Effect of raw and purified carbon nanotubes and iron oxide nanoparticles on the growth of wheatgrass prepared from the cotyledons of common wheat (triticum aestivum)

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Table S1. EDX analysis of NPs.

<table>
<thead>
<tr>
<th>Sample</th>
<th>No. of replicates</th>
<th>C</th>
<th>O</th>
<th>Fe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw-SWCNTs</td>
<td>5</td>
<td>88.3 (0.52)</td>
<td>6.8 (0.59)</td>
<td>4.4 (0.63)</td>
</tr>
<tr>
<td>Purified-SWCNTs</td>
<td>5</td>
<td>77.7 (3.6)</td>
<td>9.5 (1.3)</td>
<td>1.2 (0.4)</td>
</tr>
<tr>
<td>n-FeOx</td>
<td>9</td>
<td>26.48 (10.37)</td>
<td>36.58 (10.28)</td>
<td>36.48 (20.36)</td>
</tr>
</tbody>
</table>
Fig. S1 High resolution TEM of raw HiPco SWCNTs showing the presence of residual catalyst particles. Scale bar = 10 nm.

Fig. S2 TGA/DSC of raw HiPco SWCNTs.
**Fig. S3** Raman of raw HiPco SWCNTs.

**Fig. S4** High contrast TEM of FeO$_x$ NPs.
Fig. S5 TGA/DSC of FeO\textsubscript{x} NPs.
Fig. S6 Photographic images of wheatgrass seeds (day 0) and subsequent plants after 6 days growth. The sample numbers correspond to those in Table 1.
Fig. S7 Plot of MGT (days) for wheatgrass seeds. The sample numbers correspond to those in Table 1.
Fig. S8 Plot of average MGT (days) for wheatgrass seeds. The sample numbers correspond to those in Table 1.
Fig. S9 Plot of seed height for wheatgrass seeds. The sample numbers correspond to those in Table 1.
**Fig. S10** Visual growth scores of the seeds/seedlings over time for each treatment condition. The sample numbers correspond to those in Table 1.