**ESM Figure 1: Hepatocytes dual staining with fluorescence dyes.** a) Representative images of confocal microscopy illustrating in ER and mitochondrial Ca^{2+} in hepatocytes using Fluo-5 (green curve) and Rhod-2 (red curve). b) The curves represent the fluorescence intensity of both probes along the scan line indicated by the arrow on the respective image. Note that Rhod-2 fluorescence does not overlap with Fluo-5N staining allowing specific fluorescence acquisition for each compartment.