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SUPPLEMENTARY DATA

Supplementary Table SVII Biological processes and cellular components for the transcripts enriched in AMA GV and MII oocytes, exclusively in the GV/MII transition.

AMA MII only						
Category	**Term**	**Count**	**%**	***P*-value**	**Benjamini**	**FDR**
BP	Positive regulation of transcription, DNA-templated	36	0.0	3.0E−5	6.9E−2	5.3E−2
BP	Positive regulation of transcription from RNA polymerase II promoter	56	0.1	4.8E−5	5.5E−2	8.5E−2
Category	**Term**	**Count**	**%**	***P*-value**	**Benjamini**	**FDR**
CC	Nucleus	234	0.2	2.6E−9	1.2E−6	3.7E−6
CC	Nucleoplasm	138	0.1	1.2E−8	2.7E−6	1.7E−5
CC	Cytoplasm	218	0.2	2.9E−7	4.6E−5	4.1E−4
CC	Nuclear speck	20	0.0	1.7E−5	2.0E−3	2.5E−2
AMA GV only						
Category	**Term**	**Count**	**%**	***P*-value**	**Benjamini**	**FDR**
BP	Mitochondrial electron transport, NADH to ubiquinone	17	0.0	2.8E−8	8.9E−5	5.1E−5
BP	Mitochondrial respiratory chain complex I assembly	18	0.0	2.4E−7	3.8E−4	4.4E−4
BP	Mitochondrial translational elongation	20	0.0	1.2E−6	1.2E−3	2.1E−3
BP	Mitochondrial translational termination	18	0.0	2.4E−5	1.9E−2	4.3E−2
Category	**Term**	**Count**	**%**	***P*-value**	**Benjamini**	**FDR**
CC	Mitochondrion	148	0.1	2.6E−12	1.6E−9	3.9E−9
CC	Mitochondrial inner membrane	69	0.0	3.0E−12	9.0E−10	4.4E−9
CC	Mitochondrial respiratory chain complex I	16	0.0	1.6E−7	3.1E−5	2.3E−4
CC	Cytosol	260	0.1	2.5E−5	3.9E−3	3.8E−2
CC	Extracellular exosome	219	0.1	2.0E−4	2.4E−2	3.0E−1

AMA, advanced maternal age; BP, biological process; CC, cellular component; GV, germinal vesicle; MII, metaphase II.