

Supplementary Materials

Table S1. Comparison of untreated (R25, R50, R75, R100) and treated (T25, T50, T75, T100) hospital wastewater concentrations on seedling growth of *R. sativus* (Radish) var. Radish Minto Early (\pm Standard Deviation in brackets).¹

	Shoot length	Root length	Seedling length	Shoot fresh weight	Root fresh weight	Shoot dry weight	Root dry weight
	(cm)				(g)		
1. DW	3.8 (± 0.041) **2,3 ****4 - 10	3.1 (± 0.013) ***2 - 10	6.9 (± 0.0540) **3****2, 4 - 10 *2,6,10*3****4,7,8,9	0.138 (± 0.0025) *8***2***3-10	0.031 (± 0.0003) ****2, 4-10	0.089 (± 0.0055) ***2, 4-10	0.012 (± 0.0007) **9***6****2 - 10
2. TW	3.7 (± 0.002) **1	2.9 (± 0.0246) ***1	6.6 (± 0.0266) ***1	0.121 (± 0.0007) *1	0.042 (± 0.0007) ***1	0.0690 (± 0.0011) ***1	0.021 (± 0.0012) ***1
3. R25	3.9 (± 0.03) **1****4	2.8 (± 0.0110) ***1,4	6.7 (± 0.041) **1****4 *1****4	0.16 (± 0.015) ****1,4	0.069 (± 0.0067) ****1,4	0.092 (± 0.0012) ****4	0.039 (± 0.002) ***1,4
4. T25	4.3 (± 0.0130) ***1,3	3.8 (± 0.045) ***1,3	8.1 (± 0.058) ***1,3	0.055 (± 0.0008) ****1,3	0.011 (± 0.0006) ****1,3	0.02 (± 0.0022) ****1,3	0.004 (± 0.0007) ****1,3
5. R50	4.4 (± 0.0015) ***1,6	3.1 (± 0.0025) ***6	7.5 (± 0.003) ***1	0.148 (± 0.0025)	0.137 (± 0.0015) ****1,6	0.0760 (± 0.0007) ****1,6	0.079 (± 0.0025) ****1,6
6. T50	3.1 (± 0.025) ***1,5	4.4 (± 0.0745) ***1,5	7.5 (± 0.0995) ***1	0.158 (± 0.012) *1	0.015 (± 0.012) ***1,5 ****5	0.089 (± 0.0005) ****5	0.0060 (± 0.0009) ***1****5
7. R75	4.9 (± 0.0245) ***1,8	2.6 (± 0.0235) ***1,8	7.5 (± 0.048) ***1	0.204 (± 0.0003) ****1,8	0.009 (± 0.007) ***1,8 ****1,8	0.118 (± 0.005) ****1,8	0.001 (± 0.0001) ****1,8
8. T75	4.6 (± 0.00) ***1,7	2.9 (± 0.045) ***1,7	7.5 (± 0.045) ***1	0.073 (± 0.0008) ****1,7	0.038 (± 0.0015) *1 ****1,7	0.034 (± 0.0013) ****1,7	0.019 (± 0.0016) ****1,7
9. R100	3.6 (± 0.015) ***1,10	2.9 (± 0.045) ***1,10	6.5 (± 0.06) ***1,10 *1****10	0.051 (± 0.0007) ****1****10	0.044 (± 0.0025) ***1 ****1,10	0.019 (± 0.0007) ****1,10	0.017 (± 0.0004) ****1,10
10. T100	4.7 (± 0.0466) ***1,9	3.3 (± 0.052) ***1,9	8.0 (± 0.0986) ***1,9	0.12 (± 0.0025) *1****9	0.043 (± 0.0013) ***1 ****1,9	0.056 (± 0.0015) ****1,9	0.021 (± 0.0008) *9*1
<i>F</i> -value	1526	552	270	191	697	772	929

¹ The associated statistical measurements are calculated from one-way ANOVA and Sidak multiple comparison testing. The comparisons included the control (DW) with each treatment (TW, R25, T25, R50, T50, R75, T75, R100 and T100) and the raw wastewater within each concentration level with the corresponding treated wastewater (e.g., R25 with T25). *Denotes the power of the p-value $p < 0.05^*$, $p < 0.01^{**}$, $p < 0.001^{***}$, $p < 0.0001^{****}$ within different treatments. The F value is the ratio of two mean square values.

Table S2. Comparison of untreated (R25, R50, R75, R100) and treated (T25, T50, T75, T100) hospital wastewater concentrations on seedling growth of *B. oleracea* (Cauliflower) var. Cauliflower 2801 (\pm Standard Deviation in brackets).¹

	Shoot length (cm)	Root length (cm)	Seedling length (cm)	Shoot fresh weight (g)	Root fresh weight (g)	Shoot dry weight (g)	Root dry weight (g)
1. DW	3.0 (\pm 0.02) **2****3 - 10	3.2 (\pm 0.05) **9,10****3 - 8	6.2 (\pm 0.01) ****2 - 10	0.029 (\pm 0.001) ***9****2 - 10	0.011 (\pm 0.00) **2****6,10	0.011 (\pm 0.001) ***5 - 10	0.002 (\pm 0.001) ***9****2 - 8, 10
2. TW	2.9 (\pm 0.05) **1	3.1 (\pm 0.10)	6.01 (\pm 0.002) ****1	0.0230 (\pm 0.00) ****1	0.021 (\pm 0.001) **1	0.012 (\pm 0.00)	0.012 (\pm 0.001)
3. R25	2.1 (\pm 0.01) ****1,4	2.9 (\pm 0.00) ****1,4	5 (\pm 0.002) ****1,4	0.020 (\pm 0.001) ****1	0.014 (\pm 0.001)	0.0110 (\pm 0.01)	0.005 (\pm 0.00) ****1,4
4. T25	3.6 (\pm 0.044) ****1,3	4.1 (\pm 0.10) ****1,3	7.7 (\pm 0.09) ****1,3	0.021 (\pm 0.0003) ****1	0.017 (\pm 0.0008)	0.012 (\pm 0.0007)	0.008 (\pm 0.0001) ****1,3
5. R50	2.3 (\pm 0.01) ****1,6	2.7 (\pm 0.02) ****1,6	5.0 (\pm 0.001) ****1,6	0.016 (\pm 0.001) ****1,6	0.01 (\pm 0.00) ***6	0.007 (\pm 0.001) ****1,6	0.005 (\pm 0.0001) ****1,6
6. T50	3.9 (\pm 0.0001) ****1,5	3.6 (\pm 0.04) ****1,5	7.5 (\pm 0.001) ****1,5	0.029 (\pm 0.0002) ****5	0.06 (\pm 0.008) ***1,5	0.018 (\pm 0.00) ****1,5	0.031 (\pm 0.0001) ****5
7. R75	1.9 (\pm 0.01) ****1,8	2.75 (\pm 0.01) ****1,8	4.65 (\pm 0.003) ****1,8	0.021 (\pm 0.001) ****1 ***8	0.009 (\pm 0.001)	0.012 (\pm 0.001) ****8	0.007 (\pm 0.0001) ****1*8
8. T75	3.4 (\pm 0.003) ****1,7	3.7 (\pm 0.01) ****1,7	7.1 (\pm 0.0001) ****1,7	0.018 (\pm 0.0002) ****1 ***7	0.015 (\pm 0.0007)	0.006 (\pm 0.0006) ****1,7 **7	0.005 (\pm 0.0001) ****1
9. R100	1.8 (\pm 0.01) ****1,10	3.0 (\pm 0.00) **1 ****10	4.8 (\pm 0.0001) ****1,10	0.026 (\pm 0.0002) ****10 *****10	0.0006 (\pm 0.0001)	0.017 (\pm 0.0002) ****1,10	0.004 (\pm 0.0007) ****10
10. T100	3.2 (\pm 0.0556) ****1,9	3.4 (\pm 0.01) **1 ****9	6.6 (\pm 0.022) ****1,9	0.04 (\pm 0.0008) ****1 ***9	0.029 (\pm 0.0004) ****1,9	0.031 (\pm 0.00) ****1,9	0.02 (\pm 0.0001) ****1 ***9
<i>F-value</i>	2047	235.5	4542	305.2	109.5	310.9	958

¹ The associated statistical measurements are calculated from one-way ANOVA and Sidak multiple comparison testing. The comparisons included the control (DW) with each treatment (TW, R25, T25, R50, T50, R75, T75, R100 and T100) and the raw wastewater within each concentration level with the corresponding treated wastewater (e.g., R25 with T25). *Denotes the power of the p-value $p < 0.05^*$, $p < 0.01^{**}$, $p < 0.001^{***}$, $p < 0.0001^{****}$ within different treatments. The F value is the ratio of two mean square values.

Table S3. Comparison of untreated (R25, R50, R75, R100) and treated (T25, T50, T75, T100) hospital wastewater concentrations on seedling growth of *C. annuum* (Hot pepper) var. Seminis Hybrid Hot pepper SKY LINE 3 (\pm Standard Deviation in brackets).¹

	Shoot length	Root length	Seedling length	Shoot fresh weight	Root fresh weight	Shoot dry weight	Root dry weight	
	(cm)				(g)			
1. DW	1.8 (\pm 0.031) ^{***3 ****7 – 10}	3.3 (\pm 0.025) ^{*7 **5 ****3,6 – 10}	5.1 (\pm 0.056) ^{**5,6 ****3,7 – 10}	0.021 (\pm 0.0003) ^{**10 ***7 ****2,5,9}	0.007 (\pm 0.0002) ^{**2,9 ****8,10}	0.006 (\pm 0.0002) ^{**2,7,8 ****5,9}	0.001 (\pm 0.0001) ^{***6 ****4,8,10}	
2. TW	1.9 (\pm 0.0325)	3 (\pm 0.013)	4.9 (\pm 0.0455)	0.0017 (\pm 0.0007) ^{**1}	0.009 (\pm 0.0004) ^{**1}	0.004 (\pm 0.0006) ^{**1}	0.001 (\pm 0.0002)	
3. R25	1.6 (\pm 0.051) ^{***3 ****4}	2.4 (\pm 0.045) ^{****1,4}	4.0 (\pm 0.096) ^{****1,4}	0.022 (\pm 0.0011) ^{****4}	0.008 (\pm 0.0004) ^{****4}	0.006 (\pm 0.0006)	0.001 (\pm 0.0003) ^{****4}	
4. T25	1.8 (\pm 0.0146) ^{****3}	3.6 (\pm 0.051) ^{****3}	5.4 (\pm 0.0656) ^{****3}	0.016 (\pm 0.0002) ^{****3}	0.018 (\pm 0.0004) ^{****1,3}	0.05 (\pm 0.0006)	0.07 (\pm 0.0001) ^{****1,3}	
5. R50	1.7 (\pm 0.024) ^{***6}	2.8 (\pm 0.011) ^{**1}	4.5 (\pm 0.035) ^{**1}	0.016 (\pm 0.0003) ^{****1,6}	0.006 (\pm 0.0002) ^{****6}	0.003 (\pm 0.0001) ^{****1,6}	0.001 (\pm 0.0004) ^{****6}	
6. T50	1.9 (\pm 0.0695) ^{***5}	2.6 (\pm 0.008) ^{****1}	4.5 (\pm 0.0775) ^{**1}	0.02 (\pm 0.016) ^{****5}	0.013 (\pm 0.0003) ^{****5}	0.007 (\pm 0.0007) ^{****5}	0.003 (\pm 0.0004) ^{**1}	
7. R75	1.4 (\pm 0.011) ^{****1,8}	2.9 (\pm 0.024) ^{*1 ****8}	4.3 (\pm 0.035) ^{****1}	0.017 (\pm 0.0005) ^{***1}	0.008 (\pm 0.003) ^{****8}	0.004 (\pm 0.0007) ^{**1} ^{****8}	0.002 (\pm 0.0007) ^{***8}	
8. T75	2.2 (\pm 0.055) ^{****1,7}	2.0 (\pm 0.022) ^{****1,7}	4.2 (\pm 0.077) ^{****1}	0.019 (\pm 0.0012) ^{****1,7}	0.011 (\pm 0.0009) ^{****1,7}	0.008 (\pm 0.0005) ^{**1} ^{****7}	0.004 (\pm 0.0008) ^{***7} ^{****1}	
9. R100	1.3 (\pm 0.001) ^{****1,10}	3.0 (\pm 0.0342) ^{****10}	4.3 (\pm 0.343) ^{****1,10}	0.031 (\pm 0.0006) ^{**1 ****10}	0.009 (\pm 0.0009) ^{**1 ****10}	0.014 (\pm 0.0005) ^{****1,10}	0.002 (\pm 0.0004) ^{****10}	
10. T100	2.3 (\pm 0.102) ^{****1,9}	5.2 (\pm 0.1769) ^{****1,9}	7.5 (\pm 0.2789) ^{****1,9}	0.018 (\pm 0.0013) ^{****1,9}	0.019 (\pm 0.0007) ^{****1,9}	0.006 (\pm 0.0002) ^{****9}	0.008 (\pm 0.0003) ^{****1,9}	
<i>F-value</i>	124.6	146.2	136.8	73.03	214.7	108.3	108.1	

¹ The associated statistical measurements are calculated from one-way ANOVA and Sidak multiple comparison testing. The comparisons included the control (DW) with each treatment (TW, R25, T25, R50, T50, R75, T75, R100 and T100) and the raw wastewater within each concentration level with the corresponding treated wastewater (e.g., R25 with T25). *Denotes the power of the p-value $p < 0.05^*$, $p < 0.01^{**}$, $p < 0.001^{***}$, $p < 0.0001^{****}$ within different treatments. The F value is the ratio of two mean square values.

Table S4. Comparison of untreated (R25, R50, R75, R100) and treated (T25, T50, T75, T100) hospital wastewater concentrations on seedling growth of *T. aestivum* (Wheat) var. FSD-2008 (\pm Standard Deviation in brackets).¹

	Shoot length	Root length	Seedling length	Shoot fresh weight	Root fresh weight	Shoot dry weight	Root dry weight
	(cm)				(g)		
1. DW	8.5 (\pm 0.041) **** ₂₋₁₀	8.1 (\pm 0.003) **** ₂₋₁₀	16.6 (\pm 0.0404) * ₃ **** _{2, 4-10}	0.11 (\pm 0.005) * _{4,5,10} * ₈ *** ₃ *** _{6,9}	0.124 (\pm 0.0025) * ₂ *** ₃₋₁₀	0.041 (\pm 0.001) **** ₂₋₁₀	0.056 (\pm 0.001) **** ₂₋₁₀
2. TW	9.2 (\pm 0.02) *** ₁	10.5 (\pm 0.045) *** ₁	19.7 (\pm 0.065) *** ₁	0.103 (\pm 0.0008)	0.119 (\pm 0.0015) * ₁	0.035 (\pm 0.0021) *** ₁	0.049 (\pm 0.0015) *** ₁
3. R25	9.1 (\pm 0.0168) *** _{1,4}	7.3 (\pm 0.0422) *** _{1,4}	16.4 (\pm 0.059) *** ₄	0.091 (\pm 0.007) *** ₁	0.083 (\pm 0.0006) *** ₁	0.029 (\pm 0.0009) ** ₄ *** ₁	0.021 (\pm 0.0006) *** ₁
4. T25	9.9 (\pm 0.005) *** _{1,3}	10.2 (\pm 0.011) *** _{1,3}	20.1 (\pm 0.016) *** _{1,3}	0.099 (\pm 0.0014) * ₁	0.085 (\pm 0.0011) *** ₁	0.033 (\pm 0.0008) ** ₃ *** ₁	0.024 (\pm 0.0008) *** ₁
5. R50	8.1 (\pm 0.0268) *** _{1,6}	7.3 (\pm 0.025) *** _{1,6}	15.4 (\pm 0.0518) *** _{1,6}	0.097 (\pm 0.0011) * ₁ *** ₆	0.087 (\pm 0.0009) *** _{1,6}	0.031 (\pm 0.0005) *** _{1,6}	0.019 (\pm 0.0003) *** ₁
6. T50	7.1 (\pm 0.0015) *** _{1,5}	8.9 (\pm 0.021) *** _{1,5}	16.0 (\pm 0.0225) *** _{1,5}	0.077 (\pm 0.011) *** ₁ *** ₅	0.068 (\pm 0.0003) *** _{1,5}	0.019 (\pm 0.0006) *** _{1,5}	0.016 (\pm 0.0002) *** ₁
7. R75	7.9 (\pm 0.0599) *** _{1,8}	9.6 (\pm 0.0652) *** _{1,8}	17.5 (\pm 0.1251) ** ₈ *** ₁	0.114 (\pm 0.0022) *** ₈	0.103 (\pm 0.0014) *** _{1,8}	0.042 (\pm 0.0003) *** ₈	0.032 (\pm 0.0009) *** _{1,8}
8. T75	9.1 (\pm 0.0024) *** _{1,7}	8.6 (\pm 0.041) *** _{1,7}	17.7 (\pm 0.0434) ** ₇ *** ₁	0.096 (\pm 0.0007) ** ₁ *** ₇	0.071 (\pm 0.0003) *** _{1,7}	0.023 (\pm 0.0002) *** _{1,7}	0.017 (\pm 0.0011) *** _{1,7}
9. R100	4.9 (\pm 0.041) *** _{1,10}	6.4 (\pm 0.0622) *** _{1,10}	11.3 (\pm 0.1032) *** _{1,10}	0.073 (\pm 0.0004) *** ₁	0.048 (\pm 0.0006) *** _{1,10}	0.015 (\pm 0.0002) *** _{1,10}	0.013 (\pm 0.0004) *** _{1,10}
10. T100	9.6 (\pm 0.0195) *** _{1,9}	9.1 (\pm 0.0237) *** _{1,9}	18.7 (\pm 0.0432) *** _{1,9}	0.122 (\pm 0.0115) *** _{1,9}	0.089 (\pm 0.004) *** _{1,9}	0.053 (\pm 0.0015) *** _{1,9}	0.032 (\pm 0.003) *** _{1,9}
F-value	7504	3469	4441	42.03	545.3	398	405.5

¹ The associated statistical measurements are calculated from one-way ANOVA and Sidak multiple comparison testing. The comparisons included the control (DW) with each treatment (TW, R25, T25, R50, T50, R75, T75, R100 and T100) and the raw wastewater within each concentration level with the corresponding treated wastewater (e.g., R25 with T25). *Denotes the power of the p-value $p < 0.05^*$, $p < 0.01^{**}$, $p < 0.001^{***}$, $p < 0.0001^{****}$ within different treatments. The F value is the ratio of two mean square values.

Table S5. Comparison of untreated (R25, R50, R75, R100) and treated (T25, T50, T75, T100) hospital wastewater concentrations on seedling growth of *O. sativa* (Rice) var. PS-2 (PK-112) (\pm Standard Deviation in brackets).¹

	Shoot length (cm)	Root length (cm)	Seedling length (cm)	Shoot fresh weight (g)	Root fresh weight (g)	Shoot dry weight (g)	Root dry weight (g)
1. DW	5.2 (± 0.154) *** ² **** _{3,10}	8.3 (± 0.135) * ⁴ **** _{3 - 10}	13.5 (± 0.289) * ² **** _{3 - 10}	0.015 (± 0.0008) *** ⁶ **** _{2,3,5,7,9,10}	0.056 (± 0.0035) * ^{3,10} *** ⁷ **** _{4,8}	0.004 (± 0.0008) *** _{2-4,7,9,10}	0.029 (± 0.0027) ** ² *** _{6,10} **** _{3,7}
2. TW	4.7 (± 0.171) *** ¹	7.9 (± 0.6491)	12.6 (± 0.8201) * ¹	0.009 (± 0.0003) *** ¹	0.053 (± 0.0031)	0.002 (± 0.0001) *** ¹	0.025 (± 0.0009) ** ¹
3. R25	3.9 (± 0.111) *** ⁴ **** ¹	3.3 (± 0.0502) **** _{1,4}	7.2 (± 0.1612) **** _{1,4}	0.01 (± 0.0011) *** ⁴ **** ¹	0.05 (± 0.0011) * ¹ **** ⁴	0.002 (± 0.0001) *** _{1,4}	0.022 (± 0.0012) *** _{1,4}
4. T25	4.3 (± 0.0445) *** ³ **** ¹	7.7 (± 0.0491) * ¹ **** ³	12 (± 0.0936) *** ^{1,3}	0.014 (± 0.0003) *** ³	0.063 (± 0.0011) *** ₃ **** ¹	0.006 (± 0.0008) *** _{1,3}	0.031 (± 0.0008) *** ₃
5. R50	3.9 (± 0.111) *** ^{1,6}	6.1 (± 0.0775) * ⁶ **** ¹	10.0 (± 0.1885) * ⁶ **** ¹	0.01 (± 0.0014) *** ¹	0.056 (± 0.0015)	0.003 (± 0.0002)	0.029 (± 0.0017) *** ⁶
6. T50	3.7 (± 0.0422) *** ^{1,5}	5.4 (± 0.046) * ⁵ **** ¹	9.1 (± 0.0882) * ⁵ **** ¹	0.011 (± 0.0008) *** ¹	0.052 (± 0.0012)	0.004 (± 0.0003)	0.024 (± 0.0009) *** _{1,5}
7. R75	2.8 (± 0.1201) *** ^{1,8}	4.8 (± 0.031) **** _{1,8}	7.6 (± 0.1511) *** ^{1,8}	0.007 (± 0.0008) *** ^{1,8}	0.047 (± 0.0001) *** ₁ **** ⁸	0.001 (± 0.00) *** _{1,8}	0.018 (± 0.0006) *** _{1,8}
8. T75	5.1 (± 0.11) *** ⁷	10.2 (± 0.031) **** _{1,7}	15.3 (± 0.142) **** _{1,7}	0.015 (± 0.0007) *** ⁸	0.0063 (± 0.0015) *** _{1,7}	0.005 (± 0.0002) *** ⁸	0.032 (± 0.0003) *** ⁷
9. R100	4.2 (± 0.013) *** ^{1,10}	4.8 (± 0.135) *** ^{1,10}	9 (± 0.148) *** ^{1,10}	0.01 (± 0.0012) *** ¹	0.054 (± 0.0017) *** ¹	0.002 (± 0.0001) *** ¹	0.026 (± 0.0006)
10. T100	3.1 (± 0.0885) *** ^{1,9}	3.4 (± 0.091) *** ^{1,9}	6.5 (± 0.1795) *** ^{1,9}	0.008 (± 0.0006) *** ¹	0.05 (± 0.0022) * ¹	0.001 (± 0.0002) *** ¹	0.023 (± 0.0007) *** ¹
<i>F-value</i>	159.3	321.3	279.1	32.14	22.34	57.02	37.97

¹ The associated statistical measurements are calculated from one-way ANOVA and Sidak multiple comparison testing. The comparisons included the control (DW) with each treatment (TW, R25, T25, R50, T50, R75, T75, R100 and T100) and the raw wastewater within each concentration level with the corresponding treated wastewater (e.g., R25 with T25). *Denotes the power of the p-value $p < 0.05^*$, $p < 0.01^{**}$, $p < 0.001^{***}$, $p < 0.0001^{****}$ within different treatments. The F value is the ratio of two mean square values.