

Supporting information for

**Enhancement of anammox performance in a novel non-woven fabric
membrane bioreactor (nMBR)**

Long-Fei Ren^a, Shuang Liang^a, Huu Hao Ngo^b, Wenshan Guo^b, Shou-Qing Ni^{a,*}, Cui
Liu^c, Yuan-Kun Zhao^{a,d}, Daisuke Hira^e

^a *Shandong Provincial Key Laboratory of Water Pollution Control and Resource Reuse, School of Environmental Science and Engineering, Shandong University, No. 27 Shanda South Road, Jinan 250100, Shandong, PR China.*

^b *Centre for Technology in Water and Wastewater, School of Civil and Environmental Engineering, University of Technology Sydney, Sydney, NSW 2007, Australia.*

^c *Department of Mathematics and Statistics, Texas Tech University, Broadway and Boston, Lubbock, TX 79409-1042, USA.*

^d *School of Civil and Environmental Engineering, Georgia Institute of Technology, North Ave NW, Atlanta, GA 30332, USA.*

^e *Department of Applied Life Science, Faculty of Biotechnology and Life Science, Sojo University, 4-22-1 Ikeda, Kumamoto 860-0082, Japan.*

* *Corresponding author: Shou-Qing Ni, School of Environmental Science and Engineering, Shandong University, Jinan, Shandong, PR China, 250100. E-mail: sqni@sdu.edu.cn*

Number of figures: 4

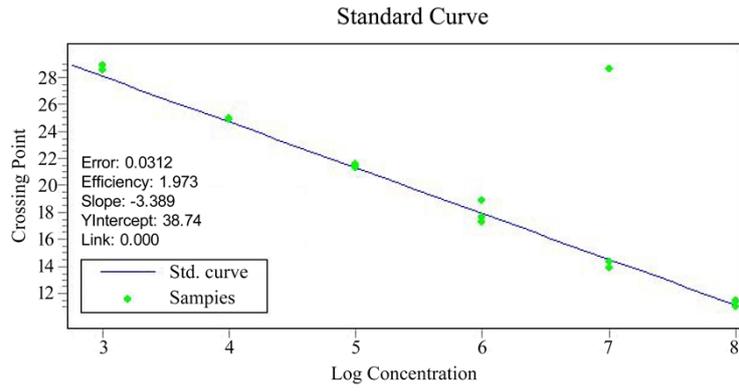


Fig. S1. The standard curves of anammox bacteria.

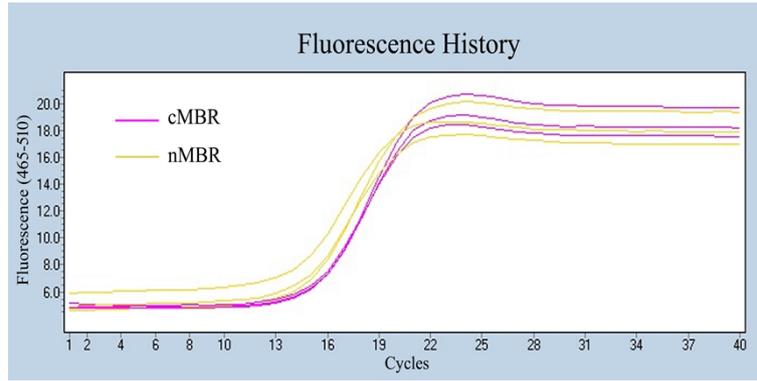


Fig. S2. (a) The amplification curves of cMBR and nMBR on day 60.

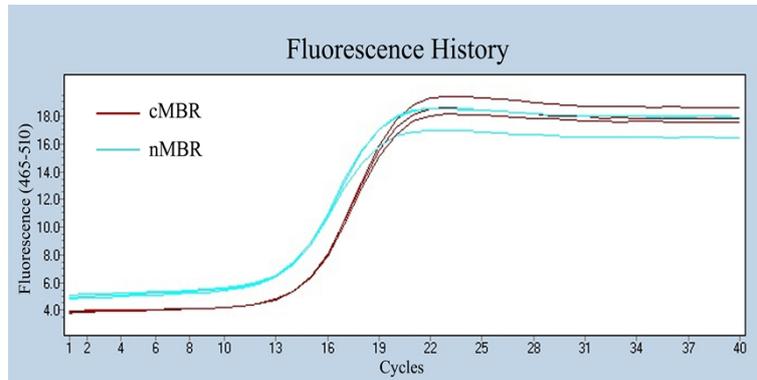


Fig. S2. (b) The amplification curves of cMBR and nMBR on day 120.

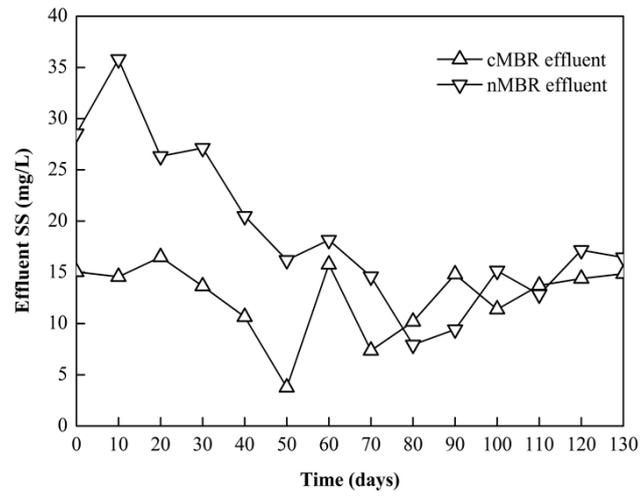


Fig. S3. The effluent SS of cMBR and nMBR during 120-day operation.

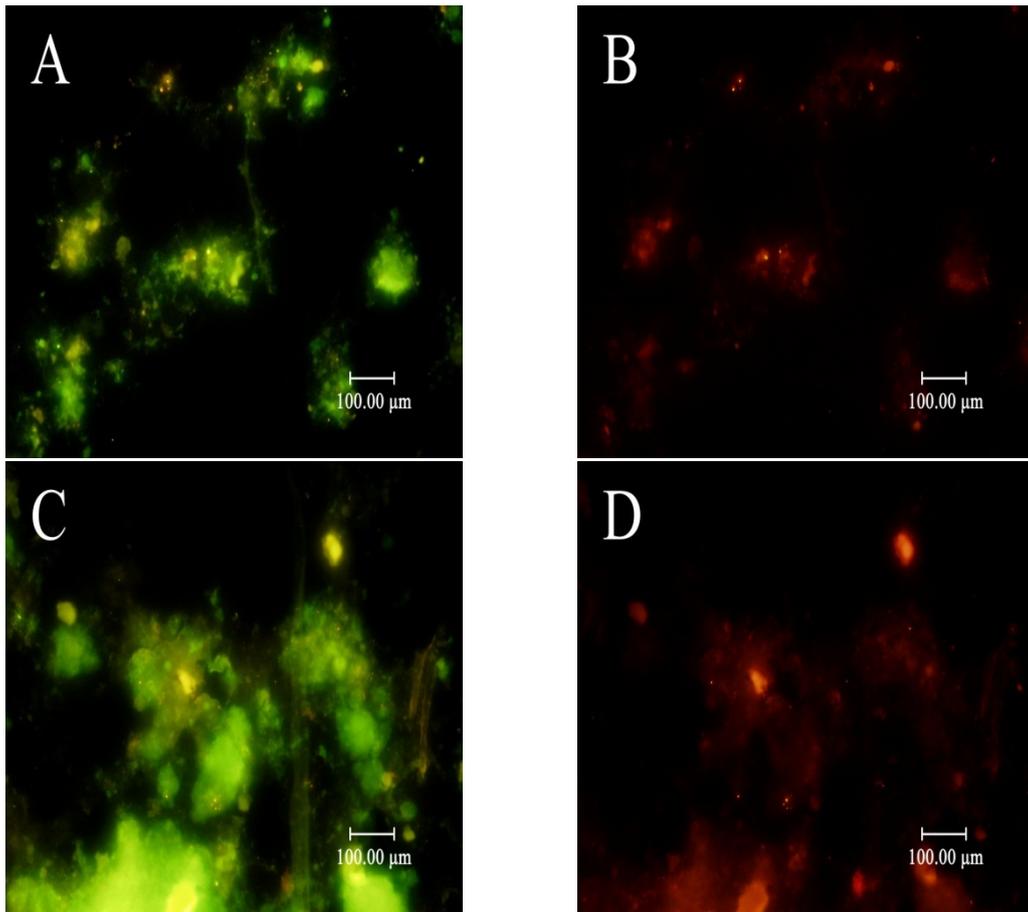


Fig. S4. (a) FISH image of total cells in an aggregate of cMBR on day 120; (b) FISH image of anammox bacteria in the same aggregate of cMBR on day 120; (c) FISH image of total cells in an aggregate of nMBR on day 120; (d) FISH image of anammox bacteria in the same aggregate of nMBR on day 120.