

Appendices

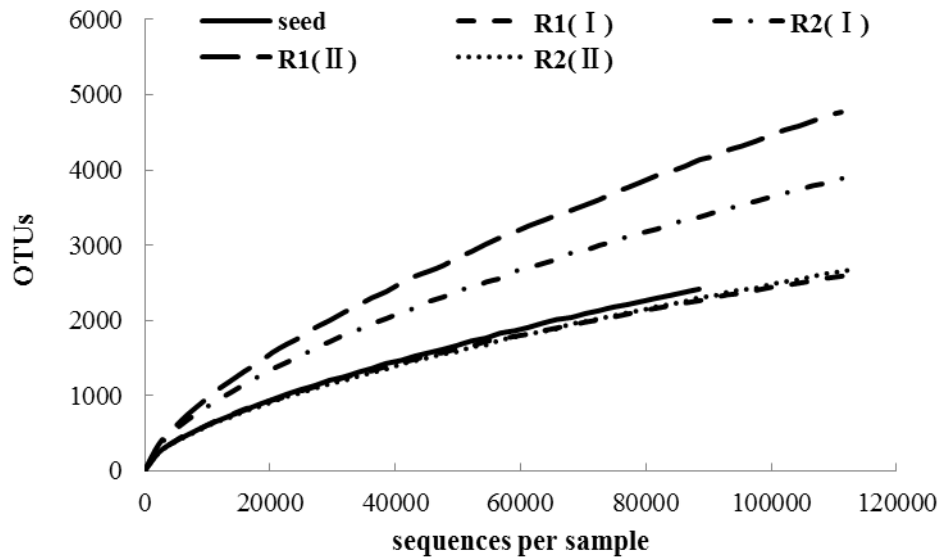


Fig. A1 Rarefaction analysis of seed flocs sludge and aerobic granules in both reactors at the end of phase I and phase II. Rarefaction curves of OTUs defined by a 97% similarity in all 5 samples

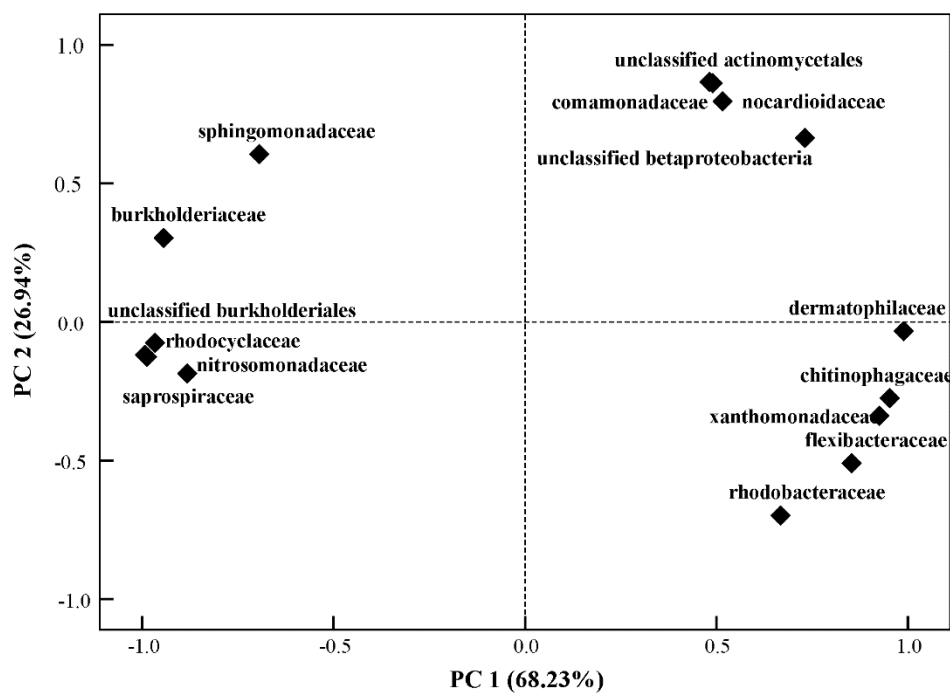


Fig. A2 Principal component analysis diagram for 5 samples at Family level

Table A1 Phylogenetic classification of the dominant OTUs (relative abundance > 1% at different levels) in the seed flocs sludge and aerobic granules of both reactors at the end of phaseI and phaseII

		seed	R1(I)	R2(I)	R1(II)	R2(II)	
phylum level	<i>actinobacteria</i>	1.92%	4.28%	6.15%	3.26%	1.94%	
	<i>bacteroidetes</i>	12.22%	15.64%	9.75%	8.17%	9.21%	
	<i>firmicutes</i>	1.07%	0.58%	0.82%	1.76%	1.26%	
	<i>proteobacteria</i>	83.49%	78.42%	81.99%	84.59%	86.34%	
class level	<i>actinobacteria</i>	1.86%	4.27%	6.13%	3.14%	1.87%	
	<i>sphingobacteria</i>	11.79%	15.14%	7.97%	7.53%	8.62%	
	<i>clostridia</i>	1.05%	0.57%	0.81%	1.73%	1.24%	
	<i>alphaproteobacteria</i>	2.18%	4.19%	2.15%	3.83%	2.88%	
	<i>betaproteobacteria</i>	37.70%	20.89%	33.58%	37.33%	38.49%	
	<i>gammaproteobacteria</i>	43.23%	52.78%	46.18%	43.03%	44.72%	
order level	<i>actinomycetales</i>	1.86%	4.27%	6.13%	3.14%	1.87%	
	<i>sphingobacteriales</i>	11.79%	15.14%	7.97%	7.53%	8.62%	
	<i>clostridiales</i>	0.75%	0.51%	0.51%	1.19%	0.73%	
	<i>rhizobiales</i>	0.66%	0.74%	0.44%	1.13%	0.77%	
	<i>rhodobacterales</i>	0.37%	2.86%	0.38%	0.69%	0.47%	
	<i>sphingomonadales</i>	0.98%	0.31%	1.21%	1.72%	1.40%	
	<i>unclassified</i>	0.17%	1.35%	4.32%	0.19%	0.18%	
	<i>betaproteobacteria</i>						
	<i>burkholderiales</i>	23.16%	18.98%	28.29%	24.58%	23.81%	
	<i>nitrosomonadales</i>	1.52%	0.02%	0.03%	1.48%	1.53%	
	<i>rhodocyclales</i>	11.64%	0.09%	0.37%	10.01%	11.92%	
	<i>xanthomonadales</i>	41.48%	50.37%	45.35%	40.61%	43.03%	
	family level	<i>unclassified actinomycetales</i>	0.19%	0.19%	1.02%	0.26%	0.17%
		<i>dermatophilaceae</i>	0.19%	2.01%	1.57%	0.49%	0.21%
<i>nocardioideaceae</i>		1.33%	1.74%	3.01%	2.16%	1.36%	
<i>chitinophagaceae</i>		2.33%	6.42%	4.36%	1.40%	2.22%	
<i>flexibacteraceae</i>		0.08%	4.84%	1.21%	0.10%	0.09%	
<i>saprospiraceae</i>		8.93%	2.03%	2.04%	5.36%	5.84%	
<i>rhodobacteraceae</i>		0.36%	2.86%	0.38%	0.68%	0.47%	
<i>sphingomonadaceae</i>		0.97%	0.31%	1.19%	1.69%	1.39%	
<i>unclassified</i>		0.17%	1.35%	4.32%	0.19%	0.18%	
<i>betaproteobacteria</i>							
<i>unclassified burkholderiales</i>		1.92%	0.57%	0.56%	2.37%	1.94%	

<i>burkholderiaceae</i>	2.63%	0.39%	1.68%	2.91%	3.06%
<i>comamonadaceae</i>	17.84%	17.96%	25.71%	18.55%	18.21%
<i>nitrosomonadaceae</i>	1.52%	0.02%	0.03%	1.48%	1.53%
<i>rhodocyclaceae</i>	11.64%	0.09%	0.37%	10.01%	11.92%
<i>xanthomonadaceae</i>	40.96%	50.29%	45.26%	40.02%	42.44%
