$  Subtypes Reveals Potent HBV Suppression by a Concerted Action of IFN- $\alpha$  and - $\gamma$  Signaling.

Hepatology. 2020 Apr 25.

**David P, Drabczyk-Pluta M, Pastille E, Knuschke T, Werner T, Honke N, Megger DA, Akhmetzyanova I, Shaabani N, Eyking-Singer A, Cario E, Kershaw O, Gruber AD, Tenbusch M, Dietze KK, Trilling M, Liu J, Schadendorf D, Streeck H, Lang KS, Xie Y, Zimmer L, Sitek B, Paschen A, Westendorf AM, Dittmer U, Zelinskyy G.**

Combination immunotherapy with anti-PD-L1 antibody and depletion of regulatory T cells during acute viral infections results in improved virus control but lethal immunopathology.

PLoS Pathog. 2020 Mar 30;16(3):e1008340.

**Christiane Silke Heilingloh, Ulrich Wilhelm Aufderhorst, Leonie Schipper, Ulf Dittmer, Oliver Witzke, Dongliang Yang, Xin Zheng, Kathrin Sutter, Mirko Trilling, Mira Alt, Eike Steinmann, Adalbert Krawczyk**

Susceptibility of SARS-CoV-2 to UV irradiation

Am J Infect Control 2020 Oct;48(10):1273-1275.

**Li M, Xiong Y, Li M, Zhang W, Liu J, Zhang Y, Xiong S, Zou C, Liang B, Lu M, Yang D, Peng C, Zheng X.**

Depletion but Activation of CD56<sup>dim</sup>CD16<sup>+</sup> NK Cells in Acute Infection with Severe Fever with Thrombocytopenia Syndrome Virus.

Virology. 2020 Oct;35(5):588-598.

**Lin Y, Wu C, Wang X, Liu S, Zhao K, Kemper T, Yu H, Li M, Zhang J, Chen M, Zhu Y, Chen X, Lu M.**

Glucosamine promotes hepatitis B virus replication through its dual effects in suppressing autophagic degradation and inhibiting MTORC1 signaling.

Autophagy. 2020 Mar;16(3):548-561.

**Liu A, Wang W, Zhao X, Zhou X, Yang D, Lu M, Lv Y.**

Disappearance of antibodies to SARS-CoV-2 in a -COVID-19 patient after recovery.

Clin Microbiol Infect. 2020 Dec;26(12):1703-1705.

**Liu J, Li S, Liu J, Liang B, Wang X, Wang H, Li W, Tong Q, Yi J, Zhao L, Xiong L, Guo C, Tian J, Luo J, Yao J, Pang R, Shen H, Peng C, Liu T, Zhang Q, Wu J, Xu L, Lu S, Wang B, Weng Z, Han C, Zhu H, Zhou R, Zhou H, Chen X, Ye P, Zhu B, Wang L, Zhou W, He S, He Y, Jie S, Wei P, Zhang J, Lu Y, Wang W, Zhang L, Li L, Zhou F, Wang J, Dittmer U, Lu M, Hu Y, Yang D, Zheng X.**

Longitudinal characteristics of lymphocyte responses and cytokine profiles in the peripheral blood of SARS-CoV-2 infected patients.

EBioMedicine. 2020 Apr 18;55:102763.

**Liu J, Zheng X, Tong Q, Li W, Wang B, Sutter K, Trilling M, Lu M, Dittmer U, Yang D.**

Overlapping and discrete aspects of the pathology and pathogenesis of the emerging human pathogenic coronaviruses SARS-CoV, MERS-CoV, and 2019-nCoV.

J Med Virol. 2020 May;92(5):491-494. (Review)

**Rojas-Sánchez L, Zhang E, Sokolova V, Zhong M, Yan H, Lu M, Li Q, Yan H, Epple M.**

Genetic immunization against hepatitis B virus with calcium phosphate nanoparticles in vitro and in vivo.

Acta Biomater. 2020 Jul 1;110:254-265.

**Ross JA, Malyshkina A, Otto L, Liu J, Dittmer U.**

Inhibition of IL-2 or NF- $\kappa$ B Subunit c-Rel-Dependent Signaling Inhibits Expansion of Regulatory T Cells During Acute Friend Retrovirus Infection.  
Viral Immunol. 2020 Jun;33(5):353-360.

**Wang Q, Fang P, He R, Li M, Yu H, Zhou L, Yi Y, Wang F, Rong Y, Zhang Y, Chen A, Peng N, Lin Y, Lu M, Zhu Y, Peng G, Rao L, Liu S.**

*O*-GlcNAc transferase promotes influenza A virus-induced cytokine storm by targeting interferon regulatory factor-5.  
Sci Adv. 2020 Apr 15;6(16):eaaz7086.

**Wang S, Trilling M, Sutter K, Dittmer U, Lu M, Zheng X, Yang D, Liu J.**

A Crowned Killer's Résumé: Genome, Structure, Receptors, and Origin of SARS-CoV-2.  
Virol Sin. 2020 Oct 17;1-12. (Review)

**Wang X, Lin Y, Kemper T, Chen J, Yuan Z, Liu S, Zhu Y, Broering R, Lu M.**

AMPK and Akt/mTOR signalling pathways participate in glucose-mediated regulation of hepatitis B virus replication and cellular autophagy.  
Cell Microbiol. 2020 Feb;22(2):e13131.

**Wang X, Lin Y, Liu S, Zhu Y, Lu K, Broering R, Lu M.**

O-GlcNAcylation modulates HBV replication through regulating cellular autophagy at multiple levels  
FASEB J. 2020 Nov;34(11):14473-14489.

**Weng Z, Chen Q, Li S, Li H, Zhang Q, Lu S, Wu L, Xiong L, Mi B, Liu D, Lu M, Yang D, Jiang H, Zheng S, Zheng X.**

ANDC: an early warning score to predict mortality risk for patients with Coronavirus Disease 2019.  
J Transl Med. 2020 Aug 31;18(1):328.

**Jaana Westmeier, Krystallenia Paniskaki, Zehra Karaköse, Tanja Werner, Kathrin Sutter, Sebastian Dolf, Marvin Overbeck, Andreas Limmer, Jia Liu, Xin Zheng, Thorsten Brenner, Marc M Berger, Oliver Witzke, Mirko Trilling, Mengji Lu, Dongliang Yang, Nina Babel, Timm Westhoff, Ulf Dittmer, Gennadiy Zelinskyy**

Impaired Cytotoxic CD8 + T Cell Response in Elderly COVID-19 Patients  
mBio. 2020 Sep 18;11(5):e02243-20.

**Xu L, Liu J, Lu M, Yang D, Zheng X.**

Liver injury during highly pathogenic human coronavirus infections.  
Liver Int. 2020 May;40(5):998-1004.

**Yan H, Zhong M, Yang J, Guo J, Yu J, Yang Y, Ma Z, Zhao B, Zhang Y, Wang J, Wu C, Dittmer U, Yang D, Lu M, Zhang E, Yan H.**

TLR5 activation in hepatocytes alleviates the functional suppression of intrahepatic CD8+ T cells.  
Immunology. 2020 Dec;161(4):325-344.

**Yu H, Li M, He R, Fang P, Wang Q, Yi Y, Wang F, Zhou L, Zhang Y, Chen A, Peng N, Liu D, Trilling M, Broering R, Wiemer EAC, Lu M, Zhu Y, Liu S.**

Major Vault Protein Promotes Hepatocellular Carcinoma Through Targeting Interferon Regulatory Factor 2 and Decreasing p53 Activity.  
Hepatology. 2020 Aug;72(2):518-534.

2019

**Barnowski C, Kadzioch N, Damm D, Yan H, Temchura V**

Advantages and Limitations of Integrated Flagellin Adjuvants for HIV-Based Nanoparticle B-Cell Vaccines.

Pharmaceutics. 2019 May 1;11(5).

**David P, Megger DA, Kaiser T, Werner T, Liu J, Chen L, Sitek B, Dittmer U, Zelinsky G.**

The PD-1/PD-L1 Pathway Affects the Expansion and Function of Cytotoxic CD8<sup>+</sup> T Cells During an Acute Retroviral Infection.

Front Immunol. 2019 Feb 5;10:54.

**Li, Q., Zhang, E., Yan, Y., Liu, J., Huang, X., Zhang, X., Kirschning, C., Xu, H., Lang, P., Dittmer, U., Lu, M.**

Toll-like receptor 7 activation enhances CD8<sup>+</sup> T cell effector functions by promoting cellular glycolysis.

Front. Immunol., 2019, 10:2191.

**Lin, Y., Wu, C., Wang, X., Kemper, T., Squire, A., Gunzer, M., Zhang, J., Chen, X., Lu, M.**

Hepatitis B virus is degraded by autophagosome-lysosome fusion mediated by Rab7 and related components.

Protein Cell. 2019 Jan;10(1):60-66.

**Lin Y, Wu C, Wang X, Liu S, Kemper T, Li F, Squire A, Zhu Y, Zhang J, Chen X, Lu M.**

Synaptosomal-associated protein 29 is required for the autophagic degradation of hepatitis B virus.

FASEB J. 2019 May;33(5):6023-6034.

**Lin, Y., Wu, C., Wang, X., Liu, S., Zhao, K., Kemper, T., Yu, H., Li, M., Zhang, J., Chen, M., Zhu, Y., Chen, X., Lu, M.**

Glucosamine promotes HBV replication through its dual effects on suppressing autophagic degradation and inhibiting mTORC1 signaling.

Autophagy, 2019, 23:1-14.

**Liu S, Liu L, Xu G, Cao Z, Wang Q, Li S, Peng N, Yin J, Yu H, Li M, Xia Z, Zhou L, Lin Y, Wang X, Li Q, Zhu C, Yang X, Wang J, She Y, Lu M, Zhu Y.**

Epigenetic Modification Is Regulated by the Interaction of Influenza A Virus Nonstructural Protein 1 with the *De Novo* DNA Methyltransferase DNMT3B and Subsequent Transport to the Cytoplasm for K48-Linked Polyubiquitination.

J Virol. 2019 Mar 21;93(7):e01587-18.

**Liu Y, Wu C, Chen R, Li X, Xu Z, Li Q, Li L, Wang FS, Yang D, Lu M, Xu D.**

Molecular cloning and phenotypic analysis of drug-resistance mutants with relevant S-region variants of HBV for a patient during 189-month anti-HBV treatment. Antivir Ther. 2019;24(4):237-246.

**Sokolova V, Shi Z, Huang S, Du Y, Kopp M, Frede A, Knuschke T, Buer J, Yang D, Westendorf AM, Epple M**

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Biomed Tech (Berl). 2019 Feb 1;64(s1):36-40.

**Wu J, Han M, Li J, Yang X, Zhen X, Schlaak JF, Yang D, Lu M.**

Pattern Recognition Receptors and Liver Failure.

Crit Rev Immunol. 2019;39(4):289-311. (Review)

**Xu G, Xia Z, Deng F, Liu L, Wang Q, Yu Y, Wang F, Zhu C, Liu W, Cheng Z, Zhu Y, Zhou L, Zhang Y, Lu M, Liu S.**

Inducible LGALS3BP/90K activates antiviral innate immune responses by targeting TRAF6 and TRAF3 complex.

PLoS Pathog. 2019 Aug 12;15(8):e1008002.

**Yao Y, Yang B, Chen Y, Wang H, Hu X, Zhou Y, Gao X, Lu M, Niu J, Wen Z, Wu C, Chen X.**

RNA-Binding Motif Protein 24 (RBM24) Is Involved in Pregenomic RNA Packaging by Mediating Interaction between Hepatitis B Virus Polymerase and the Epsilon Element.

J Virol. 2019 Mar 5;93(6):e02161-18.

**Yang S, Wang L, Pan W, Bayer W, Thoens C, Heim K, Dittmer U, Timm J, Wang Q, Yu Q, Luo J, Liu Y, Hofmann M, Thimme R, Zhang X, Chen H, Wang H, Feng X, Yang X, Lu Y, Lu M, Yang D, Liu J**

MMP2/MMP9-mediated CD100 shedding is crucial for inducing intrahepatic anti-HBV CD8 T cell responses and HBV clearance.

J Hepatol. 2019 Oct;71(4):685-698.

**Yu H, Li M, He R, Fang P, Wang Q, Yu Y, Wang F, Zhou L, Zhang Y, Chen A, Peng N, Liu D, Trilling M, Broering R, Wiemer EAC, Lu M, Zhu Y, Liu S.**

Major Vault Protein Promotes Hepatocellular Carcinoma Through Targeting Interferon Regulatory Factor 2 and Decreasing p53 Activity.

Hepatology. 2019 Nov 23.

**Zhang E, Yan H, Li Q, Dittmer U, Yan H, Lu M.**

Activation of the TLR signaling pathway in CD8+ T cells counteracts liver endothelial cell-induced T cell tolerance.

Cell Mol Immunol. 2019 Sep;16(9):774-776.

**Zhang E, Ma Z, Li Q, Yan H, Liu J, Wu W, Guo J, Zhang X, Kirschning CJ, Xu H, Lang PA, Yang D, Dittmer U, Yan H, Lu M.**

TLR2 Stimulation Increases Cellular Metabolism in CD8+ T Cells and Thereby Enhances CD8+ T Cell Activation, Function, and Antiviral Activity.

J Immunol. 2019 Dec 1;203(11):2872-2886.