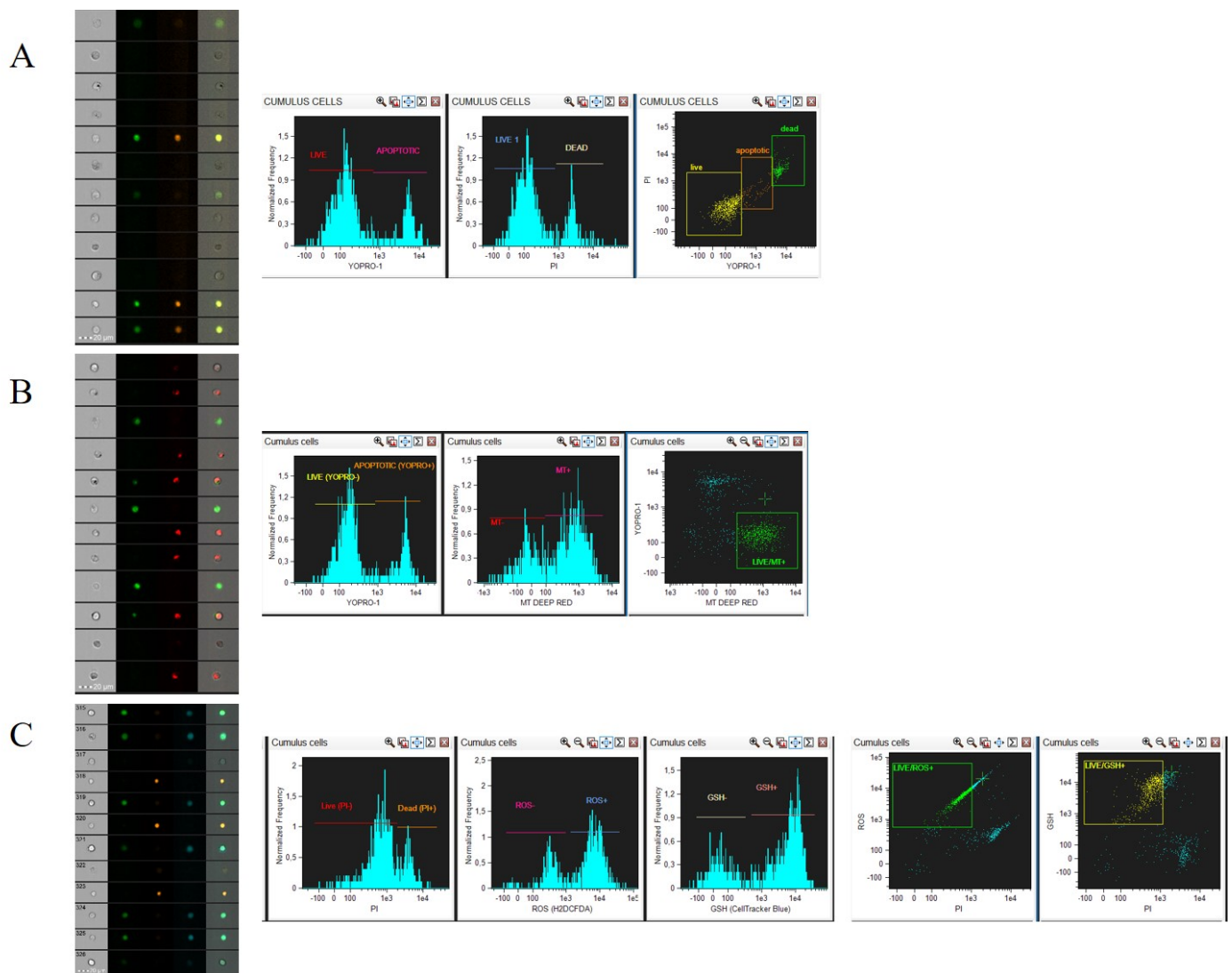


## Supplementary material

**Table S1.** Details of primers used for qPCR.

Gene	Gene Function	Primer Sequence (5'–3')	Product Size (bp)	Accession No.
<i>PPIA</i>	Reference gene	F- TCAACCCCAACCGTGTCTTC R- GTCACCACCCTGGCACATAA	194	NM_001308578.1
<i>BMP15</i>	Oocyte maturation	F-CTACGACTCCGCTTCGTGTGT R-AGTGCCATGCCACCAGAAC	69	NM_001031752.1
<i>GDF9</i>		F-GAAGTGGGACAACCTGGATTGTG R-CCCTGGGACAGTCCCCTTTA	71	NM_174681.2
<i>Cx43</i>	GAP junctions	F-TGCCTTTCGTTGTAACTCA R-AGAACACATGAGCCAGGTACA	143	NM_174068.2
<i>NRF1</i>		F-CTGTCGCCCAAGTGAATTATTCG R-TGTAACGTGGCCAGTTTTGT	67	NM_001098002.2
<i>POLG2</i>	Transcription factor	F-CTTCTGGGAACTACGGGAGAAC R-GTAGCCTCTTGTTTACCAGATCCA	84	NM_001075191.1
<i>TFAM</i>		F-CACTGGGAAAGTCAGGAGCG R-ACATACGCAAACTAAAGGGGG	76	XM_027962472.1

F, forward primer; R, reverse primer.



**Figure S1.** Representative images of cumulus cells populations regarding (A) viability, apoptosis and mortality, (B) active mitochondria, and (C) intracellular levels of ROS and GSH using flow cytometry.