

Table of Contents

Editorial

- 743 From Air Quality Monitoring to Health-Oriented Early Warning
Mengmeng Jia and Luzhao Feng

Original Articles

- 745 Epidemic Spread and Control Strategies: A Spatial-individual Agent-based Modeling and Optimization Approach
Xiangyu Zhang, Zhidong Cao, Tianyi Luo, Jiaojiao Wang, Hongbin Song, and Ligui Wang
- 758 Predictions of City-based Respiratory Hospital Visits: Developing and Validating a Machine Learning Model with a Novel Composite Air Pollution Index
Wenxuan Zhao, Yu Wang, Changzhen Xiang, Chenfeng Li, Chen Chen, Jiaonan Wang, Jianlong Fang, Feng Lu, Kai Chen, Shilu Tong, Jie Ban, and Xiaoming Shi
- 769 Development and Validation of a Predictive Model for ICU-acquired Weakness in Sepsis Patients: An Interpretable Machine-learning Approach
Yuan Du, Yuhong Guo, Haoran Ye, Ziheng Gao, Qingquan Liu, and Shuo Wang
- 785 Concurrent MASLD and Long-term Outcomes in HBV-infected Individuals: A Population-based Cohort Study
Xiaomo Wang, Shutong Wu, Chenlu Yang, Di Zhou, Shuohua Chen, Baoyu Feng, Xinyu Zhao, Shouling Wu, and Li Wang
- 799 Lasso Regression-based Model for Cross-Sectional Identification of Significant Hepatic Fibrosis in NAFLD
LASSO-based identification of hepatic fibrosis in NAFLD
Wen Deng, Yaqin Zhang, Weihua Cao, Shuojie Wang, Shiyu Wang, Ziyu Zhang, Xinxin Li, Linmei Yao, Zixuan Gao, Xin Wei, Tianyu Ma, Dianya Qiu, Hongxiao Hao, Yao Xie, and Minghui Li
- 809 Association between Occupational High-Temperature Exposure and the Biological Aging of Workers
Yan Guo, Rui Zhao, Weichao Wu, Jinru Chen, Xiangkai Zhao, Bin Yang, Zhiguang Gu, Dongsheng Hu, Ming Zhang, and Wei Wang

- 817 Associations between Heavy Metals and Metalloids and Hepatic Fibrosis Risk in Chinese Adults: A Potential Modifying Effect of Thyroid Hormones
Lu Yu, Zheng Li, Peijie Sun, Shuyang Yan, Wanying Shi, Wenqi Hao, Wanling Li, Mingkun Yu, Dejin Yang, Yingli Qu, Saisai Ji, Wenli Zhang, Feng Zhao, Yawei Li, Haocan Song, Jiayi Cai, Ying Zhu, Song Tang, Feng Tan, Yuebin Lyu, and Xiaoming Shi

Letters

- 833 Plasma Metal Exposures and Metabolic Dysfunction-associated Steatotic Liver Disease in Rural Chinese Adults: Exploratory Evidence for Lipid-related Pathways
Yuan Yang, Moqi Zhang, Chaofan Xie, Hao Wang, Shuzhen Liu, Chihua Li, You Li, Jiansheng Cai, Xu Gao, and Zhiyong Zhang
- 839 Incidence of Active Tuberculosis over a Two-year Follow-up Period among Individuals with different Chest Radiographic Findings who were Excluded from Active Tuberculosis at Initial Baseline Screening
Ping Zhu, Yu Gao, Yan Qian, Wei Wang, Yuhang Wang, Jianguo Liang, Lei Gao, and Ying Du
- 847 TAP1 Expression Identifies a “Hot-but-exhausted” Glioma Subtype with Distinct Immunobiology and Targetable Dependencies
Jianlei An, Hongru Liu, Jun Zhang, and Lei Liu
- 855 Insights into Genetic Diversity and Divergence Time of Human-Derived *Echinococcus granulosus* Isolates in Qinghai, China
Hongrun Ge, Ru Meng, Zhi Li, Hong Duo, Yuanqing Lin, Suoang Qiupei, Xihuo You, Qinyi He, Hailong Zhao, and Yong Fu
- 859 Genetic Characterization of Multidrug-resistant *Aeromonas* Isolates from a General Hospital in China and Identification of a New CphA Variant
Yanyan Zhou, Keyi Yu, Ming Liu, Zhenzhou Huang, Yanqing Che, Mengyu Shi, Zhenpeng Li, Xiaoli Du, Duochun Wang, Liyan Ma, and Li Yu

Managing Editor: Qun Zhang

Editor in Charge: Yuanyuan Xu

Editors: Yunshang Cui, Xueying Shen, Ying Zhang, Xiaoning Wang

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

E-mail: besjournal@sina.com bes@chinacdc.cn

Full Text and Manuscript Submission: www.besjournal.com