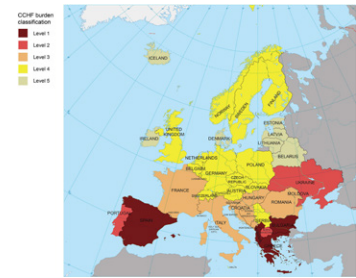


REVIEW

- 493 Crimean-Congo hemorrhagic fever: An emerging threat in Europe

Mohammad Fereidouni, Jens H. Kuhn, David B. Pecor, Dmitry A. Apanaskevich, Kurtesh Sherifi, Jelena Protić, Teodora Karevska, Golubinka Boshevska, María Paz Sánchez-Seco, Anna Papa, Maryam Keshtkar-Jahromi

493

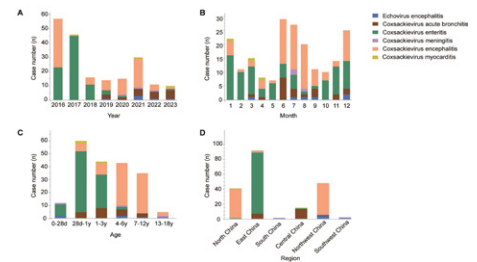


RESEARCH ARTICLES

- 513 The epidemiology and disease burden of enterovirus infections among hospitalized children in China: An 8-year national cross-sectional study

Yi Wang, Fei Li, Hui Xu, Yiliang Fu, Guoshuang Feng, Hanwen Zhang, Juan Huang, Zhengde Xie, Xiangpeng Chen

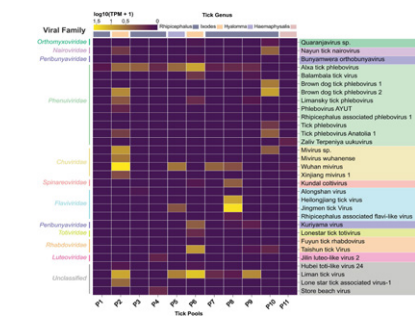
513



- 523 Metagenomic and serological evidence of emerging tick-borne viruses in livestock, humans, and rats in Pakistan

Muhammad Ammar, Yaohui Fang, Muhammad Saqib, Jian Xiao, Awais-Ur-Rahman Sial, Qiaoli Wu, Muhammad Khalid Mansoor, Xiaoli Wu, Muhammad Moazz, Muhammad Usama Butt, Rehman Hafeez, Kashif Iqbal, Ali Zohaib, Shu Shen, Fei Deng

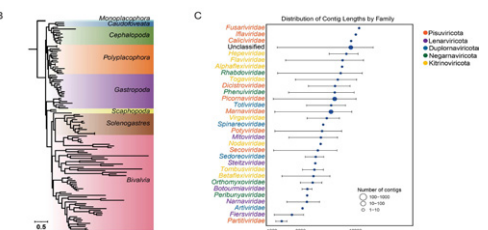
523



- 532 A comprehensive RNA virome from molluscan transcriptomes reveals extensive diversity and modular genome evolution

Jiaxiang Li, Kewei Chen, Xin Chen, Kaiyang Zheng, Shujuan Sun, Hao Yu, Yue Dong, Ziyue Wang, Yixuan Xu, Andrew McMinn, Yeong Yik Sung, Wen Jye Mok, Li Lian Wong, Yantao Liang, Min Wang

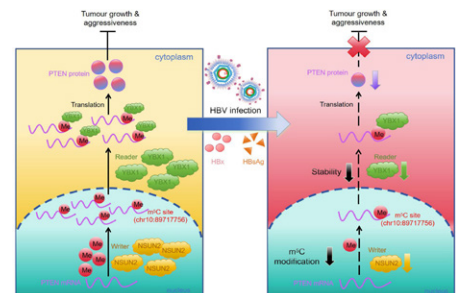
532



- 543 Hepatitis B virus promotes hepatocellular carcinoma progression by disrupting NSUN2/YBX1-mediated m⁵C modification of *PTEN* mRNA

Mengxian Lin, Kunqi Chen, Hang Li, Xinjian Lin, Shuxiang Wu, Xu Lin

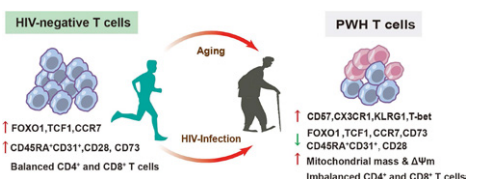
543



- 561 Immune profile and mitochondrial alterations driven by age and HIV infection: Associations with T-cell senescence in people with HIV receiving suppressive antiretroviral therapy

Junyan Jin, Xin Zhang, Qianqian Xu, Wei Xia, Hongxia Yan, Hao Wu, Christiane Moog, Tong Zhang, Bin Su

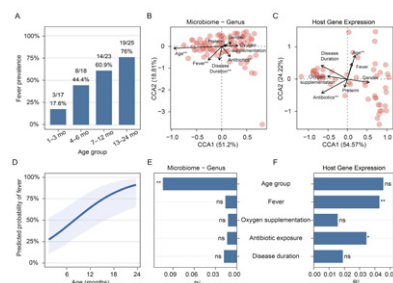
561



- 574 Age-related pharyngeal microbiome and host transcriptomic signatures underlying fever responses in RSV bronchiolitis

Ying Li, Jingyuan Zhang, Haizhou Liu, Muhammad Noman, Muhammad Arif Rizwan, Ismaila Damilare Isiaka, Hebin Chen, Wenqing Li, Nan Zhao, Yan Li, Yamin Sun, Xiaoxia Lu, Di Liu, Yi Yan

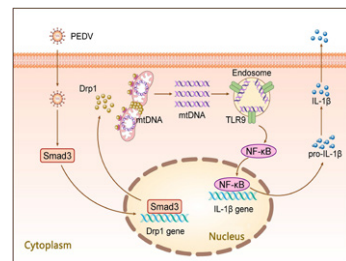
574



- 586 Induction of mitochondrial fission and mtDNA leakage via the Smad3/Drp1 axis by PEDV infection activates the TLR9/NF- κ B/IL-1 β inflammatory pathway

Hangao Xie, Jinlian Guan, Fengjie Tian, Ting Xiong, Haixia Feng, Fei Xu, Ziqing Zhou, Dongsheng He, Dingxiang Liu, Ruiai Chen

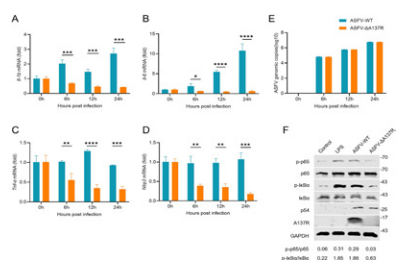
586



- 602 ASFV pA137R protein triggers inflammatory response by inducing NF- κ B signaling pathway and facilitating NLRP3 inflammasome assembly

Yi Zeng, Xiaohong Liu, Siqi Dong, Hanyu Wu, Li Huang, Changjiang Weng

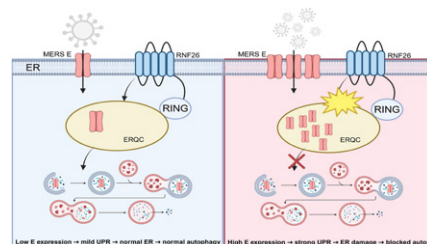
602



- 612 RNF26 bridges ER stress and autophagy in the clearance of MERS envelope protein

Ziyue Li, Yang Wang, Jingbo Qie, Shuangqu Li, Zhaobing Gao, Hin Chu, Bingqing Xia

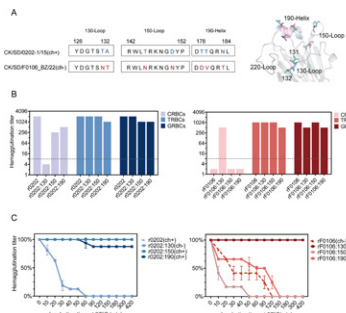
612



- 624 Dominant HA motif 131/132-NT shapes the phenotype of avian H9N2 influenza virus by modulating agglutination property, receptor specificity and infectivity in animals

Xue Chen, Jinze Dong, Chuankuo Zhao, Linlin Wang, Xinyang Gao, Zhixin Li, Honglei Sun, Yipeng Sun, Jinhua Liu, Rui Zhang, Juan Pu

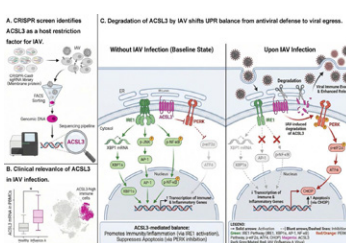
624



- 638 Degradation of ACSL3 by influenza A virus shifts unfolded protein response from antiviral defense to viral evasion

Shuoxuan Zhao, Yichao Chen, Tianxin Zhang, Yaoyao Gao, Jing Wu, Fangji Yang, Yongxiang Liu, Xuesong Liu, Nan Qi

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- 651 EV-A71 induces GSDME-dependent T-cell pyroptosis: A novel mechanism and MeCbl therapeutic potential

Chong Wang, Bingyu Guo, Yilin Li, Xi Zhou, Zongqiang Cui, Yujie Ren

- 662 Antiviral activity of Saponin C from *Liriope muscari* against influenza A virus and SARS-CoV-2

Yuhan Gong, Junwen Liu, Wenxuan Ding, Yuxing Yan, Xue Hu, Gary Wong, Huaijie Jia, Zhengxiang Wang, Xin Li, Jiayi Chen, Xin Zhang, Chao Shan, Shuai Xu, Xiaoxia Wang

- 676 Therapeutic efficacy of a K1-specific bacteriophage against hypervirulent *Klebsiella pneumoniae* in a mouse infection model

Xiaona Yan, Mengmeng Su, Sixiang Xu, Xiangkuan Zheng, Xiaoyue Li, Peifan Liu, Yilin Fang, Libin Tan, Long Chen, Hong Du, Panpan Tong, Yuxia Zhang, Qinghai Ren, Wei Zhang

- 688 A C-type single-domain antibody with protective efficacy against H1N1 via respiratory administration

Bihao Wu, Haiwei Zhang, Xiangxing He, Zhe Zhang, Xiaohui Liu, Rui Gong

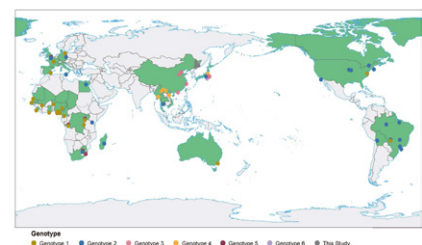
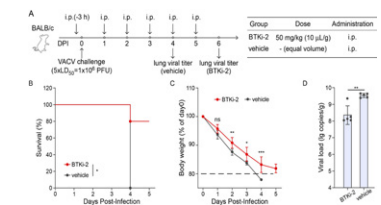
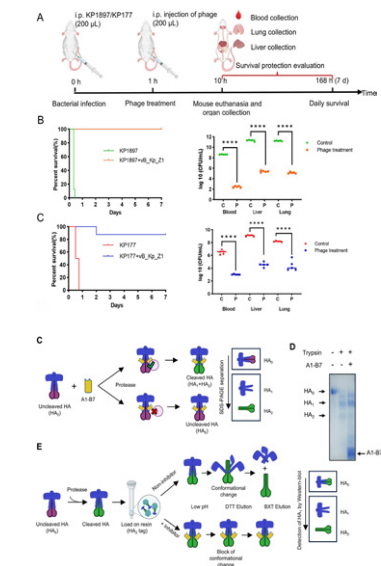
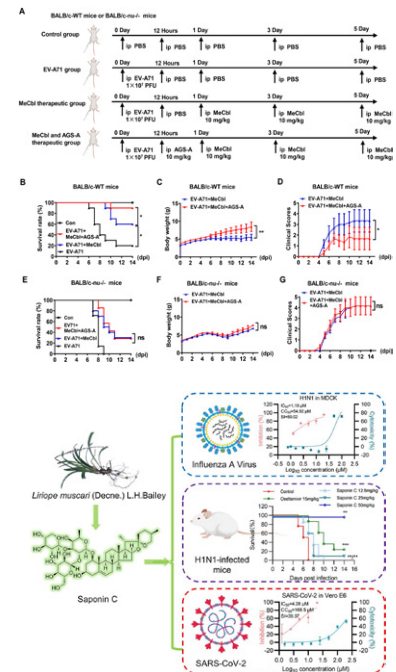
- 700 Bruton's tyrosine kinase inhibitor BTKi-2 inhibits mpox virus and vaccinia virus infection

Chen Yang, Runchu Zhao, Shuting Huo, Yaqing Zhang, Jingxi Feng, Mingli Gong, Lin Zhu, Conggang Zhang, Linqi Zhang, Jing Xue, Rong Zhang, Qihui Wang, Qiang Ding

LETTERS

- 711 Identification and geographic evolutionary analysis of human pegivirus infection based on metatranscriptomic sequencing

Shan Lu, Pei-Yu Zhen, Cai Bian, Ming-Zhu Zhang, Nan-Nan Yao, Xiao-Ling Su, Yu-Tong Huang, Chen Shan, Jia-Yi Pan, Lin Zhao, Yuan-Chun Zheng, Jia-Fu Jiang, Xiao-Min Zheng, Run-Ze Ye, Wu-Chun Cao



716 The guanosine nucleotide analog bemnifosbuvir inhibits hepatitis E virus infection in cell and organoid models

Kuan Liu, Yang Wang, Xincheng Li, Yilan Zhao, Luc J.W. van der Laan, Pengfei Li, Qiuwei Pan

720 A ferritin nanoparticle-displayed spike protein-based ELISA for serological surveillance and immune evaluation of porcine deltacoronavirus

Rui Geng, Hanqin Shen, Duan Li, Shengjin Liu, Siying Zeng, Feng Chen, Hao Zhang, Yongchang Cao

724 Development of a replicon cell line-based high throughput antiviral assay for screening inhibitors of Mayaro virus

Ya-Nan Zhang, Yan-Ning Hu, Yu-Jia Lu, Xiao-Dan Li, Ana Carolina Gomes Jardim, Bo Zhang

728 First complete genomic sequencing of recent canine rabies viruses in Sierra Leone suggests cross-border transmission of Africa 2H subclade

Sheng Sun, Abdul Gudush Jalloh, Jinxia Zhang, Shuo Yu, Xiankai Liu, Weidi Xu, Yan Liu, Changchun Tu, Ye Feng

CORRIGENDUM

732 Corrigendum to “Integrated multiplex PCR and metatranscriptomics reveal upper-lower airway microbial landscapes in pediatric respiratory infections” [Virologica Sinica 41 (2026) 58–69]

Peilan Wei, Lu Zhang, Qingtao Hu, Airu Zhu, Zhen Zhuang, Zhaoyong Zhang, Shengnan Zhang, Jiantao Chen, Xinyi Xiong, Bin Qu, Yuanyuan Zhang, Lei Chen, Zhiwei Xu, Zhao Chen, Qier Zhong, Xindan Xing, Xinxin Li, Jingjing Gao, Yifang He, Guifei Xie, Juan Shang, Xiaoke Guo, Jiaxin Jiang, Yongxia Shi, Jingxian Zhao, Yanqun Wang, Jincun Zhao, Yingkang Jin



COVER

Hepatitis B virus (HBV) contributes to the progression of hepatocellular carcinoma (HCC), in part through regulation of the tumor suppressor PTEN. Although the transcriptional control of PTEN by HBV has been well characterized, its post-transcriptional regulation remains largely unclear. In this issue, Lin et al. identified that the m⁵C methyltransferase NSUN2 catalyzes m⁵C modification of PTEN mRNA at chr10:89717756, while the reader protein YBX1 recognizes and binds to the modified transcript, thereby enhancing its stability. Further evidence indicates that viral proteins HBsAg and HBx suppress the expression of NSUN2 and YBX1, leading to reduced m⁵C modification, decreased PTEN mRNA stability, and diminished PTEN protein levels, ultimately promoting HBV-associated HCC progression. The cover image depicts an HBV “army” attacking “Liver City.” The m⁵C modification acts as a protective “shield” for the PTEN “soldiers”. Once this protective shield is pierced by viral invaders, PTEN function is markedly impaired, leaving the entire “Liver City” in peril (Cover art kindly designed and provided by Prof. Xu Lin, Dr. Shuxiang Wu, and Dr. Mengxian Lin). See page 543–560 for details.

