



## OPEN ACCESS

EDITED AND REVIEWED BY  
Graciela L. Lorca,  
University of Florida, United States

\*CORRESPONDENCE  
Niculina Musat  
✉ niculina.musat@ufz.de

RECEIVED 19 April 2023  
ACCEPTED 17 May 2023  
PUBLISHED 30 May 2023

## CITATION

Haenelt S, Wang G, Kasmanas JC, Musat F, Richnow HH, da Rocha UN, Müller JA and Musat N (2023) Corrigendum: The fate of sulfonamide resistance genes and anthropogenic pollution marker *intI1* after discharge of wastewater into a pristine river stream. *Front. Microbiol.* 14:1208555. doi: 10.3389/fmicb.2023.1208555

## COPYRIGHT

© 2023 Haenelt, Wang, Kasmanas, Musat, Richnow, da Rocha, Müller and Musat. This is an open-access article distributed under the terms of the [Creative Commons Attribution License \(CC BY\)](https://creativecommons.org/licenses/by/4.0/). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

# Corrigendum: The fate of sulfonamide resistance genes and anthropogenic pollution marker *intI1* after discharge of wastewater into a pristine river stream

Sarah Haenelt<sup>1</sup>, Gangan Wang<sup>1</sup>, Jonas Coelho Kasmanas<sup>2</sup>, Florin Musat<sup>1,3</sup>, Hans Hermann Richnow<sup>1,4</sup>, Ulisses Nunes da Rocha<sup>2</sup>, Jochen A. Müller<sup>2,5</sup> and Niculina Musat<sup>1\*</sup>

<sup>1</sup>Department of Isotope Biogeochemistry, Helmholtz Centre for Environmental Research, Leipzig, Germany, <sup>2</sup>Department of Environmental Microbiology, Helmholtz Centre for Environmental Research, Leipzig, Germany, <sup>3</sup>Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, Babeş-Bolyai University, Cluj-Napoca, Romania, <sup>4</sup>Isodetect Umweltmonitoring GmbH, Leipzig, Germany, <sup>5</sup>Institute for Biological Interfaces (IBG 5), Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany

## KEYWORDS

class 1 integron, sulfamethoxazole, sulfonamide resistance, *sul1*, *sul2*, *intI1*, river ecosystem, one health

## A corrigendum on

The fate of sulfonamide resistance genes and anthropogenic pollution marker *intI1* after discharge of wastewater into a pristine river stream

by Haenelt, S., Wang, G., Kasmanas, J. C., Musat, F., Richnow, H. H., da Rocha, U. N., et al. (2023). *Front. Microbiol.* 14:1058350. doi: 10.3389/fmicb.2023.1058350

In the original article, there was an error in [Figure 4](#) as published. The absolute abundances of *sul1*, *sul2*, *intI1* and 16S rRNA gene were calculated incorrectly.

The corrected [Figure 4](#) and its caption “[Figure 4](#). Absolute abundance of *sul1*, *sul2*, *intI1* and 16S rRNA gene determined by quantitative real time PCR. Number of replicates (*n*) = 15.” appears below.

In the original article, there was an error in the results section. The absolute abundances of *sul1*, *sul2*, *intI1* and 16S rRNA gene were calculated incorrectly.

A correction has been made to **Results**, *ARG abundance*, Paragraph 1. This sentence previously stated:

“The absolute copy numbers of the 16S rRNA gene per 100 mL did not exceed  $2 \times 10^5$  in river water and  $5 \times 10^5$  in the WWTP effluent.”

The corrected sentence appears below:

“The absolute copy numbers of the 16S rRNA gene per 100 mL did not exceed  $9 \times 10^6$  in river water and  $2.5 \times 10^6$  in the WWTP effluent.”

The author apologizes for these errors and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

## Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.

