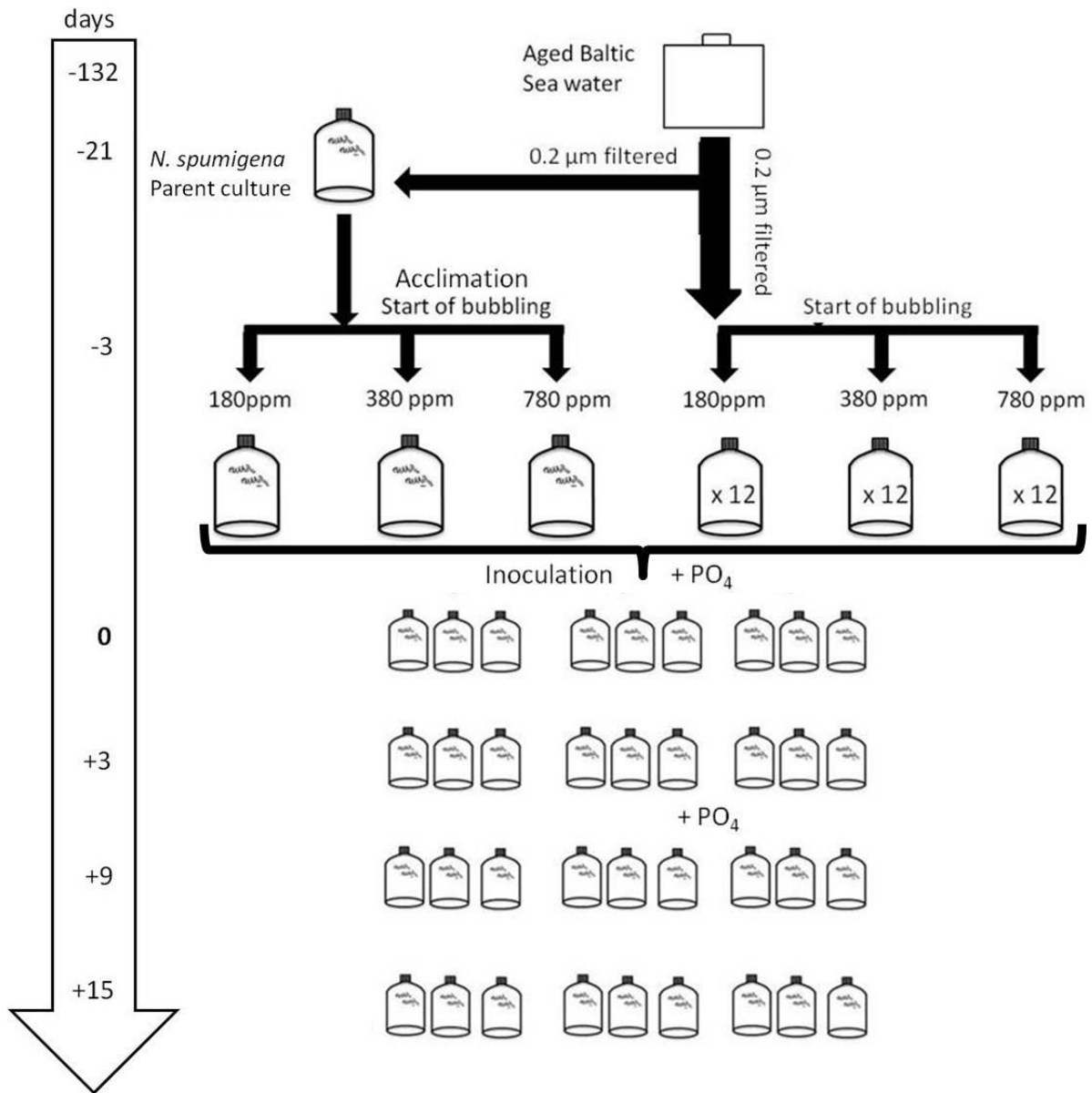


1 Supplement



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3 Appendix A: Schematic overview of the experimental set up and time flow of the single steps
 4 taken from preparation (-132 days) to the end of the experiment (+15 days). See Wannicke
 5 et al. (2012) for detailed information.

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12 Appendix B: The DOP components at the four sampling times. Values are means and standard deviations of three replicates.

| date (day) | CO ₂ treatment | Uncharacterized DOP [nM] | dRNA-P [nM] | dPL-P [nM] | dATP-P [nM] | dDNA-P [nM] |
|-----------------------|------------------------------|--------------------------------|----------------|---------------|----------------|----------------|
| 3/29/2010 (day 0) | low | 219 ± 55 | 108 ± 40 | 6.7 ± 5.7 | 2.9 ± 1.0 | 0.28 ± 0.02 |
| | medium | 211 ± 49 | 106 ± 41 | 10.5 ± 4.3 | 3.1 ± 0.2 | 0.27 ± 0.03 |
| | high | 216 ± 72 | 145 ± 18 | 15.2 ± 9.2 | 2.2 ± 0.6 | 0.31 ± 0.05 |
| 4/1/2010 (day 3) | low | 212 ± 225 | 154 ± 32 | 17.2 ± 12.5 | 2.2 ± 0.5 | 0.20 ± 0.03 |
| | medium | 156 ± 172 | 162 ± 19 | 28.3 ± 3.0 | 2.3 ± 0.3 | 0.17 ± 0.05 |
| | high | 133 ± 68 | 131 ± 23 | 16.1 ± 4.4 | 2.5 ± 0.6 | 0.20 ± 0.04 |
| 4/7/2010 (day 9) | low | 105 ± 103 | 147 ± 30 | 12.5 ± 13.5 | 8.5 ± 1.0 | 0.14 ± 0.01 |
| | medium | 61 ± 64 | 156 ± 9 | 21.6 ± 18.4 | 8.3 ± 0.5 | 0.14 ± 0.01 |
| | high | 45 ± 54 | 166 ± 22 | 16.3 ± 13.7 | 7.8 ± 0.9 | 0.16 ± 0.01 |
| 4/13/2010 (day 15) | low | 73 ± 47 | 150 ± 27 | 10.1 ± 13.0 | 5.3 ± 0.8 | 0.14 ± 0.02 |
| | medium | 35 ± 8 | 134 ± 22 | 14.5 ± 8.8 | 5.5 ± 0.6 | 0.14 ± 0.00 |
| | high | 24 ± 90 | 158 ± 54 | 19.1 ± 6.4 | 4.8 ± 1.3 | 0.14 ± 0.01 |