TABLE II

*Estimates of Three-Dimensional Cellular and Mitochondrial Parameters**

(1) Time after mitosis	(2) Cell vol‡	(3) Cyt. vol‡ / Cell vol	(4) Cyt. vol ¶	(5) μm^2 Outer membr.** surface area / μm^3 Cyt. vol	(6) Tot. mit. vol‡‡ / Cyt. vol	(7) no. Mit.§§ / μm^3 Cyt. vol	(8) Mit. vol¶¶	(9) no. Mit.*** / Cell
h	μm^3	%	μm^3	μm^{-1}	%		μm^3	
0	2,751 ± 211§	71.7‖	1,973 ± 151	1.19 ± 0.04	11.0 ± 0.4	0.43 ± 0.02‖‖	0.27 ± 0.01	882 ± 110
3	1,227 ± 77	72.6	891 ± 56	1.13 ± 0.06	10.6 ± 0.6	0.40 ± 0.03	0.29 ± 0.02	383 ± 48
7	1,403 ± 137	68.0	954 ± 93	0.99 ± 0.08	9.4 ± 0.7	0.35 ± 0.03	0.28 ± 0.01	389 ± 73
11	1,430 ± 121	72.1	1,032 ± 87	1.14 ± 0.08	10.8 ± 0.7	0.41 ± 0.03	0.28 ± 0.01	479 ± 76
16	1,694 ± 123	71.1	1,204 ± 87	1.16 ± 0.10	10.9 ± 1.0	0.40 ± 0.03	0.28 ± 0.01	537 ± 72
19	2,093 ± 96	74.9	1,567 ± 72	1.12 ± 0.06	10.6 ± 0.5	0.37 ± 0.03	0.31 ± 0.02	601 ± 62

* Values shown are means ± standard errors, computed from the values for individual cell profiles.

‡ Computed according to the method described in the Appendix.

§ Computed using the mean value from the other time-points of the cyt. area/cell area ratio (see Table I) and of the parameter q (Eq. 4, Appendix).

‖ Computed using the mean value from the other time-points of the parameter q (Eq. 4, Appendix).

¶ Computed for each time-point by multiplying the cell vol (column 2) by the cyt. vol/cell vol ratio (column 3).

** Computed by multiplying the values in column 6 of Table I by $4/\pi$ (47).

‡‡ Taken from column 5 of Table I.

§§ Computed using the estimator described in the Appendix (Eq. 11). A value of 3.349 was used for the shape constant (J). This is the average of the upper and lower limits for the constant, given respectively by Equations 15 and 16 (Appendix), assuming as a model shape a general ellipsoid of axis ratios 5:1.38:1 (see Results). The means and standard errors were both computed by weighting the value of the parameter for a given cell profile according to its cytoplasmic area.

‖‖ Computed using the mean value from the other time-points of the cyt. area/cell area ratio (see Table I).

¶¶ Computed for each cell by dividing the mit. vol/cyt. vol ratio by the no. mit./cyt. vol.

*** Computed for each cell by multiplying the no. mit./cyt. vol by the cyt. vol.