|  |  |  |
| --- | --- | --- |
| Species | Diameter of MTOC | Volume of PCM |
| **Excavates** |  |  |
| *Giardia intestinalis* [1] | 0.5 µm | 0.04 µm3 |
| *Naegleria gruberi* [2] | acentriolar mitotic MTOC inside nucleus, either with polar cap (0.7 µm) or MTs end at nuclear membrane |
| **Plants** |  |  |
| *Chlamydomonas reinhardtii* [3-5] | acentriolar mitotic MTOC: 0.5 µm reported by Johnson, however later studies mention basal bodies at the spindle poles |
| *Hydrodictyon reticulatum* [6] | 0.6 µm | 0.09 µm3 |
| **Chromalveolata** |  |  |
| *Surirella ovalis* [7] | acentriolar mitotic MTOC: 0.5 µm |
| **Fungi** |  |  |
| Chytrids |  |  |
| *Monoblepharella* [8] | 0.5 µm | 0.04 µm3 |
| *Rhizophydium spherotheca* [9] | 0.25 µm | (almost none) |
| **Animals** |  |  |
| Invertebrates |  |  |
| *Caenorhabditis elegans* [10] | 4 µm (oocyte) | 33 µm3 |
| *Drosophila melanogaster* [11] | 0.8 µm (embryo) | 0.2 µm3 |
| *Spisula* [12] | 1 µm (oocyte) | 0.5 µm3 |
| Vertebrates |  |  |
| *Homo sapiens* [13] | 0.9 µm (prostate cells)  | 0.4 µm3 |
| *Potorous tridactylus* [14] | 1 µm (PtK1 cells) | 0.5 µm3 |
| *Xenopus laevis* [15] | 0.7 µm (A6 cells, interphase)1 µm (A6 cells, metaphase) | 0.2 µm30.5 µm3 |

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