

Corrigendum: The Alkali-Tolerant Bacterium of *Bacillus* Thuringiensis EM-A1 Can Effectively Perform Heterotrophic Nitrification and Aerobic Denitrification

Tingjiang Wang, Mengping Chen, Xiwen Liang, Fali Chen, Tengxia He* and Zhu Li

Key Laboratory of Plant Resource Conservation and Germplasm Innovation in Mountainous Region (Ministry of Education), Collaborative Innovation Center for Mountain Ecology Agro-Bioengineering (CICMEAB), College of Life Sciences/Institute of Agro-Bioengineering, Guizhou University, Guiyang, China

Keywords: hydroxylamine removal, heterotrophic nitrification, aerobic denitrification, hydroxyamine oxidoreductase, nitrogen balance

OPEN ACCESS

A Corrigendum on

Edited and reviewed by:

Likun Wang, Chinese Academy of Sciences (CAS), China

> *Correspondence: Tengxia He txhe@gzu.edu.cn

Specialty section:

This article was submitted to Water and Wastewater Management, a section of the journal Frontiers in Environmental Science

> Received: 26 February 2022 Accepted: 07 March 2022 Published: 01 April 2022

Citation:

Wang T, Chen M, Liang X, Chen F, He T and Li Z (2022) Corrigendum: The Alkali-Tolerant Bacterium of Bacillus Thuringiensis EM-A1 Can Effectively Perform Heterotrophic Nitrification and Aerobic Denitrification. Front. Environ. Sci. 10:884292. doi: 10.3389/fenvs.2022.884292

The Alkali-Tolerant Bacterium of *Bacillus* thuringiensis EM-A1 Can Effectively Perform Heterotrophic Nitrification and Aerobic Denitrification

by Wang, T., Chen, M., Liang, X., Chen, F., He, T. and Li, Z. (2022). Front. Environ. Sci. 9:818316. doi: 10.3389/fenvs.2021.818316

In the original article, we neglected to include the funder Undergraduate "SRT Plan" project, (Guida SRT (2021) No. 271), Undergraduate "SRT Plan" project, (Guida SRT (2021) No. 271) to Tingjiang, Wang.

There was also a mistake in **Table 1** as published. Errors in the formatting and data. The corrected **Table** appears below.

In the published article, the rotation speed in part of "Abstract" and "Conclusion" should have been updated to 150 rpm.

The authors apologize 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.

Copyright © 2022 Wang, Chen, Liang, Chen, He and Li. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). 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.

TABLE 1 | Nitrogen balances of ammonium, nitrite and nitrate removal by strain EM-A1.

Substances	Initial N (mg/L)	Final N (mg/L)					Intracellular-N (mg/L)	N lose (%)
		NH4 ⁺ -N	NH ₂ OH-N	NO ₂ ⁻ N	NO₃ [−] -N	Organic-N		
NH4 ⁺ -N	54.88 ± 0.47	0.72 ± 0.06	5.47 ± 0.59	0	1.29 ± 0.61	23.54 ± 0.15	13.59 ± 0.6	29.34 ± 0.18
NO ₂ ⁻ N	57.95 ± 0.58	4.38 ± 0.4	0	5.45 ± 0.23	4.67 ± 0.28	19.72 ± 1.02	16.24 ± 0.18	23.72 ± 0.88
NO3 ⁻ -N	58.18 ± 0.57	4.35 ± 0.96	0	5.78 ± 1.11	11.24 ± 0.38	10.10 ± 0.81	11.28 ± 0.61	26.71 ± 0.36

Values represent mean \pm S.D., of triplicates (n = 3). Final organic-N = final soluble TN – (final NH₄⁺-N) – (final NO₃⁻-N) – (final NO₂⁻-N) – (final NH₂OH). Intracellular-N = (final TN – final soluble TN). % N removal = [(initial TN) – (final NH₄⁺-N) – (final NO₃⁻-N) – (final NO₂⁻-N) – (final organic-N) – (final organic-N) – (final NH₂OH)/initial TN × 100%.