

EDITORIAL

Open Access



Introducing One Health Advances: a new journal connecting the dots for global health

Jianzhong Shen^{1*} and Stefan Schwarz^{2*}

We are excited to announce the publication of the inaugural issue of our new golden open access journal, *One Health Advances*. This journal is dedicated to high-quality original research articles and reviews in the field of One Health, a holistic approach to public health that recognizes the interdependence of animal, environmental, and human health. In the light of the recent outbreak of COVID-19, the importance of a One Health approach to research has never been more evident.

Our primary goal with *One Health Advances* is to provide a platform for the rapid dissemination of cutting-edge scientific knowledge on topics, such as antimicrobial resistance (AMR), animal-derived food safety, and animal diseases with a preference for zoonoses. We are committed to multidisciplinary and multifaceted perspectives, and are relying on the expertise from leading experts across the globe in fields, such as microbiology, virology, epidemiology, genomics, chemistry, environmental science, health policy, clinical laboratory, and diagnostics science.

The articles featured in the inaugural issue of *One Health Advances* represent a diverse and important set of topics. For example, Qijing Zhang et al. take a One

Health approach to review the prevalence and spread of zoonotic and antimicrobial-resistant *Campylobacter*, offering recommendations for control and mitigation [1]. Weiwei Yang et al. discuss the rise of AMR in China based on data from China Antimicrobial Surveillance Network (CHINET), highlighting the crucial role of surveillance systems in curbing this trend [2]. Weiwei Li et al. analyze the resistance profiles of *Salmonella* strains in Chinese diarrhea patients to provide guidance for better clinical antimicrobial treatment [3]. The studies by Yang Bai et al. and Gang Liu et al. investigate risk factors and transmission of *Porphyromonas gulae* and *Leishmania*, respectively, which cause diseases in dogs, and provide insight into appropriate disease management strategies [4, 5]. This issue also includes significant space devoted to antimicrobial resistance profiles in pets, closely related to humans, with studies by Shizhen Ma et al. and others, providing crucial data on antimicrobial resistance dynamics in pets and recommendations for pet medical care and public health [6].

In addition to these articles, this issue offers valuable insight into the ongoing emergence of influenza A viruses, with Chris Ka Pun MOK et al. suggesting the need for enhanced surveillance of mink influenza viruses for early warning of potential pandemics [7]. Shaoyuan Tan et al. provide a new strategy for the development of a porcine reproductive and respiratory syndrome virus (PRRSV) vaccine [8], while studies by Ghulam Mujtaba Mari et al. and Weifang Gu et al. offer potential means for rapid, accurate, and reliable detection of antimicrobial residues in animal-derived foods and vegetables [9, 10].

We believe that these studies offer a glimpse into the breadth and scope of research that *One Health Advances* will publish. If any of these topics pique your interest,

*Correspondence:

Jianzhong Shen
sjz@cau.edu.cn
Stefan Schwarz
stefan.schwarz@fu-berlin.de

¹ National Key Laboratory of Veterinary Public Health Security, College of Veterinary Medicine, China Agricultural University, Beijing 100193, China

² Department of Veterinary Medicine, Institute of Microbiology and Epizootics, Centre of Infection Medicine, Freie Universität Berlin, 14163 Berlin, Germany



© The Author(s) 2023. **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

we encourage you to read the corresponding articles. We would like to extend our sincere thanks to all the authors who have contributed to this inaugural issue. We hope that the launch of *One Health Advances* marks the beginning of a beautiful journey connecting the various aspects of global health.

Authors' contributions

The author(s) read and approved the final manuscript.

Declarations

Competing interests

The authors declare that they have no competing interests.

Published online: 29 March 2023

References

1. Zhang Q, Beyi AF, Yin Y. Zoonotic and antibiotic-resistant *Campylobacter*: a view through the One Health lens. *One Health Adv.* <https://doi.org/10.1186/s44280-023-00003-1>.
2. Yang W, Ding L, Han R, Yin D, Wu S, Yang Y, et al. Current status and trends of antimicrobial resistance among clinical isolates in China: a retrospective study of CHINET from 2018 to 2022. *One Health Adv.* <https://doi.org/10.1186/s44280-023-00009-9>.
3. Li W, Han H, Liu J, Ke B, Zhan L, Yang X, et al. Antimicrobial resistance profiles of *Salmonella* isolates from human diarrhea cases in China: an eight-year surveillance study. *One Health Adv.* <https://doi.org/10.1186/s44280-023-00001-3>.
4. Bai Y, Song P, Shen Z, Shi H, Jiang Z, Lin J, et al. *Porphyromonas gulae* infection in canines, pet owners and veterinarians in China: an epidemiological study and risk factor analysis. *One Health Adv.* <https://doi.org/10.1186/s44280-023-00007-x>.
5. Liu G, Wu Y, Wang L, Liu Y, Huang W, Li Y, et al. Re-emergence of canine *Leishmania infantum* infection in mountain areas of Beijing. *One Health Adv.* <https://doi.org/10.1186/s44280-023-00010-2>.
6. Ma S, Chen S, Lyu Y, Huang W, Liu Y, Dang X, et al. China antimicrobial resistance surveillance network for pets (CARPet), 2018 to 2021. *One Health Adv.* <https://doi.org/10.1186/s44280-023-00008-w>.
7. MOK CKP, Qin K. Mink infection with influenza A viruses: an ignored intermediate host? *One Health Adv.* <https://doi.org/10.1186/s44280-023-00004-0>.
8. Tan S, Wu W, Ge X, Zhang Y, Han J, Guo X, et al. A novel strategy to attenuate porcine reproductive and respiratory syndrome virus by inhibiting viral replication in the target pulmonary alveolar macrophages via hematopoietic-specific miR-142. *One Health Adv.* <https://doi.org/10.1186/s44280-023-00002-2>.
9. Mari GM, Wu W, Talpur A, Shah JM, Ali S, Khand F, et al. Hapten design to prepare monoclonal antibodies and establishment of immunoassay for direct screening of oxamichydrazide in chicken, the metabolite of nifuraldezone. *One Health Adv.* <https://doi.org/10.1186/s44280-023-00006-y>.
10. Gu W, Suryoprabowob S, Guo L, Wu A, Liu L, Xu C. Fluorescence strip sensor for sensitive determination of prometryn in foods. *One Health Adv.* <https://doi.org/10.1186/s44280-023-00005-z>.

Publisher's Note

Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Ready to submit your research? Choose BMC and benefit from:

- fast, convenient online submission
- thorough peer review by experienced researchers in your field
- rapid publication on acceptance
- support for research data, including large and complex data types
- gold Open Access which fosters wider collaboration and increased citations
- maximum visibility for your research: over 100M website views per year

At BMC, research is always in progress.

Learn more biomedcentral.com/submissions

