**Table S3. Volumetric measurements of *O. carmela* choanocytes and components**

|  |  |
| --- | --- |
|  | **Five sponge choanocytes** |
| **Organelle** | **Cell 1** | **Cell 2** | **Cell 3** | **Cell 4** | **Cell 5** | **Mean +/- SD** |
| Cell Body | 108.56 (100) | 75.35 (100) | 107.37 (100) | 83.95 (100) | 100.29 (100) | 95.1 ± 14.8(100 ± 0) |
| Nucleus | 10.47(9.07) | 7.77(9.82) | 10.02(8.91) | 8.49(9.48) | 9.54(8.98) | 9.26 ± 1.11(9.25 ± 0.39) |
| Nucleolus | 0.62(0.57) | 0.37(0.49) | 0.45(0.42) | 0.53(0.63) | 0.55(0.55) | 0.51 ± 0.10(0.53 ± 0.08) |
| Mitochondria | 2.56(2.36) | 1.8(2.39) | 3.23(3.01) | 1.89(2.25) | 2.49(2.48) | 2.39 ± 0.58(2.50 ± 0.30) |
| Endoplasmic Reticulum | 1.43(1.32) | 1.49(1.98) | 1.63(1.52) | 1.03(1. 32) | 1.03(1.03) | 1.32 ± 0.28(1.43 ± 0.35) |
| Food Vacuoles | 21.95(20.22) | 15.33(20.35) | 23.13(21.54) | 16.33(19.45) | 21.98(21.92) | 19.74 ± 3.62(20.70 ± 1.01) |
| Glycogen Storage | 0(0) | 0(0) | 0(0) | 0(0) | 0(0) | 0(0) |
| Flagellar Basal Body | 0.03(0.03) | 0.02(0.03) | 0.03(0.03) | 0.03(0.04) | 0.02(0.02) | 0.03 ± 0.01(0.03 ± 0.02) |
| Non-Flagellar Basal Body | 0.03(0.03) | 0.03(0.04) | 0.02(0.02) | 0.03(0.04) | 0.02(0.02) | 0.03 ± 0.01 (0.03 ± 0.01) |
| Golgi Apparatus | 0.12(0.11) | 0.22(0.29) | 0.24(0.22) | 0.15(0.18) | 0.14(0.14) | 0.17 ± 0.05(0.19 ± 0.07) |
| Filopodia | 0(0) | 0(0) | 0(0) | 0(0) | 0(0) | 0(0) |
| Cytosol | 71.97(66.29) | 48.69(64.62) | 69.07(64.32) | 56(66.70) | 65.07(64.88) | 62.16 ± 9.64(65.36 ± 1.06) |

Volumes were measured in μm3.

Values between parentheses are percentages of cell volume.