

Supplementary Materials

Table S1 Suggested values for parameters in superresolution image reconstruction

Parameter	Value	Parameter	Value	Parameter	Value
Wavelet threshold	3	Conversion factor	10.5	Max photon number	50000
Wavelet coefficient	W2	Sigma	1.2	Max background photon	30
MSVST flag	0	Pixel size	152	Mean background photon	0
Gaussian mu	0.5	Fitting size	7	Fitting min sigma	0.75
Gaussian sigma	0.5	Fitting flag	1	Fitting max sigma	2.5
Poisson alpha	10	Total photon flag	1	Mean sigma flag	0
Weighted centroid	5	Prompt dialog	1	Max lifetime length	10
ROI select	No ROI	Display flag	0	Gap	1
Trash dim	0	Drift correction	1	Min search radius	2
Neighborhood	8	Amplification	8	Max search radius	5
Gap	1	Max position error	30		
EMCCD gain	300	Min photon number	300		

Movie S1 Tomogram of an ER–mitochondrial membrane contact site localised with superresolution fluorescence. This video corresponds to Fig. 3. The ER membrane in contact with the mitochondrion is rendered cyan. The membranes (outer membrane, inner membrane and cristae) of the mitochondrion in contact with the ER is rendered orange. The density between the ER membrane and the outer mitochondrial membrane is rendered yellow. Scale bar: 100 nm