



# Retraction Note: The role of bismuth nanoparticles in the inhibition of bacterial infection

Somaye Salari Sedigh<sup>1</sup> · Arsalan Gholipour<sup>2</sup> · Mahdiyeh Zandi<sup>3</sup> · Balsam Qubais Saeed<sup>4</sup> · Bashar Zuhair Talib Al-Naqeeb<sup>5</sup> · Noor M. Abdullah AL-Tameemi<sup>6</sup> · Maadh Fawzi Nassar<sup>7,8</sup> · Parya Amini<sup>9</sup> · Saman Yasamineh<sup>10</sup> · Omid Gholizadeh<sup>11</sup>

Published online: 11 August 2023  
© The Author(s), under exclusive licence to Springer Nature B.V. 2023

**World Journal of Microbiology and Biotechnology**  
(2023) 39:190  
<https://doi.org/10.1007/s11274-023-03629-w>

The Editor in Chief has retracted this article. After publication concerns were raised about the authorship. An investigation by the Publisher found that the authorship could not be verified. The Editor in Chief has therefore lost confidence in the integrity of this article. Balsam Qubais Saeed, Saman Yasamineh, Omid Gholizadeh and Mahdiyeh Zandi disagree to this retraction. Somaye Salari Sedigh, Arsalan Gholipour, Bashar Zuhair Talib Al-Naqeeb, Noor M. Abdullah AL-Tameemi, Maadh Fawzi Nassar and Parya Amini have not responded to correspondence from the Editor about this retraction.

**Publisher's Note** Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

The online version of the original article can be found at <https://doi.org/10.1007/s11274-023-03629-w>

✉ Saman Yasamineh  
Yassaman124@gmail.com

✉ Omid Gholizadeh  
ogholizade1374@gmail.com

<sup>1</sup> Department of Periodontology Dentistry, School of Dentistry, Rafsanjan University of Medical Sciences, Rafsanjan, Iran

<sup>2</sup> Nanotechnology Research Institute, School of Chemical Engineering, Babol Noshirvani University of Technology, Babol, Iran

<sup>3</sup> Rajaie Cardiovascular Medical and Research Center, Iran University of Medical Sciences, Tehran, Iran

<sup>4</sup> Clinical Sciences Department, College of Medicine, University of Sharjah, Sharjah, UAE

<sup>5</sup> Anesthesia technology department, Al-Turath University College, Al Mansour, Baghdad, Iraq

<sup>6</sup> Nursing Department, Al-Mustaqbal University College, 51001 Hillah, Babylon, Iraq

<sup>7</sup> Integrated Chemical Biophysics Research, Faculty of Science, University Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia

<sup>8</sup> Department of Chemistry, Faculty of Science, University Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia

<sup>9</sup> Department of Microbiology, School of Medicine, Yasuj University of Medical Sciences, Saman Yasamineh, Yasuj, Iran

<sup>10</sup> Research Center for Clinical Virology, Tehran University of Medical Sciences, Omid Gholizadeh, Tehran, Iran

<sup>11</sup> Department of Bacteriology and Virology, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran