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EDITED AND REVIEWED BY  
Jacob Arango,  
International Center for Tropical  
Agriculture (CIAT), Colombia

\*CORRESPONDENCE  
Mark D. McDonald  
✉ mcdonaldm@anl.gov

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# Corrigendum: Nitrogen fertilizer driven nitrous and nitric oxide production is decoupled from microbial genetic potential in low carbon, semi-arid soil

Mark D. McDonald<sup>1,2,3\*</sup>, Katie L. Lewis<sup>2</sup>, Paul B. DeLaune<sup>4</sup>,  
Brian A. Hux<sup>1</sup>, Thomas W. Boutton<sup>5</sup> and Terry J. Gentry<sup>1</sup>

<sup>1</sup>Department of Soil and Crop Sciences, Texas A&M University, College Station, TX, United States, <sup>2</sup>Texas A&M AgriLife Research, Lubbock, TX, United States, <sup>3</sup>Environmental Sciences Division, Argonne National Laboratory, Lemont, IL, United States, <sup>4</sup>Texas A&M AgriLife Research, Vernon, TX, United States, <sup>5</sup>Department of Ecology and Conservation Biology, Texas A&M University, College Station, TX, United States

## KEYWORDS

nitrous oxide, pore-space gases, microbial abundance, semi-arid soils, no-tillage, cover crop

## A Corrigendum on

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In the published article, 'Argonne National Laboratory' was erroneously listed as a present address for author Mark D. McDonald. It should have been captured in the **Affiliations** section.

In the published article, there was an error in **Table 1**. The primer sequences for the Target group 16S rRNA were incorrectly written as "Eub338: ATCATGGTSCTGCCGCG" and "Eub518: GCCTCGATCAGRTTGTT". In addition, references for all target groups were incorrect as published. The corrected **Table 1** and its caption appear below:

TABLE 1 Primer sequences and thermal profiles for total bacterial and bacterial N-cycle functional gene abundances.

Target group	Primer Name	Sequence (5'→3')	Thermal profile	Average Amplification efficiency (R <sup>2</sup> > 0.95) (%)	References
16S rRNA	Eub338	ACTCCTACGGGAGGCAGCAG	95°C for 15 min; 95°C for 1 min, 53°C for 30 s, 72°C for 1 min × 40 cycles	97	(33)
	Eub518	ATTACCGCGGCTGCTGG			
Bacterial <i>amoA</i>	AOB <i>amoA</i> -1F	GGGGWTTCTACTGGTGGT	95°C for 5 min; 94°C for 45 s, 60°C for 45 s, 72°C for 1.5 min × 40 cycles	100	(34)
	AOB <i>amoA</i> -2R	CCCCTCKGSAAGCCTTCTTC			
<i>nirS</i>	<i>nirS</i> 4F	G TSAACG TSAAGGARACSGG	94°C for 2 min; 94°C for 30 s, 58°C for 1 min, 72°C for 1 min × 40 cycles, 72°C for 10 min	104	(35)
	R3cd	GASTTCGGRTGSGTCTTGA			
<i>nirK</i>	<i>nirK</i> 876	ATYGGCGVCA YGGCGA	94°C for 2 min; 94°C for 30 s, 58°C for 1 min, 72°C for 1 min × 40 cycles	95	(36,37)
	<i>nirK</i> 1055	G CYTCGATVAGRTRTGGTT			
<i>nosZ</i> clade I	<i>nosZ</i> 2F	CGCRACGGCAASAAGG TSMSSGT	50°C for 2 min, 95°C for 3 min; 95°C for 15 s, 67-62°C for 30 s, 72°C for 30 s; 95°C for 15 s, 62°C for 1 min, 72°C for 1 min × 34 cycles	97	(38)
	<i>nosZ</i> 2R	CAKRTGCAKSGCRTGGCAGAA			
<i>nosZ</i> clade II	clade II F	CTIGGICCIYTKCAYAC	95°C for 2 min; 95°C for 30 s, 56°C for 30 s, 72°C for 40 s × 40 cycles	90	(39)
	clade II R	GCIGARCARA AITCBGTRC			

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