**Supplementary Table S2.** Physico-chemical characterization of nano-TiO2 (Sigma-Aldrich, product n. 637254-50G) in Milli Q water (mQW) and rock pool water (0.20 μm filtered, pH 8.22, 4°C) by Dynamic Light Scattering analysis. Z-average (nm) and polydispersity index (PDI) at different time-points (0, 3, 6, 12 h). Data are referred to an n-TiO2 concentration of 200 μg/mL and reported as mean ± SD of 3 independent measurements.

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| --- | --- | --- | --- |
| **Medium** | **Time (h)** | **Z-Average (nm)** | **PDI** |
| **mQW** | 0 | 1451 ± 84 | 0.167 ± 0.090 |
| 3 | 1355 ± 14 | 0.214 ± 0.110 |
| 6 | 1048 ± 24 | 0.264 ± 0.035 |
| 12 | 1581 ± 138 | > 0.400 |
| **Rock pool W** | 0 | 1562 ± 148 | 0.282 ± 0.075 |
| 3 | 1883 ± 79 | 0.329 ± 0.109 |
| 6 | 2000 ± 120 | > 0.400 |
| 12 | 4024 ± 1042 | 0.266 ± 0.084 |