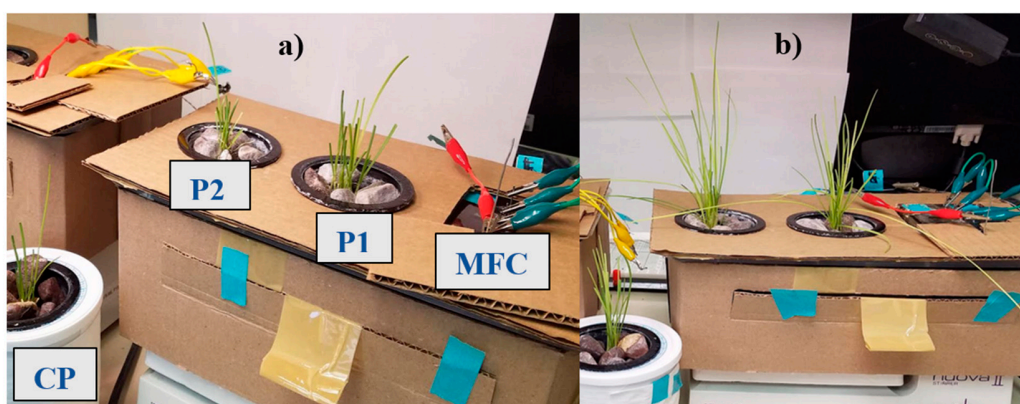


**Figure S1.** The MFC-HyP system: **a)** without a cover; **b)** with a cover



**Figure S2.** Pictorial view of control plant (CP), plant 1 (P1), and plant 2 (P2) in the MFC-HyP system: **a)** on the first day and **b)** after 28 days of operation



**Figure S3.** Pictorial view of roots from **a)** control plant (CP), **b)** plant 1 (P1), and **c)** plant 2 (P2)

**Table S1.** Concentrations of nutrients and COD in the MFC-Hyp system

	Conditions	pH	Ammonium (mg/L)	Nitrate (mg/L)	Phosphate (mg/L)	COD (mg/L)
<b>Control</b>	Feed wastewater	7.24	5.5±0.16	29.5±0.1	3218±14.22	3036.17±13.01
	MFC at Day 28	6.92	64.76±1.08	20.97±0.02	2932.37±22.32	645.86±13.32
	Hyp at Day 28	8.36	0.1±0.01	7.93±0.14	33.28±0.06	14.29±0.16
<b>With <i>A. tuberosum</i></b>	Feed wastewater	7.2	6.6±0.62	32.39±0.17	3307.49±5.81	3429.64±56.62
	MFC at Day 28	6.85	41.34±3.74	22.12±0.01	2931.54±0.79	672.26±3.38
	Hyp at Day 28	8.05	0.08±0.004	7.55±0.11	42.88±0.2	19.97±3.22

**Table S2.** Total available mass of phosphate ( $m_T$ ), mass of phosphate present in the wastewater ( $m_{ww}$ ) and taken up by bacteria ( $m_b$ ) in the MFC, and in water ( $m_w$ ) and taken up by the plant ( $m_p$ ) in the Hyp vessel after the 28 days of operation.

System	$m_T$ (mg)	$m_{ww}$ (mg)	$m_b$ (mg)	$m_w$ (mg)	$m_p$ (mg)
MFC-Hyp control	1705.5±7.54	1554.2±11.83	68.2±14.03	83.2±0.15	0
MFC-Hyp with plants	1753±3.08	1553.7±0.42	68.2±14.03	107.2±0.5	23.9±14.38