

Table S2. Biomass production (g L^{-1}), maximum specific growth rate (d^{-1}), productivities ($\text{g L}^{-1} \text{d}^{-1}$ or $\text{g m}^{-2} \text{d}^{-1}$) and bioremediation expressed as removal of COD, N and P in the cultivation of microalgae on primary wastewater.

Type of water	Conditions	Microalgae/Microalgae in symbiosis	Biomass production	Unit	Maximum specific growth rate	Time Unit	Productivities	Unit	Bioremediation removal %			Reference
									COD	N	P	
Primary wastewater	14d 10% BAS	<i>Nannochloropsis oculata</i>	0.337	g L^{-1}	0.41	d^{-1}				82 ± 2	80 ± 3	Şirin et al., (2015)
Primary wastewater	14d 20% BAS	<i>Nannochloropsis oculata</i>	0.406	g L^{-1}	0.37	d^{-1}				86 ± 3	81 ± 2	
Primary wastewater	260d HRAP-PT	<i>Chlorella</i>					15 ± 6	$\text{g VSS m}^{-2} \text{d}^{-1}$	62 ± 22	49 ± 17	37 ± 52	Arashiro L.T. et al., (2019)
Primary wastewater	13d batch	<i>Chlorella saccharophila</i>	0.80 ± 0.08	g L^{-1}	1.15 ± 0.17	d^{-1}				92-97	100	Ferro et al., (2018)
Primary wastewater	13d batch	<i>Chlorella sorokiniana</i>	0.90 ± 0.12	g L^{-1}	1.08 ± 0.16	d^{-1}				92-97	100	
Primary wastewater	13d batch	<i>Chlorella vulgaris</i>	1.15 ± 0.06	g L^{-1}	1.06 ± 0.09	d^{-1}				92-97	100	
Primary wastewater	13d batch	<i>Coelastrella sp</i>	1.46 ± 0.16	g L^{-1}	0.58 ± 0.21	d^{-1}				92-97	100	
Primary wastewater	13d batch	<i>Desmodesmus sp. (RUC-2)</i>	0.87 ± 0.8	g L^{-1}	1.18 ± 0.11	d^{-1}				92-97	100	
Primary wastewater	13d batch	<i>Desmodesmus sp (2-6)</i>	0.99 ± 0.10	g L^{-1}	1.08 ± 0.04	d^{-1}				92-97	100	
Primary wastewater	13d batch	<i>Scenedesmus sp.</i>	1.24 ± 0.04	g L^{-1}	0.90 ± 0.16	d^{-1}				92-97	100	
Primary wastewater	13d batch	<i>Scenedesmus obliquus</i>	1.36 ± 0.27	g L^{-1}	0.90 ± 0.04	d^{-1}				92-97	100	
Primary wastewater	11d Semi-continuous	<i>Chlorella vulgaris</i>	0.42 ± 0.07	g VSS L^{-1}					34-45	92	94	Mendez L. et al., (2016)
Primary wastewater	11d Semi-continuous	<i>Aphanizomenon ovalisporum (Cyanobacteria)</i>	0.5	g VSS L^{-1}					34-45	95	68	
Primary wastewater	11d Semi-continuous	<i>Anabaena planctonica (Cyanobacteria)</i>	0.71	g VSS L^{-1}					35-45	93	84	
Primary wastewater	15 d batch Pre-nitrification process	<i>Tetraselmis sp. CTP4</i>			0.27 ± 0.02	d^{-1}	0.099	$\text{g VSS L}^{-1} \text{d}^{-1}$		84		Schulze P.S.C. et al., (2017)
Primary wastewater	15 d batch Post-nitrification process	<i>Tetraselmis sp. CTP4</i>			0.27 ± 0.02	d^{-1}	0.110	$\text{g VSS L}^{-1} \text{d}^{-1}$		94		
Primary wastewater	15 d continuous Pre-nitrification process	<i>Tetraselmis sp. CTP4</i>			0.41 ± 0.01	d^{-1}	0.335 ± 0.060	$\text{g VSS L}^{-1} \text{d}^{-1}$				

Primary wastewater	15 d continuous Post-nitrification process	<i>Tetraselmis sp. CTP4</i>			0.49±0.02	d ⁻¹	0.351±0.057	g VSS L ⁻¹ d ⁻¹				
Primary wastewater	5d before AnMBBR	<i>Chlorella/Scenedesmus</i>	0.57±0.062	g L ⁻¹					23	94	99	Hultberg et al., (2016)
Primary wastewater	19d M100 (100% wastewater)	<i>Chlorella/Scenedesmus</i>	2.75	g L ⁻¹						93	100	Koreiviene J. et al., (2014)
Primary wastewater	19d M75 (75% wastewater)	<i>Chlorella/Scenedesmus</i>	3.04	g L ⁻¹						96	100	
Primary wastewater	19d M50 (50% wastewater)	<i>Chlorella/Scenedesmus</i>	2.1	g L ⁻¹						96	100	
Primary wastewater	19d M25 (25% wastewater)	<i>Chlorella/Scenedesmus</i>	1.8	g L ⁻¹						89	100	
Primary wastewater	7d Semi-continuous HRT 1,5	<i>Desmodesmus communis</i>	0.20±0.01	g VSS L ⁻¹			0.14	g VSS L ⁻¹ d ⁻¹		47	>99	Samorì G. et al., (2014)
Primary wastewater	7d Semi-continuous HRT 3	<i>Desmodesmus communis</i>	0.44±0.03	g VSS L ⁻¹			0.14	g VSS L ⁻¹ d ⁻¹		99	>99	
Primary wastewater	7d Semi-continuous HRT 5	<i>Desmodesmus communis</i>	0.74±0.02	g VSS L ⁻¹			0.14	g VSS L ⁻¹ d ⁻¹		>99	>99	
Primary wastewater	365d continuous	<i>Microalgae</i>					10	g TSS m ⁻² d ⁻¹	60-92	94-99		Passos et al., (2015)