Accepted Manuscript

Removal of antibiotic residues, antibiotic resistant bacteria and antibiotic resistance genes in municipal wastewater by membrane bioreactor systems

Thai-Hoang Le, Charmaine Ng, Ngoc Han Tran, Hongjie Chen, Karina Yew-Hoong Gin

PII: S0043-1354(18)30690-0

DOI: 10.1016/j.watres.2018.08.060

Reference: WR 14036

To appear in: Water Research

Received Date: 23 February 2018

Revised Date: 26 August 2018

Accepted Date: 27 August 2018

Please cite this article as: Le, T.-H., Ng, C., Tran, N.H., Chen, H., Yew-Hoong Gin, K., Removal of antibiotic residues, antibiotic resistant bacteria and antibiotic resistance genes in municipal wastewater by membrane bioreactor systems, *Water Research* (2018), doi: 10.1016/j.watres.2018.08.060.

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.



ACCEPTED MANUSCRIPT

1	Removal of antibiotic residues, antibiotic resistant bacteria and antibiotic
2	resistance genes in municipal wastewater by membrane bioreactor systems
3	
4	Thai-Hoang Le ^{1,3} , Charmaine Ng ^{2,3} , Ngoc Han Tran ³ , Hongjie Chen ⁴ , Karina Yew-
5	Hoong Gin ^{3,4*}
6	
7	¹ Department of Environmental Engineering, International University, Vietnam National
8	University, Ho Chi Minh City, Vietnam
9	² National University of Singapore, Department of Surgery, 1E Kent Ridge Road, NUHS
10	Tower Block, Level 8, Singapore 119228
11	³ NUS Environmental Research Institute (NERI), National University of Singapore,
12	Singapore, T-Lab Building (# 02-01), 5A Engineering Drive 1, Singapore 117411
13	⁴ Department of Civil & Environmental Engineering, National University of Singapore, Block
14	E1A-07-03, 1 Engineering Drive 2, Singapore 117576
15	
16	*Corresponding author: Department of Civil & Environmental Engineering, National
17	University of Singapore, Blk E1A-07-03, 1 Engineering Drive 2, Singapore 117576 Tel: (65)
18	65168104, Email: ceeginyh@nus.edu.sg (K.Y.H. Gin)
19	

Download English Version:

https://daneshyari.com/en/article/10115955

Download Persian Version:

https://daneshyari.com/article/10115955

Daneshyari.com