Supplementary Figure 1:

**Fig. S1** TEM image of GO in K medium. Before observation, GO in K medium was sonicated.
**Fig. S2** Effects of GO exposure on lethality (a) and growth (b) of *C. elegans*. Exposure to GO was performed from L4-larvae for 24-hr (acute exposure) or from L1-larvae to adult (prolonged exposure). Bars represent means ± S.E.M. **p < 0.01.**
Fig. S3 Effects of GO exposure on lifespan of *C. elegans*. Exposure to GO was performed from L4-larvae for 24-hr (acute exposure) or from L1-larvae to adult (prolonged exposure).
**Supplementary Figure 4:**

**Fig. S4** Transgenerational effects of prolonged GO exposure on growth of *C. elegans.* Prolonged exposure to GO was performed from L1-larvae to adult. F1 and F2 progeny nematodes were cultured on normal NGM plates. Bars represent means ± S.E.M. **p < 0.01.**
**Research Paper; Submitted to “Nanoscale”**

**Supplementary Table 1:**

**Table S1.** Information on genes required for oxidative stress control in *C. elegans*

<table>
<thead>
<tr>
<th>Gene</th>
<th>Products of the genes</th>
</tr>
</thead>
<tbody>
<tr>
<td>sod-1</td>
<td>copper/zinc superoxide dismutase</td>
</tr>
<tr>
<td>sod-2</td>
<td>manganese - superoxide dismutase</td>
</tr>
<tr>
<td>sod-3</td>
<td>manganese - superoxide dismutase</td>
</tr>
<tr>
<td>sod-4</td>
<td>copper/zinc superoxide dismutase</td>
</tr>
<tr>
<td>sod-5</td>
<td>copper/zinc superoxide dismutase</td>
</tr>
<tr>
<td>isp-1</td>
<td>“Rieske” iron-sulfur protein</td>
</tr>
<tr>
<td>mev-1</td>
<td>a subunit of the enzyme succinate dehydrogenase cytochrome b</td>
</tr>
<tr>
<td>gas-1</td>
<td>subunit of mitochondrial complex I</td>
</tr>
<tr>
<td>clk-1</td>
<td>ubiquinone biosynthesis protein COQ7</td>
</tr>
<tr>
<td>ctl-1</td>
<td>catalase</td>
</tr>
<tr>
<td>ctl-2</td>
<td>catalase</td>
</tr>
<tr>
<td>ctl-3</td>
<td>catalase</td>
</tr>
</tbody>
</table>
**Table S2** Association of intestinal ROS production with the toxicity from prolonged exposure to GO in *C. elegans*

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Independent variable</th>
<th>$R^2$</th>
<th>$p$ value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intestinal ROS production</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Body length</td>
<td></td>
<td>0.827</td>
<td>&lt; 0.05</td>
</tr>
<tr>
<td>Brood size</td>
<td></td>
<td>0.839</td>
<td>&lt; 0.05</td>
</tr>
<tr>
<td>Body bend</td>
<td></td>
<td>0.810</td>
<td>&lt; 0.05</td>
</tr>
<tr>
<td>Head thrash</td>
<td></td>
<td>0.929</td>
<td>&lt; 0.01</td>
</tr>
<tr>
<td>Intestinal autofluorescence</td>
<td></td>
<td>0.966</td>
<td>&lt; 0.01</td>
</tr>
</tbody>
</table>
Supplementary Table 3:

Table S3. Information on genes required for intestinal development in *C. elegans*

<table>
<thead>
<tr>
<th>Gene</th>
<th>Products of the genes</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>gem-4</em></td>
<td>Ca(^{2+})-dependent phosphatidylserine binding protein</td>
</tr>
<tr>
<td><em>mtm-6</em></td>
<td>myotubulin lipid phosphatase orthologous</td>
</tr>
<tr>
<td><em>nhx-2</em></td>
<td>sodium/proton exchanger</td>
</tr>
<tr>
<td><em>opt-1</em></td>
<td>high-affinity, proton-coupled oligopeptide transporter</td>
</tr>
<tr>
<td><em>pkc-3</em></td>
<td>atypical protein kinase</td>
</tr>
<tr>
<td><em>par-3</em></td>
<td>PDZ domain-containing protein orthologous</td>
</tr>
<tr>
<td><em>par-6</em></td>
<td>PDZ-domain-containing protein</td>
</tr>
<tr>
<td><em>pgp-1</em></td>
<td>transmembrane protein</td>
</tr>
<tr>
<td><em>pgp-3</em></td>
<td>transmembrane protein</td>
</tr>
<tr>
<td><em>vha-6</em></td>
<td>membrane-bound (V0) domain of vacuolar proton-translocating ATPase (V-ATPase);</td>
</tr>
<tr>
<td><em>gtl-1</em></td>
<td>TRPM subfamily member of the TRP channel family</td>
</tr>
<tr>
<td><em>erm-1</em></td>
<td>ortholog of the ERM family of cytoskeletal linkers</td>
</tr>
<tr>
<td><em>eps-8</em></td>
<td>homolog of mouse epidermal growth factor receptor kinase</td>
</tr>
<tr>
<td></td>
<td>substrate</td>
</tr>
<tr>
<td><em>act-5</em></td>
<td>ortholog of human cytoplasmic actin</td>
</tr>
<tr>
<td><em>ifb-2</em></td>
<td>nonessential intermediate filament protein</td>
</tr>
<tr>
<td><em>dlg-1</em></td>
<td>MAGUK protein</td>
</tr>
<tr>
<td><em>ajm-1</em></td>
<td>member of the apical junction molecule class</td>
</tr>
<tr>
<td><em>egl-8</em></td>
<td>phospholipase C beta homolog</td>
</tr>
<tr>
<td><em>let-413</em></td>
<td>protein with strong similarity to human ERBIN, rat DENSIN, Drosophila SCRIB and its human ortholog hSCRIB</td>
</tr>
<tr>
<td><em>nfm-1</em></td>
<td>homolog of human merlin/schwannomin (NF2)</td>
</tr>
<tr>
<td><em>inx-3</em></td>
<td>gap protein</td>
</tr>
<tr>
<td><em>nhx-4</em></td>
<td>sodium/proton exchanger</td>
</tr>
</tbody>
</table>
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| abts-4          | anion transporter |
### Supplementary Table 4:

**Table S4. Information on genes required for defecation in *C. elegans***

<table>
<thead>
<tr>
<th>Gene</th>
<th>Products of the genes</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>unc-16</em></td>
<td>homolog of murine JIP3 (c-Jun N-terminal kinase (JNK)-interacting protein 3</td>
</tr>
<tr>
<td><em>unc-33</em></td>
<td>homolog of murine JIP3 (c-Jun N-terminal kinase (JNK)-interacting protein 3</td>
</tr>
<tr>
<td><em>unc-44</em></td>
<td>ankyrin-like protein</td>
</tr>
<tr>
<td><em>unc-101</em></td>
<td>adaptin orthologous to the mu1-I subunit of adaptor protein complex 1 (AP-1)</td>
</tr>
<tr>
<td><em>aex-1</em></td>
<td>novel, C2 calcium-binding domain protein</td>
</tr>
<tr>
<td><em>aex-3</em></td>
<td>guanine nucleotide exchange factor</td>
</tr>
<tr>
<td><em>aex-5</em></td>
<td>ortholog of calcium-dependent serine endoproteinases</td>
</tr>
<tr>
<td><em>cab-1</em></td>
<td>novel protein with a C-terminal motif weakly homologous</td>
</tr>
<tr>
<td><em>egl-36</em></td>
<td>Shaw-type voltage-gated potassium channel</td>
</tr>
<tr>
<td><em>unc-2</em></td>
<td>calcium channel alpha subunit</td>
</tr>
<tr>
<td><em>unc-36</em></td>
<td>alpha2/delta subunit of a voltage-gated calcium channel</td>
</tr>
<tr>
<td><em>unc-13</em></td>
<td>protein that regulates neurotransmitter release</td>
</tr>
<tr>
<td><em>fat-3</em></td>
<td>delta-6 fatty acid desaturase (‘linoleoyl-CoA desaturase’)</td>
</tr>
<tr>
<td><em>egl-30</em></td>
<td>ortholog of heterotrimeric G protein alpha subunit Gq (Gq/G11 class)</td>
</tr>
<tr>
<td><em>exp-2</em></td>
<td>member of the six-transmembrane voltage-activated (Kv-type) family of potassium channels</td>
</tr>
<tr>
<td><em>unc-43</em></td>
<td>type II calcium/calmodulin-dependent protein kinase (CaMKII)</td>
</tr>
<tr>
<td><em>egl-2</em></td>
<td>voltage-gated potassium channel</td>
</tr>
<tr>
<td><em>sup-9</em></td>
<td>TWK (two-P domain K⁺) potassium channel subunits</td>
</tr>
<tr>
<td><em>sup-10</em></td>
<td>potassium channel</td>
</tr>
<tr>
<td><em>unc-93</em></td>
<td>transmembrane protein</td>
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<tr>
<td>Gene</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>unc-25</td>
<td>GABA neurotransmitter biosynthetic enzyme, glutamic acid decarboxylase (GAD)</td>
</tr>
<tr>
<td>lim-6</td>
<td>LIM class homeodomain protein</td>
</tr>
<tr>
<td>unc-47</td>
<td>transmembrane vesicular GABA transporter</td>
</tr>
<tr>
<td>gat-1</td>
<td>electrogenic, Na'/Cl'-coupled, high-affinity GABA transporter</td>
</tr>
<tr>
<td>hlh-8</td>
<td>helix-loop-helix protein</td>
</tr>
<tr>
<td>exp-1</td>
<td>excitatory, cation-selective GABA receptor</td>
</tr>
<tr>
<td>tax-6</td>
<td>ortholog of calcineurin A</td>
</tr>
<tr>
<td>dsc-1</td>
<td>transcription factor CHX10 and related HOX domain proteins</td>
</tr>
<tr>
<td>flr-1</td>
<td>ion channel</td>
</tr>
<tr>
<td>flr-4</td>
<td>predicted Ser/Thr protein kinase</td>
</tr>
<tr>
<td>tri-1</td>
<td>tam3-transposase (Ac family)</td>
</tr>
<tr>
<td>smp-1</td>
<td>semaphorin</td>
</tr>
<tr>
<td>itr-1</td>
<td>putative inositol (1,4,5) trisphosphate receptor</td>
</tr>
<tr>
<td>plc-3</td>
<td>phospholipase C gamma homolog</td>
</tr>
<tr>
<td>vav-1</td>
<td>Rho/Rac-family guanine nucleotide exchange factor</td>
</tr>
<tr>
<td>ced-10</td>
<td>GTPase orthologous to human RAC1</td>
</tr>
<tr>
<td>mig-2</td>
<td>member of the Rho family of GTP-binding proteins</td>
</tr>
<tr>
<td>rho-1</td>
<td>Rho GTPase</td>
</tr>
<tr>
<td>cht-1</td>
<td>ortholog of calreticulin</td>
</tr>
<tr>
<td>shh-1</td>
<td>Scaffold protein Shank and related SAM domain proteins</td>
</tr>
<tr>
<td>elo-1</td>
<td>C-18 polyunsaturated fatty acid (PUFA) elongase</td>
</tr>
<tr>
<td>fat-2</td>
<td>delta-12 fatty acyl desaturase</td>
</tr>
<tr>
<td>dsc-4</td>
<td>subunit of the microsomal triglyceride transfer protein</td>
</tr>
<tr>
<td>tpk-1</td>
<td>Thiamin pyrophosphokinase</td>
</tr>
<tr>
<td>clk-1</td>
<td>ubiquinone biosynthesis protein COQ7</td>
</tr>
<tr>
<td>isp-1</td>
<td>“Rieske” iron-sulfur protein</td>
</tr>
</tbody>
</table>
**Table S5.** Primers used for quantitative real-time polymerase chain reaction (PCR)

<table>
<thead>
<tr>
<th>Gene</th>
<th>Forward primer</th>
<th>Reverse primer</th>
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<tbody>
<tr>
<td>act-1</td>
<td>CTGCAGATGTGTGACGACGAGGTT</td>
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</tr>
<tr>
<td>clk-1</td>
<td>CACATACTGCTGCTTCTCTCGT</td>
<td>TGAACCAACAGATGAACCTT</td>
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<tr>
<td>ctl-1</td>
<td>CTTCCTACACGGACACGCAT</td>
<td>GCAATCTCCCTGGCTTTTCAT</td>
</tr>
<tr>
<td>ctl-2</td>
<td>CGAACAGCTTCAACTATGG</td>
<td>GTGGCTGGAATGTGGTAT</td>
</tr>
<tr>
<td>ctl-3</td>
<td>TTTCCTCTACACGGACACGC</td>
<td>GCAATCTCCCTGGCTTTTCAT</td>
</tr>
<tr>
<td>gas-1</td>
<td>CTGGTCTTCTTGGCTTGA</td>
<td>CTTGGTCTTGGCTTGA</td>
</tr>
<tr>
<td>isp-1</td>
<td>GCAGAAAGATGAATGGTCC</td>
<td>CAGAAGGCTGCTAGTGAGA</td>
</tr>
<tr>
<td>mev-1</td>
<td>GGAATTCGCTTCTTCTAGA</td>
<td>GCAATCTTCTGGCTTTGGA</td>
</tr>
<tr>
<td>sod-1</td>
<td>ACGCTCGTACGGCTTTAC</td>
<td>TCTTCTGCGCTTCTCCG</td>
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<td>sod-3</td>
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<td>sod-4</td>
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<td>sod-5</td>
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<td>nhx-2</td>
<td>GAGACAGATGATGTAAGAA</td>
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<td>TGATGTCCGTTCCCTACT</td>
<td>ATGACCTGAAAGAGTGGG</td>
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<td>pho-1</td>
<td>ACGGACATGATGTAGGAG</td>
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<td>pkc-3</td>
<td>CGTCTCCGACATCATAG</td>
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<td>CCGTCTAACATCCCTCC</td>
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<td>par-6</td>
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</tr>
<tr>
<td>Gene</td>
<td>Forward Sequence</td>
<td>Reverse Sequence</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------</td>
<td>----------------------</td>
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<td>erm-1</td>
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<td>AGGGATACACGGATACA</td>
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<td>CGGTAAGGAGAACGTTG</td>
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<tr>
<td>ifb-2</td>
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<td>TCCAAAGCAGAGTTAC</td>
</tr>
<tr>
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<td>TTGAACGGCGTAAAGAT</td>
<td>CGTGATGAACCTGTTG</td>
</tr>
<tr>
<td>ajm-1</td>
<td>GTCAATCAGTTCTGCCCG</td>
<td>ACTCGTCGGATGTTCT</td>
</tr>
<tr>
<td>egl-8</td>
<td>GCTCGATGGCTTCAAGTA</td>
<td>TGAATGCTATCCCTCTG</td>
</tr>
<tr>
<td>let-413</td>
<td>TTTCGCTCCAACAAGTTAC</td>
<td>CACCAAGAAATGCTCCT</td>
</tr>
<tr>
<td>nfm-1</td>
<td>ATTACGGAGGATCTGGTA</td>
<td>TCATCGTCGTAACCTTAT</td>
</tr>
<tr>
<td>inx-3</td>
<td>CAGTGATGCTCATTGGTG</td>
<td>GACCGTATTGCTCTTG</td>
</tr>
<tr>
<td>nhx-4</td>
<td>GAAGATTTGCTACCTGGAC</td>
<td>TCATAAGTGGGTGTTCTCT</td>
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<td>abts-4</td>
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<tr>
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<td>GCAATGCTCAGTTAA</td>
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<td>ATCGAAACTCGGAAATGG</td>
</tr>
<tr>
<td>unc-36</td>
<td>CTCCGCCACTTATGTCCTCC</td>
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<tr>
<td>unc-13</td>
<td>AGTGAGCGCGCTTTCTTAT</td>
<td>AAATCCTCCAACCTTTCA</td>
</tr>
<tr>
<td>fat-3</td>
<td>ACTCATCAGCCTGCCACA</td>
<td>TACCCAAGCCTCAGGTCC</td>
</tr>
<tr>
<td>egl-30</td>
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<td>CACGAGGACATGATGGA</td>
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<td>unc-43</td>
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</tr>
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<td>egl-2</td>
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<tr>
<td>Gene</td>
<td>Forward Sequence</td>
<td>Reverse Sequence</td>
</tr>
<tr>
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<td>-----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>sup-9</td>
<td>GAAGATGAAAGGAGGAGGAT</td>
<td>CTTTCTGTGACGTTGTCG</td>
</tr>
<tr>
<td>sup-10</td>
<td>TTACCGACAAGCAGTTTC</td>
<td>CAAGATGGCTAGGACAC</td>
</tr>
<tr>
<td>unc-93</td>
<td>ACTACTTGTGCAGTTTGA</td>
<td>AAATACTTTGGGCTCCTC</td>
</tr>
<tr>
<td>unc-25</td>
<td>CGGCTCAACTGTCTACGG</td>
<td>TGGGAAAGTGCTCCCATG</td>
</tr>
<tr>
<td>lim-6</td>
<td>GTTCTGGTGTGTTGTTGTC</td>
<td>ATAGCATTTTGATGTCGT</td>
</tr>
<tr>
<td>unc-47</td>
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<td>TTTCACAAATCCCATG</td>
</tr>
<tr>
<td>gat-1</td>
<td>AAATGTGAAGCAGGAGTGA</td>
<td>AACTCGTCAATGATAGCG</td>
</tr>
<tr>
<td>hlh-8</td>
<td>ACTCAAGGACAAAGGAAAC</td>
<td>TGAAGCAGCCAGTAAAT</td>
</tr>
<tr>
<td>exp-6</td>
<td>TGGAAAGATGGCAAGAGC</td>
<td>CTGTTGTGACGGAAAT</td>
</tr>
<tr>
<td>dsc-1</td>
<td>GTATACCGGATAGGTTT</td>
<td>GATGCTCCTGTAGCCTTG</td>
</tr>
<tr>
<td>flr-1</td>
<td>TCACCGACTTGTTGAGAAT</td>
<td>TGGTGGTTCAGAGGTTTA</td>
</tr>
<tr>
<td>flr-4</td>
<td>TCCACCAGTATCCATCG</td>
<td>CAGAACCTCAGGACAC</td>
</tr>
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