

Table SI Number of cells belonging to each of six cell types in *Trichoplax*

| Cell Type | Distinctive feature | Cells/10 ⁴ μm ² * | % | Total # |
|--------------------|------------------------|---|------|--------------|
| Ventral epithelial | Ciliary pit | 1845 ± 257 (3) | 72 | 36226 |
| Lipophil | Fluorescent inclusions | 285 ± 52 (5) | 11 | 5596 |
| Dorsal epithelial | Actin stain | 236 ± 24 (5) | 9 | 4634 |
| Fiber | TaDCH/P2X stain | 113 ± 9 (6) | 4.4 | 2219 |
| Gland | Secretory proteins | 70 ± 10 (5) | 2.7 | 1374 |
| Crystal | Crystal | 3.8 ± 0.7 (5) | 0.15 | 75 |
| | Total number of cells | | | 50124 |

* In areal projection of the ventral surface; Mean ± SEM (number of individuals)

Cell numbers extrapolated from densities to *Trichoplax* 0.5 mm in diameter