

## **Nanoparticle-Biological Interactions in a Marine Benthic Foraminifer**

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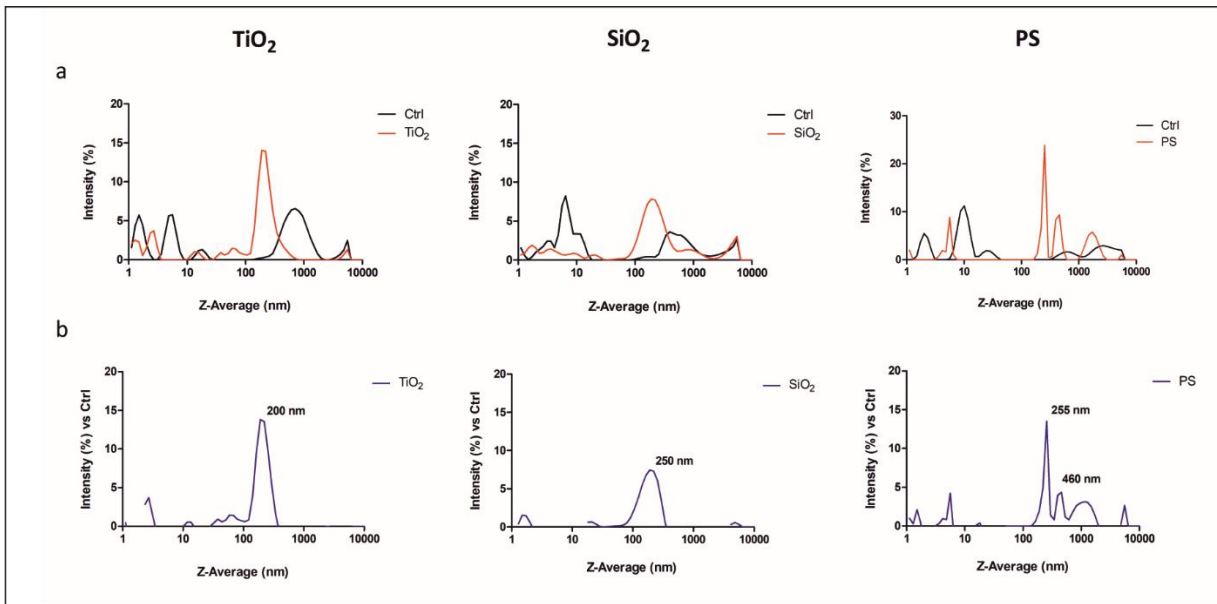
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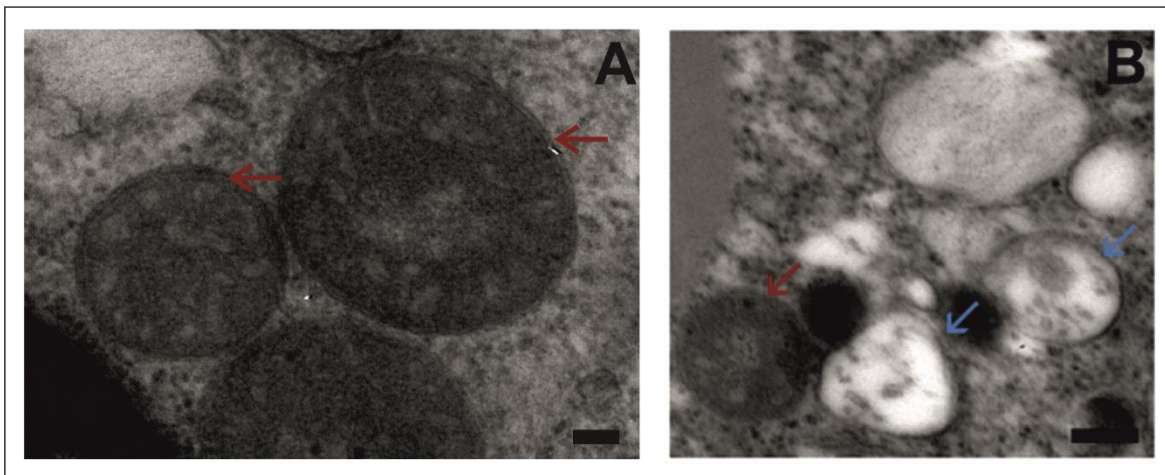
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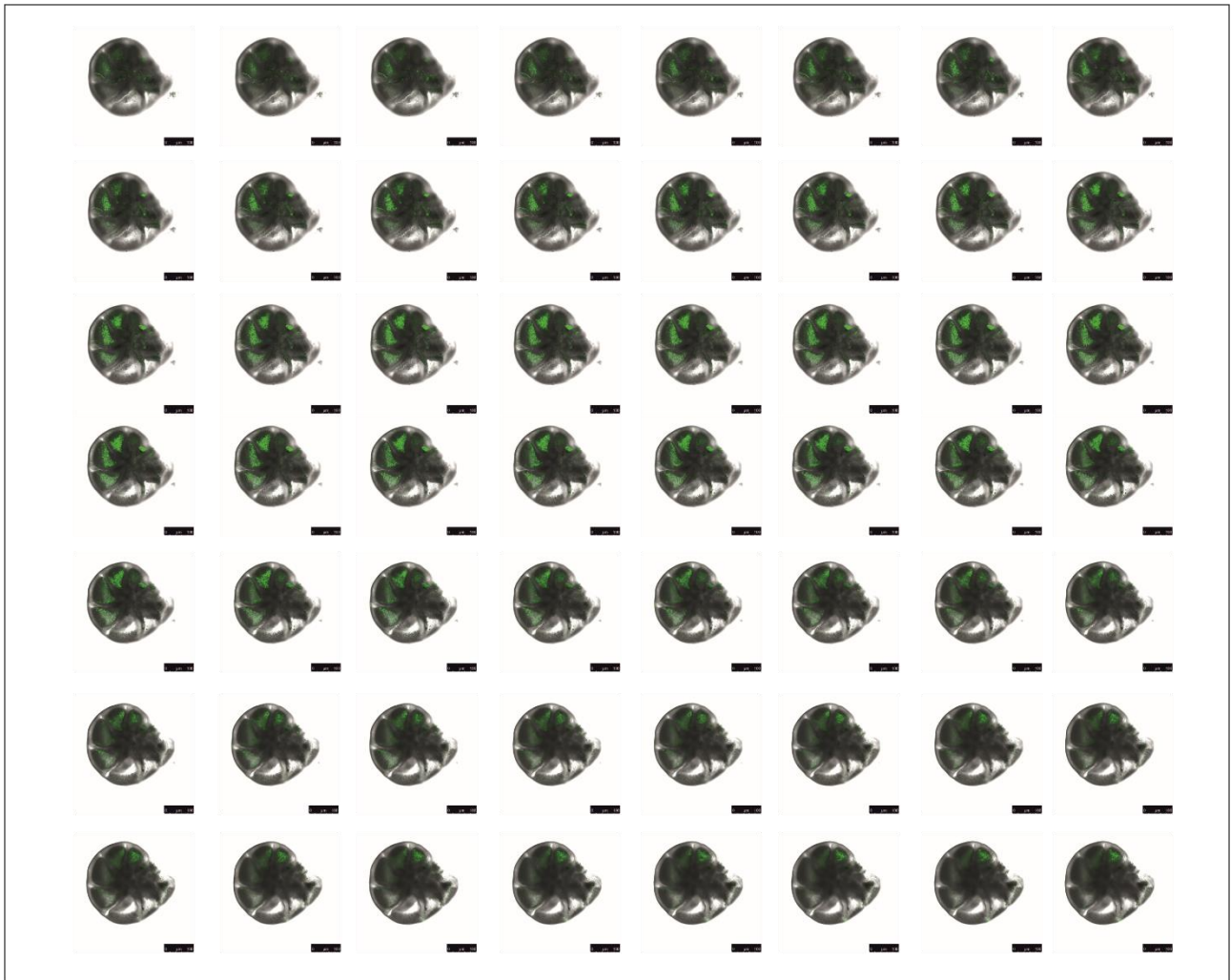
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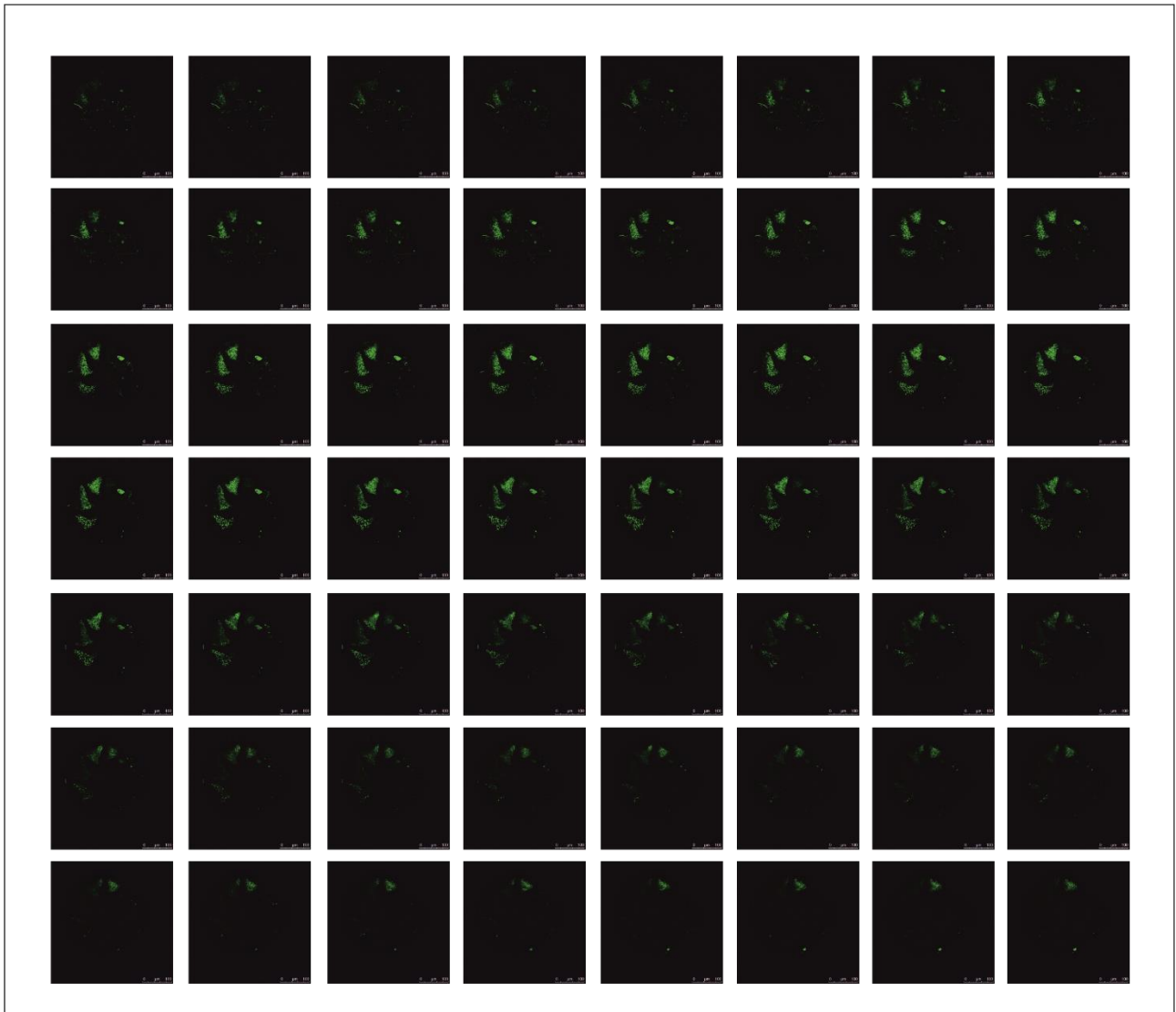
**Supplementary Figure S1.** Characterization of post-treatment suspensions by DLS. Intensity-weighted size distributions (%) of suspensions in NSW (0.45- $\mu\text{m}$  filtered, salinity 35, pH 8.05) from the control group (seawater only) and containing  $\text{TiO}_2$ ,  $\text{SiO}_2$  and PS NPs at 1 mg/L collected after 24 h of exposure of *A. parkinsoniana* (A) and normalised to control (B). Note logarithmic scale of X-axis. The graphs are the average of at least 3 independent measurements, edited using Graph Pad Prism 5.



**Supplementary Figure S2.** TEM micrographs of *Ammonia parkinsoniana*. High magnification views of foraminiferal cytoplasm of control (A) and Ti-treated (B) specimens, where intact (red arrow) and degraded (blue arrow) mitochondria were observed, respectively. Scale bars: A-B: 100 nm.



**Supplementary Figure S3.** CLSM images on the effect of TiO<sub>2</sub> exposure on ROS production of *A. parkinsoniana* labelled with CellROX®Green. CLSM micrographs of sequential single optical sections taken at 0.69 μm interval showing overlay of green fluorescence-bright field image. Scale bar: 100 μm.



**Supplementary Figure S4.** CLSM images on the effect of TiO<sub>2</sub> exposure on ROS production of *A. parkinsoniana* labelled with CellROX®Green. CLSM micrographs of sequential single optical sections taken at 0.69 μm interval showing only green fluorescence. Scale bar: 100 μm.