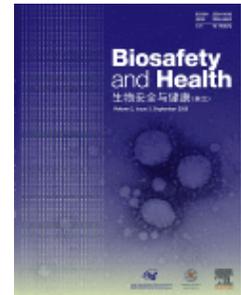




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DESCRIPTION

Biosafety and Health is an open access, peer-reviewed journal sponsored by the Chinese Medical Association, managed by National Institute for Viral Disease Control and Prevention, Chinese Center for Disease Control and Prevention (China CDC). This journal aims to publish original research findings and thoughts in any aspect connected with public health and biosafety. Topics include but are not limited to: Identification and characterization of biological threats; Origin, transmission, and evolution of biological agents; Surveillance, risk assessment, and early-warning; Prevention, diagnosis, and therapeutics; Synthetic biotechnology, genome editing, and other new biotechniques; Policies and standards.

Biosafety and Health is published quarterly in English language. Article types include Original Research, Reviews, Perspectives, Correspondence, Case Report, News and Views, Highlights, Comments and policy forum, etc.

ABSTRACTING AND INDEXING

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Research on the prevention and control of infectious diseases, in addition to the treatment and traceability of major emergency infectious diseases, Research on the management of laboratory biosafety.

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Biosafety, infectious disease

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Epidemiology and control of emerging and re-emerging zoonotic and vector-borne diseases.

Xinwen Chen, Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences, Guangzhou, Guangdong, Guangzhou, China

Virology, Research on molecular epidemiology, molecular biology, anti-drug mechanism, virus host (cell) interaction, etc.

David. R. Franz, Kansas State University, Manhattan, Kansas, United States

Bench research related to small vessel physiology, cold injury; Medical countermeasures for infectious disease, chemical warfare agents and biological toxins

William J. Liu, National Institute for Viral Disease Control and Prevention, Beijing, China

The prevention and control of influenza viruses and the T-cell recognition.

Jiancheng Qi, National Bio-Protection Engineering Center of China, China, China

Bio-protection technology and equipment.

Chuan Qin, Chinese Academy of Medical Sciences Institute of Laboratory Animal Sciences, Chaoyang District, China

Experimental pathology, animal models for human disease, comparative medicine and infectious diseases.

Xiangguo Qiu, University of Manitoba, Winnipeg, Manitoba, Canada

Studying emerging/re-emerging biosafety level 3 & 4 (BSL3&4) pathogens; Developing and testing novel vaccines for different applications ; Developing and evaluating therapeutics especially mAb therapy against BSL3 and 4 viruses; Developing animal models as a tool for studying pathogenesis and identifying immune mechanisms after virus infection

Yansong Sun, Academy of Military Medical Sciences Institute of Microbiology and Epidemiology, Beijing, China
Preventive medicine, biosafety and biosecurity; Prevention and control of infectious diseases.

Hong Tang, Institut Pasteur of Shanghai Chinese Academy of Sciences, Shanghai, China

Infection and immunity, immunogenetics, structural immunology

Yanyi Wang, Wuhan Institute of Virology Chinese Academy of Sciences, Wuhan, China

The innate immune response acts as the first line of host defense against viral infection.

Editorial Board Members

Asadulghani, International Centre for Diarrhoeal Disease Research Bangladesh, Dhaka, Bangladesh

Bacteriophage biology, antimicrobial resistance, and transcriptional regulation gene expression.

Chad Richard Austin, University of Texas Health Science Center at Houston, Houston, Texas, United States

Risk assessment, incident injury prevention, basic and applied infectious disease research, high- and maximum containment laboratory design

Alexis K. L. Brubaker, Cornell University, Ithaca, New York, United States

Applied Biosafety of all kinds; Both animal and laboratory biosafety, including BSL-1-4, BSL3Ag, and ABSL1-4.

Elena Burtseva, FSBI "National Center of Epidemiology and Microbiology named after academician N.F. Gamaleya" Ministry of Public Health of Russian Federation, Russia, Russian Federation

Influenza virus, epidemiology, vaccines, antivirals

Bin Cao, China-Japan Friendship Hospital, Beijing, China

The research of acute respiratory infections and emerging respiratory infectious diseases.

Bin Chen, Centers for Disease Control and Prevention, Atlanta, Georgia, United States

Laboratory quality and safety improvement, best practices, training and evaluation

Hsing-Ming Chen, Taiwan Biological Safety Association, New Taipei City, China

Pharmacist, emerge disease, epidemics, vaccine & anti-serum, biosafety/ biosecurity, biodefence, toxicology, and immunology.

Teck Mean Chua, National University of Singapore, Singapore

Effective biocontainment facility design & engineering for safety and sustainability; Strategies in counter-bioterrorism & effective incident response; Animal research facilities for good science & safety; Emerging technology and future trends in biosafety & biocontainment.

Eric Neil Cook, Sandia National Laboratories, Albuquerque, New Mexico, United States

Biorisk management, risk assessment and infectious substance shipping

Peter Daszak, EcoHealth Alliance, New York, United States

Analyzing the process of disease emergence, research on the bat origins of emerging viruses, studies of wildlife disease ecology to understand emerging zoonoses.

Zhaojun Duan, National Institute for Viral Disease Control and Prevention, Beijing, China

The prevalence mechanism of viral diarrhea and emerging infectious diseases

Maureen Ellis, International Federation of Biosafety Association, Ottawa, Ontario, Canada

Biosafety, biosecurity

Yuwei Gao, Academy of Military Medical Sciences, Beijing, China

Virus and host determinants of virulence and host range of influenza viruses; Epidemiology and molecular evolution of influenza viruses in wild birds in China; Emergence of infectious diseases in wildlife in China

Jun Han, National Institute for Viral Disease Control and Prevention, Beijing, China

Research on management of biosafety risk, identification of medical virus, and pathogenesis of picornavirus and prion diseases.

Kai Huang, University of Texas Health Science Center at Houston, Houston, Texas, United States

Infectious diseases, RNA viruses, and virus evolution.

David Lam Keung Hung, Singapore General Hospital, Singapore

Disinfection and decontamination, emergency response, planning of containment facilities

Mark Huza, AAF Flanders, Washington, North Carolina, United States

All aspects of the design of risk mitigation systems for the control of CBRNE and other airborne contaminants of high consequence when used as primary and/or secondary containment devices in BSL-3 and BSL-4 facilities

Diah Iskandriati, IPB University, Bogor, Indonesia

Animal model, infectious disease/virology, immunology

Gary P. Kobinger, Laval University, Quebec, Quebec, Canada

In vivo evaluation of vaccine candidates and immunotherapeutics in a biosafety level 4 facility for protection against high biocontainment viruses (Ebola, Nipah, Rift Valley and CCHF)

Jay Krishnan, National Microbiology Laboratory, Saint-Hyacinthe, Quebec, Canada

Biosafety and biorisk

Prasad Narasimha Kuduvali, Health Security Partners, Washington, District of Columbia, United States

Development and implementation of biorisk standards, guidelines, and tools; National level development and implementation of BS&S regulatory frameworks; Innovation to advance biosafety and biosecurity in the context of quality management and public health; One health and other novel multi-sector collaborative approaches to advancing BS&S

Chook Mee Lan, Temasek Life Sciences Laboratory Ltd, Singapore

Operations of a life sciences biomedical research institution, safety and quality management, laboratory experience in pharmaceutical chemistry.

Yixue Li, Shanghai Center for Bioinformation Technology, Shanghai, China

Genomics, bioinformatics, database, evolutionary biology, and cancer Genomics.

Zhenjun Li, Chinese Center for Disease Control and Prevention, Beijing, China

Laboratory biosafety management, epidemiology and pathogenesis of Nocardia.

Mifang Liang, National Institute for Viral Disease Control and Prevention, Beijing, China

Hemorrhagic fever (VHF) viruses, including hantavirus, Dengue virus, Chikungunya virus, CCHF virus, SFTS virus and the Ebola virus.

Rongtuan Lin, McGill University, Montreal, Canada

Molecular mechanism in the regulation of innate immunity and the impact of viral infection on host transcription control, viral pathogenesis and oncogenesis.

Di Liu, Wuhan Institute of Virology Chinese Academy of Sciences, Wuhan, China

Virus Genomics and Evolution, Bioinformatics

Jiahai Lu, Sun Yat-Sen University, Guangzhou, China

Mathematical models, metagenomics sequencing and routine etiological/serological testing to study emerging and zoonotic infectious diseases; One health practice against EIDs crisis in China

Jinxing Lu, National Institute for Communicable Disease Control and Prevention, Beijing, China

Microbiology, microecology

Xuejun Ma, National Institute for Viral Disease Control and Prevention, Beijing, China

Development and application of molecular diagnostic methods for detection of virus with various approaches including DNA resequencing microarray, isothermal DNA amplification, novel multiple PCR, high throughput DNA\RNA analysis, virus discovery by next-generation and third-generation sequencing and Bioinformatics.

Lim Yang Mooi, Tunku Abdul Rahman University, Petaling Jaya, Malaysia

Biotechnology, biochemistry, biorisk management

Carlos Medicis Morel, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil

Neglected diseases, Emerging diseases, Biotechnology, Global health, Health innovation

Xiaozhong Peng, Institute of Basic Medical Sciences, CAMS and PUMC, Beijing, China

Neurodevelopment in primates, research on virus mechanism by reverse genetics.

Chengfeng Qin, Academy of Military Medical Sciences Institute of Microbiology and Epidemiology, Beijing, China

Mosquito-borne Flavivirus, virus engineering, emerging infectious diseases.

Di Qu, Fudan University, Shanghai, China

Regulatory mechanism of PhoQ/PhoP in Shigella; Regulation of persister formation in *S. epidermidis* biofilms; Animal models for TB vaccine evaluation; Evaluation of BSL-3 contamination and prevention
Laboratory acquired infection

David J. Safronetz, National Microbiology Laboratory, Saint-Hyacinthe, Quebec, Canada

Currently conducting independent, original research aimed at elucidating the pathogenesis of high consequence viruses using in vitro and in vivo models and applying these findings to the development of appropriate medical countermeasures.

Heather Sheeley, Public Health England Workplace Health and Safety Lead, Salisbury, United Kingdom

Biosafety, biocontainment, laboratory biosecurity, biorisk, sustainable laboratories for developing countries, laboratory acquired infection, risk assessment, competency in biosafety.

Yi Shi, Institute of Microbiology Chinese Academy of Sciences, Beijing, China

Molecular mechanism of pathogen infection and regulation by the host, and the interaction between receptors and ligands during immune response.

Enitra Jones Sprouse, Louisiana State University, Baton Rouge, Louisiana, United States

Biological safety, and health disparities.

Philippe Stroot, Xibios Biosafety Consulting, Tournai, Belgium

Applied Biosafety and connected fields and topics

T.S. Saraswathy Subramaniam, National Institutes of Health, Shah Alam, Malaysia

Research on HIV, polio, and measles.

Wenjie Tan, MOH Key Laboratory of Medical Virology, National Institute for Viral Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China

Diagnosis and surveillance of HCoVs and other emerging viral diseases in China, R&D of vaccines against viral diseases (Influenza, HBV, Poxvirus and HCoVs).

Hao Anh Vu, Centers for Disease Control and Prevention, Atlanta, Georgia, United States

Improving the sciences in the field of biosafety and biocontainment practices for all biosafety levels; Evaluating decontamination and inactivation methods in applied applications; Integration of novel technological system into laboratory and health care environments to augment quality and safety outcomes; Improving the science of applied risk assessments

Takaji Wakita, National Institute of Infectious Diseases, Shinjuku-Ku, Japan

Research on the virology and hepatology.

Dayan Wang, National Institute for Viral Disease Control and Prevention, Beijing, China

The antigenicity, genetic characteristics and drug resistance of human seasonal influenza virus and human infection with zoonotic influenza viruses

Haoyi Wang, Institute of Zoology Chinese Academy of Sciences, Chaoyang, Beijing, China

Development and application of genome engineering technologies

Hualei Wang, Academy of Military Medical Sciences, Beijing, China

Molecular pathogenesis of neurotropic virus; Development of anti-viral vaccines and agents; Molecular epidemiology and virus evolution

Yumei Wang, National Institute for Viral Disease Control and Prevention, Beijing, China

STM Publishing

Zhaoxi Wang, Harvard Medical School, Boston, Massachusetts, United States

Multidisciplinary research, especially in molecular epidemiology, genomics, functional genomics (omics), and environmental health; Research on applying new genomic/omics technologies to population-based studies of complex diseases.

Qiang Wei, Chinese Center for Disease Control and Prevention, Beijing, China

Microorganism laboratory acquired-infection control, protection and application on biological resources

Gary Wong, Laval University, Quebec, Canada

Surveillance and isolation of highly pathogenic viruses from remote regions of China and Canada, the establishment of rapid, sensitive and specific methods for on-site diagnostics, the development of animal models, vaccines and therapeutics, as well as research into mechanisms of pathogenicity for viruses requiring BSL-3 or -4 containment.

Zunyou Wu, National Center for AIDS STD Control and Prevention, Beijing, China

HIV/AIDS Epidemiology, HIV/AIDS prevention in key populations, and drug abuse.

Ningshao Xia, Xiamen University, Xiamen, China

Molecular virology, infectious diseases, IVD, and vaccine.

Yonghong Xiao, Zhejiang University, Hangzhou, China

Infectious diseases, basic and clinical research on antimicrobial agents, bacterial resistance and antimicrobial agent rational use.

Wenbo Xu, National Institute for Viral Disease Control and Prevention, Beijing, China

The application research and basic research related to the prevention and control of human respiratory viruses and human enterovirus diseases

Jinghua Yan, Institute of Microbiology Chinese Academy of Sciences, Beijing, China
Monoclonal antibody for infection disease and tumor therapy; Subunit vaccine development of viruses.

Hongliang Yang, Houston Methodist Research Institute, Houston, Texas, United States
Biosafety; Recombinant proteins using bioreactor for Emerging Infectious Research Resources Repository

Peijun Zhai, China National Accreditation Service for Conformity Assessment, Beijing, China
Quality & safety management of laboratories includes management system, quality control, safety & ethics, validation of methods, verification of performance, measurement traceability, uncertainty etc.

Weiwu Zhang, Tianjin University, Tianjin, China
Synthetic biology and biotechnology

Xiaofei Zhang, Beijing Tsinghua Chang Gung Hospital, Beijing, China
Public health, epidemiology, pharmaco-epidemiology, biostatistics, data management and quality control, cardiovascular epidemiology of non-communicable diseases.

Yong Zhang, National Institute for Viral Disease Control and Prevention, Beijing, China
The application research and basic research related to the prevention and control of human enterovirus diseases (hand-foot-mouth disease, poliomyelitis, aseptic meningitis, etc.).

Chihong Zhao, Chinese Center for Disease Control and Prevention, Beijing, China
Risk assessment, laboratory safety, and laboratory quality.

Getu Zhaori, China Medical Tribune, Beijing, China
Pediatrics, pediatric infectious diseases, pediatric viral infectious diseases, clinical virology, certain molecular biology techniques, such as small interfering ribonucleic acid (siRNA) technology

Dongsheng Zhou, Academy of Military Medical Sciences Institute of Microbiology and Epidemiology, Beijing, China
Bacterial genetics, pathogenesis and gene regulation, and biosecurity.

Vladimir Zlobin, Irkutsk State University, Irkutsk, Russian Federation
Natural foci infections: arboviruses & arbovirus infections: poliomyelitis; Enteroviruses; Viral genetics: viral evolution, viral vaccines, bacterial genetics, crispr/- technologies.

Editorial Office

China, Email - biosafetyandhealth@ivdc.chinacdc.cn

GUIDE FOR AUTHORS

INTRODUCTION

Types of article

Article types include but are not limited to original research, reviews, perspectives, correspondence, case reports, news and views, highlights, commentaries, policy forum, etc.

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An original research is expected to present a major advance. It should include an abstract, an introduction, up to 10 figures or tables, and no more than 40 references. Materials and Methods should be included in supplementary materials, which should also include information needed to support the paper's conclusions.

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A review article aims to provide readers with a balanced overview of an important and topical subject in the field, and should be systematic and critical assessments of literature and data sources. It should cover aspects of a topic in which scientific consensus exists as well as aspects that remain controversial and are the subject of ongoing scientific research. Elements: Word limit: 3,500 words (excluding the abstract and references). Abstract: Up to 250 words, unstructured. Tables/Figures: Data in the text should not be repeated extensively in tables or figures. References: 80 or less.

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Authorship

All authors should have made substantial contributions to all of the following: (1) the conception and design of the study, or acquisition of data, or analysis and interpretation of data, (2) drafting the article or revising it critically for important intellectual content, (3) final approval of the version to be submitted.

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Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

Introduction

State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

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Provide sufficient details to allow the work to be reproduced by an independent researcher. Methods that are already published should be summarized, and indicated by a reference. If quoting directly from a previously published method, use quotation marks and also cite the source. Any modifications to existing methods should also be described.

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A Theory section should extend, not repeat, the background to the article already dealt with in the Introduction and lay the foundation for further work. In contrast, a Calculation section represents a practical development from a theoretical basis.

Results

Results should be clear and concise.

Discussion

This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

Conclusions

The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

Appendices

If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

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Reference to a book:

[3] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[5] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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