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Supporting information for article:

In cellulo serial crystallography of alcohol oxidase crystals inside yeast cells

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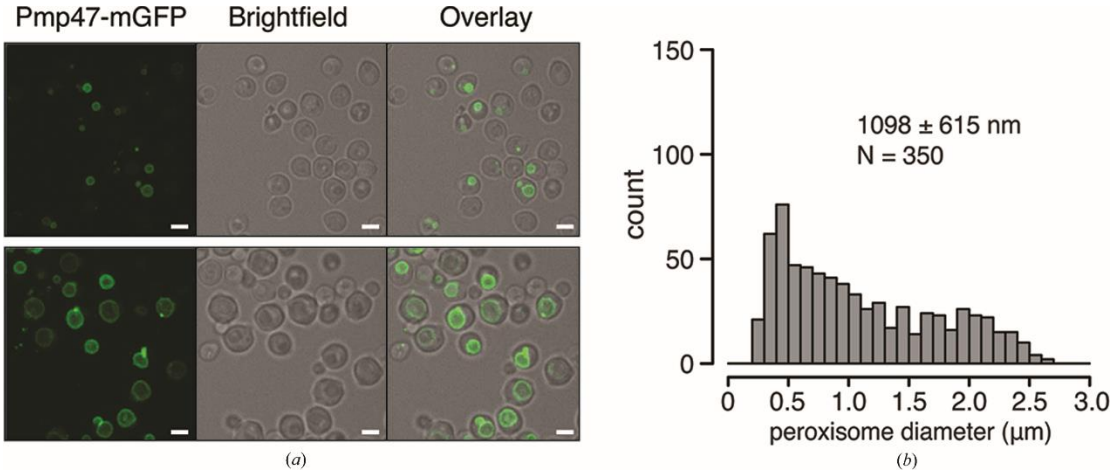

Figure S1 (a) Brightfield and fluorescence images for total (top) and enriched (bottom) fractions of Δ*PEX11* cell suspensions. Scale bars represent 2 µm. (b) Size distribution of Pmp47-mGFP labeled Δ*PEX11* peroxisomes from enriched fractions of Δ*PEX11* cells show an increase in the fraction of very large peroxisomes (cf. Figure 1d–e).

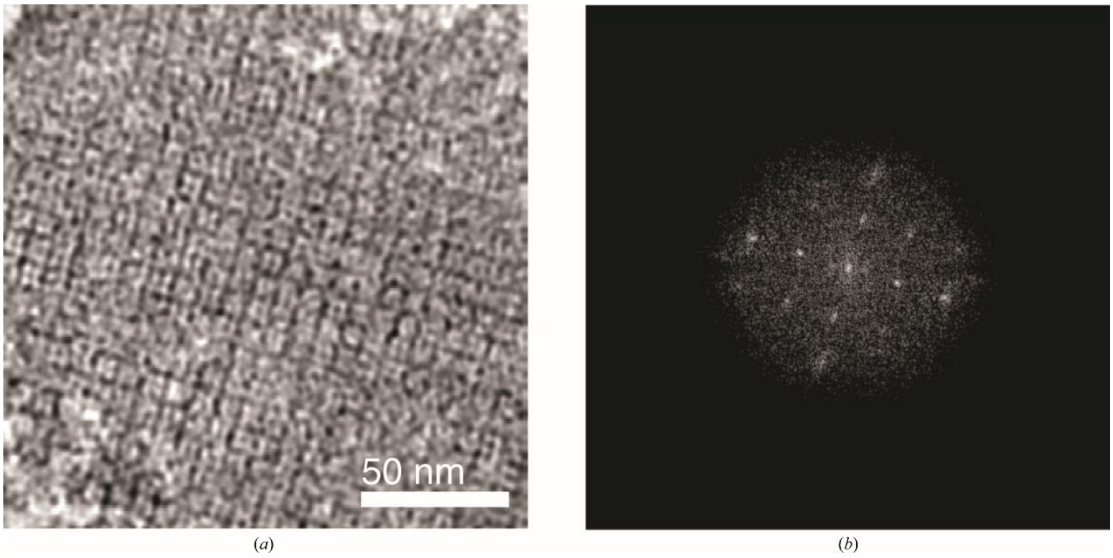

Figure S2 (a) Representative digital electron tomogram slice of freeze-substituted AO crystallites in *Hp* peroxisomes with tetragonal arrangement of AO octamers viewed along [001]. (b) Fourier amplitude spectrum of (a) reflecting the discrete cubic lattice of AO in *Hp* peroxisomes.

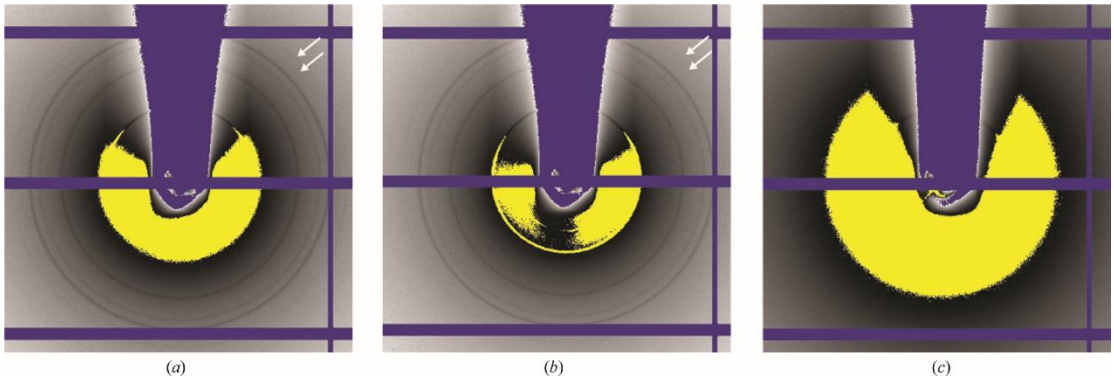

Figure S3 X-ray powder diffraction patterns of (a) *wt*, (b) Δ*PEX11* and (c) Δ*PEX5* cells at higher threshold level than shown in Figure 2 (b–d) reveal additional, higher resolution Debye-Scherrer rings for *wt* and Δ*PEX11* cells (arrows).