Biomedical and Environmental Sciences

Volume 38, Number 11, November 2025

Founded on March 1988

Publication Date November 20, 2025

Indexed by SCI, PubMed, ELSEVIER, CA, WANFANG, CNKI, VIP, CSCD

Responsible Institution: National Disease Control and Prevention Administration

Sponsor: Chinese Center for Disease Control and Prevention.

Editor-in-Chief: Xiaoming Shi

Deputy Editors-in-Chief: Gangqiang Ding Xiaoping Dong Na He Ni Li Qiyong Liu Xiangfeng Lu An Pan Huaqing Wang

Yankai Xia Dongqun Xu Siyan Zhan Qun Zhang Maigeng Zhou

Editing: Editorial Board of Biomedical and Environmental Sciences

Address: Editorial Office of Biomedical and Environmental Sciences, Chinese Center for Disease Control and Prevention

155 Changbai Road, Changping District, Beijing 102206, China

Tel: 86-10-58900404, 58900455, 58900233

Managing Editor: Qun Zhang

Publishing: Editorial Office of BES, Chinese Center for Disease Control and Prevention

Printing: Beijing Kexin Printing Co., Ltd

Domestic and Overseas Distribution: Chinese Center for Disease Control and Prevention

Mail-Order: Editorial Office of Biomedical and Environmental Sciences

E-mail: besjournal@sina.com

Annual Subscription for Vol. 38, 2025: RMB: ¥ 1200; USD: \$560.00.

CSSN: ISSN 0895-3988 / CN 11-2816/Q

Copyright: © 2025 Published by China CDC. All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without the prior permission of BES. Authors are required to grant BES an exclusive license to publish.

Special Statement: All articles published in this journal represent the viewpoints of the authors except where indicated otherwise.

Instructions to Authors: Full instructions are available online at www.besjournal.com.

Copyright © 2025 by China CDC





Biomed Environ Sci 2025, 38(11): 1327-1462

ISSN 0895-3988 CN 11-2816/Q

生物医学与环境科学 Vol.38, No.11, November 2025

Biomedical and Environmental Sciences



National Disease Control and **Prevention Administration**

Chinese Center for Disease Control and Prevention

