

## Accepted Manuscript

Microbial-chemical indicator for anaerobic digester performance assessment in full-scale wastewater treatment plants for biogas production

Traversi Deborah, Romanazzi Valeria, Raffaella Degan, Lorenzi Eugenio, Carraro Elisabetta, Giorgio Gilli

PII: S0960-8524(15)00372-7  
DOI: <http://dx.doi.org/10.1016/j.biortech.2015.03.042>  
Reference: BITE 14732

To appear in: *Bioresource Technology*

Received Date: 22 December 2014  
Revised Date: 4 March 2015  
Accepted Date: 7 March 2015

Please cite this article as: Deborah, T., Valeria, R., Degan, R., Eugenio, L., Elisabetta, C., Gilli, G., Microbial-chemical indicator for anaerobic digester performance assessment in full-scale wastewater treatment plants for biogas production, *Bioresource Technology* (2015), doi: <http://dx.doi.org/10.1016/j.biortech.2015.03.042>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



1 **TITLE:**2 **Microbial-chemical indicator for anaerobic digester performance assessment in full-scale**3 **wastewater treatment plants for biogas production**

4

5 **SHORT RUNNING TITLE: Methanogens and biogas yield**

6

7 **AUTHORS:**8 Traversi Deborah<sup>1</sup>, Romanazzi Valeria<sup>1</sup>, Raffaella Degan<sup>1</sup>, Lorenzi Eugenio<sup>2</sup>, Carraro Elisabetta<sup>1</sup>,9 Giorgio Gilli<sup>1</sup>

10

11 **AFFILIATIONS:**12 <sup>1</sup> Department of Public Health and Pediatrics, University of Torino, piazza Polonia 94, 10126

13 Torino, Italy

14 <sup>2</sup>SMAT - Società Metropolitana Acque Torino S.p.A. Corso XI Febbraio, 14 10152 Torino. Italy

15

16 **\*CORRESPONDING AUTHOR:**

17 Deborah Traversi

18 Tel: +390116705822 Fax: +390116705874

19 Department of Public Health and Pediatrics, University of Torino, piazza Polonia 94, 10126 Torino,

20 Italy

21 e-mail: [deborah.traversi@unito.it](mailto:deborah.traversi@unito.it)

22

23 **KEYWORDS:** anaerobic digestion, waste water treatment plant, methanogens, sulphate reducing

24 bacteria, qRT-PCR, biogas

Download English Version:

<https://daneshyari.com/en/article/7074873>

Download Persian Version:

<https://daneshyari.com/article/7074873>

[Daneshyari.com](https://daneshyari.com)