

1 Supplementary material

2 Bioavailability, toxicity, and bioaccumulation of quantum dot nanoparticles to the amphipod

3 *Leptocheirus plumulosus*

4 Brian P. Jackson^{1*}, Deenie Bugge², James F. Ranville³, Celia Y. Chen².

5 ¹Trace Element Analysis Core, Department of Earth Sciences, Dartmouth College, Hanover, NH 03755

6 ²Department of Biology, Dartmouth College, Hanover, NH 03755.

7 ³Department of Chemistry and Geochemistry, Colorado School of Mines, Golden, CO 80401

8

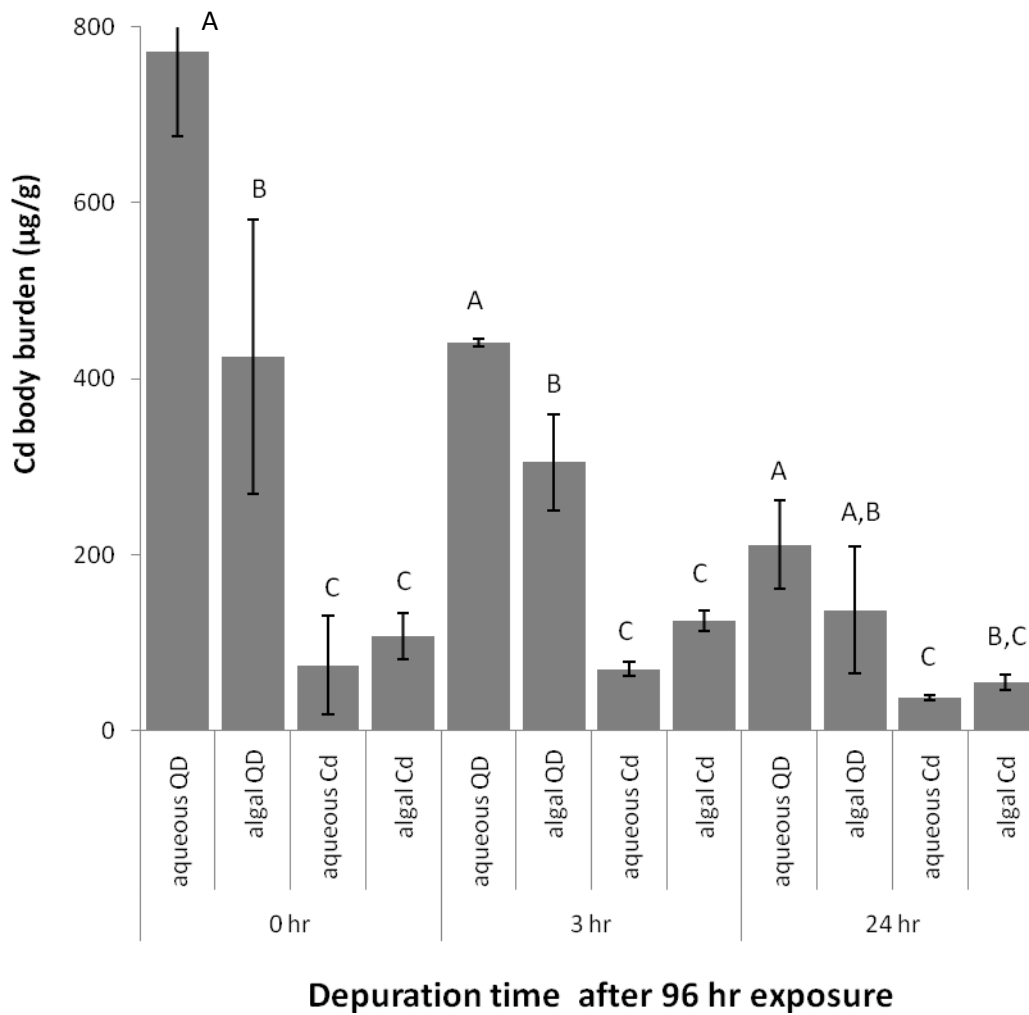
9 BPJ@Dartmouth.edu

10 Tel: 603-646-1272

11 Fax:603-646-3922

12

13 3 pages (including this cover sheet) and two figures.

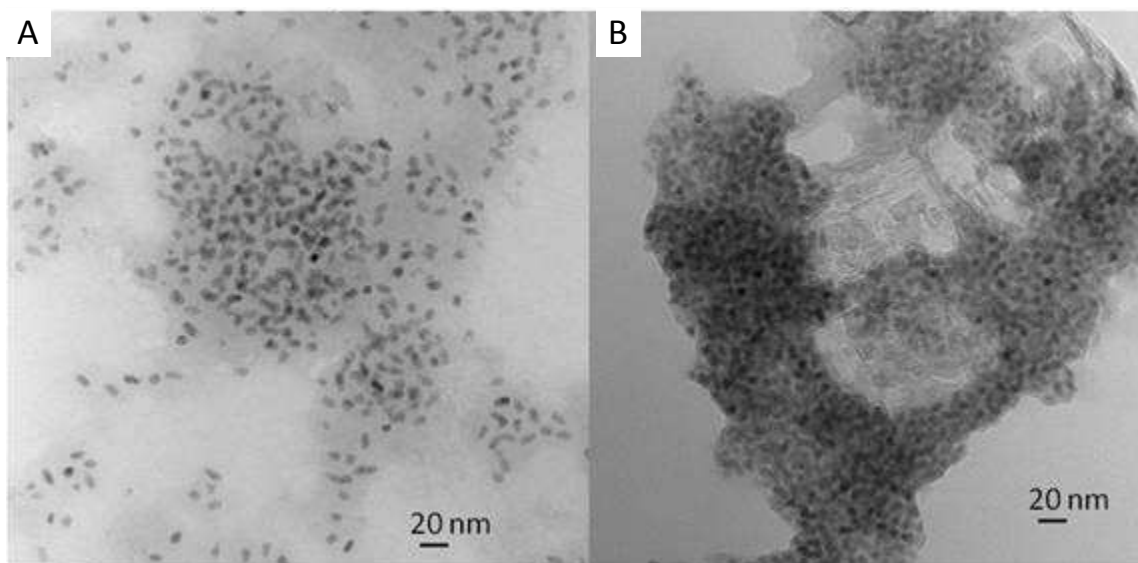


15

16

17

18 Supplemental Figure 1: Cd concentrations in *L. plumulosus* ($\mu\text{g g}^{-1}$ DW) exposed to Cd in QDs or as CdCl_2
 19 in food or water after 96 hr exposure duration and 24 hour depuration. Treatments include: aqueous-
 20 QD (no algae), algal-QD (algae exposed to QD), aqueous-Cd (CdCl_2 , no QD, no algae), algal-Cd (algae
 21 exposed to CdCl_2). Within any of the three time points, means designated by the same letter are not
 22 significantly different.



23

24

25 Supplemental Figure 2. TEM images of QDs in aqueous (A) and algal (B) suspensions.

26