

**Table 2.** Total organelle surface area ( $\mu\text{m}^2$ ) and organelle volume ( $\mu\text{m}^3$ ) per cell and corresponding number of associations (distance between two organelles less than 30 nm) per  $10 \mu\text{m}^2$  organelle surface area

	ER	M	N	V	LP	PM
<i>Organelle data for chemically/cryofixed cells</i>						
$\mu\text{m}^2$	93/28	29/32	19/20	19/35	4/9	43/102
$\mu\text{m}^3$	0.7/0.4	2.4/1.7	2.6/5.3	1.9/14.1	0.4/0.4	0/0
<i>No. of associations per <math>10 \mu\text{m}^2</math> organelle surface area</i>						
ER	1.9/0	2.9/1.2	0.1/0	0.1/0.4	3.8/0.4	28.5/0.4
M	2.9/1.2	1.4/2.2	0/0.6	0/0.2	0/1.4	0/0.03
N	0.1/0	0/0.6	0/0	6.1/0.4	46.1/1.1	0/0
V	0.1/0.4	0/0.2	6.1/0.4	7.9/0	42.1/0.3	0/0
LP	3.8/0.4	0/1.4	46.1/1.1	42.1/0.3	5.0/3.3	0/0
PM	28.5/0.4	0/0.03	0/0	0/0	0/0	0/0

Example of a calculation: 28.5 associations were calculated per  $10 \mu\text{m}^2$  PM with  $10 \mu\text{m}^2$  ER in a chemically fixed cell. Data presented for chemically/cryofixed cells.

ER, endoplasmic reticulum; LP, lipid particle; M, mitochondrion; N, nucleus; PM, plasma membrane; V, vacuole.