# Supplementary Materials: Tentacle Morphological Variation Coincides with Differential Expression of Toxins in Sea Anemones

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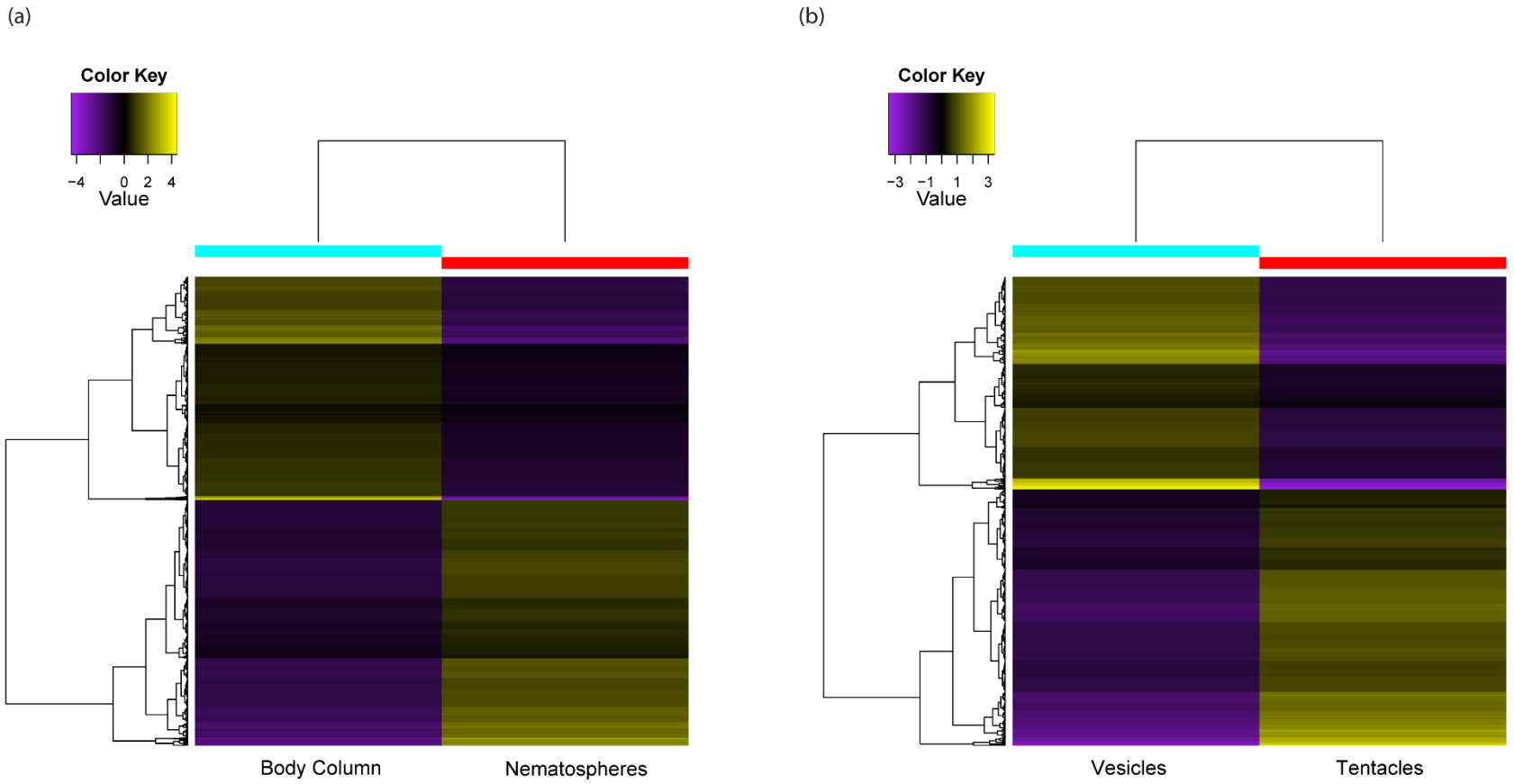



**Figure S1.** Heatmap of differentially expressed genes (centered FPKM values) for *C. adhaesivum* and *P. semoni*: (**a**) Heatmap of differentially expressed genes (centered FPKM values) for body volumn and nematospheres in *C. adhaesivum*; (**b**) Heatmap of differentially expressed genes (centered FPKM values) for vesicles and tentacles in *P. semoni*.

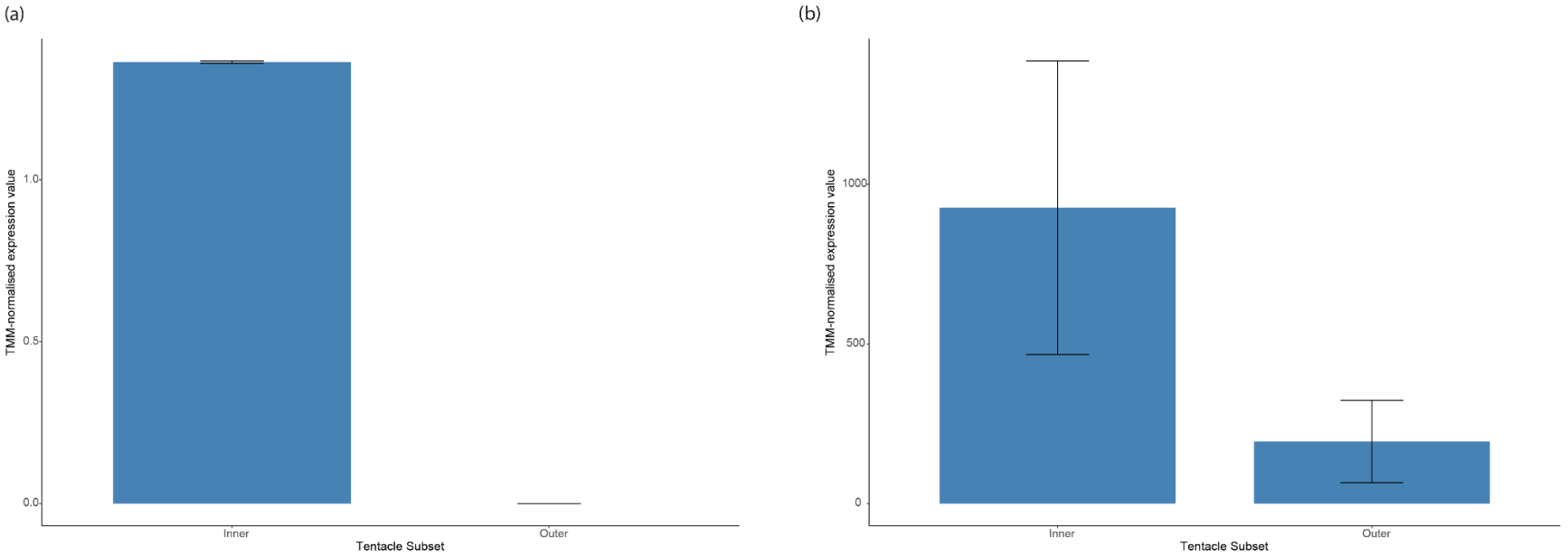



**Figure S2.** Patterns of differentially expressed toxins for *D.* cf. *armata* and *M. doreensis.* (**a**) Mean Trimmed Mean of M-values (TMM) expression values for transcript with homology to nematocyst expressed protein 6 for inner and outer tentacles in *D.* cf. *armata*, with error bars showing standard deviation; (**b**) Mean TMM-expression values for transcript with homology to δ-alicitoxin-Amc1a for inner and outer tentacles in *M. doreensis*, with error bars showing standard deviation.

**Table S1.** Sequence read archive and BioSample accession numbers. All samples for *C. adhaesivum*, *H. hemprichii*, *M. doreensis* and *P. semoni* were submitted under one BioProject (accession number PRJNA715506).

| Species | Tissue | BioSample | SRA accession |
|---|---|---|---|
| *C. adhaevisum* | Body column | SAMN18353001 | SRR14115233 |
| *C. adhaevisum* | Nematospheres | SAMN18353002 | SRR14115232 |
| *H. hemprichii* | Body column | SAMN18353003 | SRR14115229 |
| *H. hemprichii* | Endocoelic tentacles | SAMN18353004 | SRR14115228 |
| *H. hemprichii* | Exocoelic tentacles | SAMN18353005 | SRR14115227 |
| *H. hemprichii* | Nematospheres | SAMN18353006 | SRR14115226 |
| *M. doreensis* | Inner tentacle, replicate 1 | SAMN18353007 | SRR14115225 |
| *M. doreensis* | Inner tentacle, replicate 2 | SAMN18353008 | SRR14115224 |
| *M. doreensis* | Outer tentacle, replicate 1 | SAMN18353009 | SRR14115223 |
| *M. doreensis* | Outer tentacle, replicate 2 | SAMN18353010 | SRR14115222 |
| *P. semoni* | Vesicles | SAMN18353011 | SRR14115231 |
| *P. semoni* | Tentacles | SAMN18353012 | SRR14115230 |