Antonio Capalbo

List of Publications by Year
in descending order

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92 papers	5,201 citations	101496 36 h-index	91828 69 g-index
95 all docs	95 docs citations	95 times ranked	3914 citing authors

#	Article	IF	Citations
1	Embryo development of fresh 'versus' vitrified metaphase II oocytes after ICSI: a prospective randomized sibling-oocyte study. Human Reproduction, 2010, 25, 66-73.	0.4	442
2	Correlation between standard blastocyst morphology, euploidy and implantation: an observational study in two centers involving 956 screened blastocysts. Human Reproduction, 2014, 29, 1173-1181.	0.4	419
3	Chromosome errors in human eggs shape natural fertility over reproductive life span. Science, 2019, 365, 1466-1469.	6.0	239
4	Genome-wide maps of recombination and chromosome segregation in human oocytes and embryos show selection for maternal recombination rates. Nature Genetics, 2015, 47, 727-735.	9.4	229
5	Consistent and predictable delivery rates after oocyte vitrification: an observational longitudinal cohort multicentric study. Human Reproduction, 2012, 27, 1606-1612.	0.4	218
6	Follicular versus luteal phase ovarian stimulation during the same menstrual cycle (DuoStim) in a reduced ovarian reserve population results in a similar euploid blastocyst formation rate: new insight in ovarian reserve exploitation. Fertility and Sterility, 2016, 105, 1488-1495.e1.	0.5	187
7	Segregation of mitochondrial DNA heteroplasmy through a developmental genetic bottleneck in human embryos. Nature Cell Biology, 2018, 20, 144-151.	4.6	182
8	Sequential comprehensive chromosome analysis on polar bodies, blastomeres and trophoblast: insights into female meiotic errors and chromosomal segregation in the preimplantation window of embryo development. Human Reproduction, 2013, 28, 509-518.	0.4	179
9	FISH reanalysis of inner cell mass and trophectoderm samples of previously array-CGH screened blastocysts shows high accuracy of diagnosis and no major diagnostic impact of mosaicism at the blastocyst stage. Human Reproduction, 2013, 28, 2298-2307.	0.4	161
10	Human female meiosis revised: new insights into the mechanisms of chromosome segregation and aneuploidies from advanced genomics and time-lapse imaging. Human Reproduction Update, 2017, 23, 706-722.	5.2	159
11	Cumulative ongoing pregnancy rate achieved with oocyte vitrification and cleavage stage transfer without embryo selection in a standard infertility program. Human Reproduction, 2010, 25, 1199-1205.	0.4	139
12	The Impact of Biopsy on Human Embryo Developmental Potential during Preimplantation Genetic Diagnosis. BioMed Research International, 2016, 2016, 1-10.	0.9	137
13	MicroRNAs in spent blastocyst culture medium are derived fromÂtrophectoderm cells and canÂbeÂexplored for human embryoÂreproductive competence assessment. Fertility and Sterility, 2016, 105, 225-235.e3.	0.5	129
14	Effect of the male factor on the clinical outcome of intracytoplasmic sperm injection combined with preimplantation aneuploidy testing: observational longitudinal cohort study of 1,219 consecutive cycles. Fertility and Sterility, 2017, 108, 961-972.e3.	0.5	125
15	The why, the how and the when of PGS 2.0: current practices and expert opinions of fertility specialists, molecular biologists, and embryologists. Molecular Human Reproduction, 2016, 22, 845-857.	1.3	116
16	No evidence of association between blastocyst aneuploidy and morphokinetic assessment in a selected population of poor-prognosis patients: a longitudinal cohort study. Reproductive BioMedicine Online, 2015, 30, 57-66.	1.1	115
17	Mosaic human preimplantation embryos and their developmental potential in a prospective, non-selection clinical trial. American Journal of Human Genetics, 2021, 108, 2238-2247.	2.6	112
18	Reduction of multiple pregnancies in the advanced maternal age population after implementation of an elective single embryo transfer policy coupled with enhanced embryo selection: pre- and post-intervention study. Human Reproduction, 2015, 30, 2097-2106.	0.4	105

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19	Comparison of array comparative genomic hybridization and quantitative real-time PCR-based aneuploidy screening of blastocyst biopsies. European Journal of Human Genetics, 2015, 23, 901-906.	1.4	104
20	Consistent and reproducible outcomes of blastocyst biopsy and aneuploidy screening across different biopsy practitioners: a multicentre study involving 2586 embryo biopsies. Human Reproduction, 2016, 31, 199-208.	0.4	91
21	Detecting mosaicism in trophectoderm biopsies: current challenges and future possibilities. Human Reproduction, 2017, 32, 492-498.	0.4	82
22	Mosaicism between trophectoderm and inner cell mass. Fertility and Sterility, 2017, 107, 1098-1106.	0.5	82
23	Embryonic cell-free DNA versus trophectoderm biopsy for aneuploidy testing: concordance rate and clinical implications. Fertility and Sterility, 2019, 112, 510-519.	0.5	73
24	Diagnostic efficacy of blastocoel fluid and spent media as sources of DNA for preimplantation genetic testing in standard clinical conditions. Fertility and Sterility, 2018, 110, 870-879.e5.	0.5	67
25	Associations of blastocyst features, trophectoderm biopsy and other laboratory practice with post-warming behavior and implantation. Human Reproduction, 2018, 33, 1992-2001.	0.4	66
26	Cost-effectiveness of preimplantation genetic testing for aneuploidies. Fertility and Sterility, 2019, 111, 1169-1176.	0.5	65
27	Preimplantation genetic diagnosis for aneuploidy testing in women older than 44 years: a multicenter experience. Fertility and Sterility, 2017, 107, 1173-1180.	0.5	63
28	Preimplantation Genetic Testing for Aneuploidy Improves Clinical, Gestational, and Neonatal Outcomes in Advanced Maternal Age Patients Without Compromising Cumulative Live-Birth Rate.. Journal of Assisted Reproduction and Genetics, 2019, 36, 2493-2504.	1.2	61
29	Incidence, Origin, and Predictive Model for the Detection and Clinical Management of Segmental Aneuploidies in Human Embryos. American Journal of Human Genetics, 2020, 106, 525-534.	2.6	60
30	Inconclusive chromosomal assessment after blastocyst biopsy: prevalence, causative factors and outcomes after re-biopsy and re-vitrification. A multicenter experience. Human Reproduction, 2018, 33, 1839-1846.	0.4	57
31	Discordant Growth of Monozygotic Twins Starts at the Blastocyst Stage: A Case Study. Stem Cell Reports, 2015, 5, 946-953.	2.3	47
32	Looking past the appearance: a comprehensive description of the clinical contribution of poor-quality blastocysts to increase live birth rates during cycles with aneuploidy testing. Human Reproduction, 2019, 34, 1206-1214.	0.4	46
33	Time of morulation and trophectoderm quality are predictors of a live birth after euploid blastocyst transfer: a multicenter study. Fertility and Sterility, 2019, 112, 1080-1093.e1.	0.5	46
34	Optimizing clinical exome design and parallel gene-testing for recessive genetic conditions in preconception carrier screening: Translational research genomic data from 14,125 exomes. PLoS Genetics, 2019, 15, e1008409.	1.5	45
35	Abnormally fertilized oocytes can result in healthy live births: improved genetic technologies for preimplantation genetic testing can be used to rescue viable embryos in in vitro fertilization cycles. Fertility and Sterility, 2017, 108, 1007-1015.e3.	0.5	44
36	Preconception genome medicine: current state and future perspectives to improve infertility diagnosis and reproductive and health outcomes based on individual genomic data. Human Reproduction Update, 2021, 27, 254-279.	5.2	43

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37	Implementing PGD/PGD-A in IVF clinics: considerations for the best laboratory approach and management. Journal of Assisted Reproduction and Genetics, 2016, 33, 1279-1286.	1.2	36
38	The dawn of the future: 30Âyears from the first biopsy of a human embryo. The detailed history of an ongoing revolution. Human Reproduction Update, 2020, 26, 453-473.	5.2	35
39	Leave the past behind: womenâ€™s reproductive history shows no association with blastocystsâ€™ euploidy and limited association with live birth rates after euploid embryo transfers. Human Reproduction, 2021, 36, 929-940.	0.4	33
40	Pre-implantation genetic testing in ART: who will benefit and what is the evidence?. Journal of Assisted Reproduction and Genetics, 2016, 33, 1273-1278.	1.2	32
41	The Maribor consensus: report of an expert meeting on the development of performance indicators for clinical practice in ART. Human Reproduction Open, 2021, 2021, hoab022.	2.3	29
42	Diagnosis and clinical management of duplications and deletions. Fertility and Sterility, 2017, 107, 12-18.	0.5	28
43	Clinical validity and utility of preconception expanded carrier screening for the management of reproductive genetic risk in IVF and general population. Human Reproduction, 2021, 36, 2050-2061.	0.4	27
44	Biochemical pregnancy loss after frozen embryo transfer seems independent of embryo developmental stage and chromosomal status. Reproductive BioMedicine Online, 2018, 37, 349-357.	1.1	26
45	A cautionary note against embryo aneuploidy risk assessment using time-lapse imaging. Reproductive BioMedicine Online, 2014, 28, 273-275.	1.1	25
46	Artificial oocyte activation with calcium ionophore does not cause a widespread increase in chromosome segregation errors in the second meiotic division of the oocyte. Fertility and Sterility, 2016, 105, 807-814.e2.	0.5	25
47	Generation of meiomaps of genome-wide recombination and chromosome segregation in human oocytes. Nature Protocols, 2016, 11, 1229-1243.	5.5	24
48	An integrated investigation of oocyte developmental competence: expression of key genes in human cumulus cells, morphokinetics of early divisions, blastulation, and euploidy. Journal of Assisted Reproduction and Genetics, 2019, 36, 875-887.	1.2	23
49	Definition and validation of a custom protocol to detect miRNAs in the spent media after blastocyst culture: searching for biomarkers of implantation. Human Reproduction, 2019, 34, 1746-1761.	0.4	21
50	Past, Present, and Future Strategies for Enhanced Assessment of Embryo's Genome and Reproductive Competence in Women of Advanced Reproductive Age. Frontiers in Endocrinology, 2019, 10, 154.	1.5	21
51	Developmental clock compromises human twin model created by embryo splitting. Human Reproduction, 2015, 30, dev252.	0.4	20
52	Electronic witness system in IVFâ€”patients perspective. Journal of Assisted Reproduction and Genetics, 2016, 33, 1215-1222.	1.2	20
53	Effects of thyroid hormone on mitochondria and metabolism of human preimplantation embryos. Stem Cells, 2020, 38, 369-381.	1.4	20
54	Karyomapping identifies second polar body DNA persisting to the blastocyst stage: implications for embryo biopsy. Reproductive BioMedicine Online, 2015, 31, 776-782.	1.1	18

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55	Failure mode and effects analysis of witnessing protocols for ensuring traceability during PGD/PGS cycles. Reproductive BioMedicine Online, 2016, 33, 360-369.	1.1	18
56	Reply: Detecting mosaicism in trophectoderm biopsies. Human Reproduction, 2017, 32, 714-715.	0.4	18
57	A prospective randomized noninferiority study comparing recombinant FSH and highly purified menotropin in intrauterine insemination cycles in couples with unexplained infertility and/or mild-moderate male factor. Fertility and Sterility, 2011, 95, 689-694.	0.5	17
58	Human Embryos Created by Embryo Splitting Secrete Significantly Lower Levels of miRNA-30c. Stem Cells and Development, 2016, 25, 1853-1862.	1.1	16
59	Prevalence of XXY karyotypes in human blastocysts: multicentre data from 7549 trophectoderm biopsies obtained during preimplantation genetic testing cycles in IVF. Human Reproduction, 2018, 33, 1355-1363.	0.4	16
60	The worldwide frozen embryo reservoir: methodologies to achieve optimal results. Annals of the New York Academy of Sciences, 2011, 1221, 32-39.	1.8	15
61	Induced Pluripotent Stem Cell Differentiation and Three-Dimensional Tissue Formation Attenuate Clonal Epigenetic Differences in Trichohyalin. Stem Cells and Development, 2016, 25, 1366-1375.	1.1	10
62	PGS for recurrent pregnancy loss: still an open question. Human Reproduction, 2017, 32, 476-477.	0.4	9
63	Preimplantation genetic testing in assisted reproductive technology. Panminerva Medica, 2019, 61, 30-41.	0.2	8
64	New approaches for multifactor preimplantation genetic diagnosis of monogenic diseases and aneuploidies from a single biopsy. Fertility and Sterility, 2016, 105, 297-298.	0.5	7
65	The main will of the patients of a private Italian IVF clinic for their aneuploid/affected blastocysts would be donation to research: a currently forbidden choice. Journal of Assisted Reproduction and Genetics, 2019, 36, 1555-1560.	1.2	7
66	Fertility counseling in women with hereditary cancer syndromes. Critical Reviews in Oncology/Hematology, 2022, 171, 103604.	2.0	7
67	45,X product of conception after preimplantation genetic diagnosis and euploid embryo transfer: evidence of a spontaneous conception confirmed by DNA fingerprinting. Reproductive Biology and Endocrinology, 2016, 14, 55.	1.4	5
68	Should the reproductive risk of a couple aiming to conceive be tested in the contemporary clinical context?. Fertility and Sterility, 2019, 111, 229-238.	0.5	5
69	Incidence of Î²-thalassemia carrier on 1495 couples in preconceptional period. Journal of Maternal-Fetal and Neonatal Medicine, 2013, 26, 445-448.	0.7	4
70	Maternal exome analysis for the diagnosis of oocyte maturation defects and early embryonic developmental arrest. Reproductive BioMedicine Online, 2022, 45, 508-518.	1.1	4
71	Avoid mixing apples and oranges: blastocysts diagnosed with uniform whole chromosome aneuploidies are reproductively incompetent and their transfer is harmful. Human Reproduction, 2022, 37, 2213-2214.	0.4	4
72	Reply: Questions about the accuracy of polar body analysis for preimplantation genetic screening. Human Reproduction, 2013, 28, 1733-1736.	0.4	3

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73	Testing the mathematical model for PGT-A inefficiency with scientific sources demonstrates the efficacy of PGT-A. Human Reproduction, 2020, 35, 2163-2165.	0.4	3
74	IUI and uterine lavage of in vivoâ€“produced blastocysts for PGT purposes: is it a technically and ethically reasonable perspective? Is it actually needed?. Journal of Assisted Reproduction and Genetics, 2020, 37, 1579-1582.	1.2	3
75	When embryology meets genetics: the definition of developmentally incompetent preimplantation embryos (DIPE)â€”the consensus of two Italian scientific societies. Journal of Assisted Reproduction and Genetics, 2021, 38, 319-331.	1.2	3
76	Oocyte Cryopreservation at a Young Age Provides an Effective Strategy for Expanding Fertile Lifespan. Frontiers in Reproductive Health, 2021, 3, .	0.6	3
77	Prioritization of putatively detrimental variants in euploid miscarriages. Scientific Reports, 2022, 12, 1997.	1.6	3
78	Technical factors to consider when developing an Expanded Carrier Screening platform. Current Opinion in Obstetrics and Gynecology, 2021, 33, 178-183.	0.9	2
79	Comprehensive Chromosomal Screening from Polar Body Biopsy to Blastocyst Trophectoderm Sampling: Evidences and Considerations. , 2015, , 89-102.		1
80	Careful and expert interpretation of PGT-A data can resolve the mosaicism dilemma. Human Reproduction, 2019, 34, 2311-2312.	0.4	1
81	Egg and Embryo Banking: Essential Elements for Maintaining High Rates of Success. , 2013, , 253-276.		1
82	Preimplantation Genetic Screening: Unraveling the Controversy. , 0, , 104-104.		1
83	Molecular tools for the genomic assessment of oocyteâ€™s reproductive competence. Journal of Assisted Reproduction and Genetics, 2022, , 1.	1.2	1
84	Genome-Wide Maps of Recombination and Chromosome Segregation in Human Oocytes and Embryos Show Selection for Maternal Recombination Rates. Obstetrical and Gynecological Survey, 2015, 70, 628-629.	0.2	0
85	Chromosomal Abnormalities and Their Reproductive Impact. , 2018, , 21-27.		0
86	Embryo Biopsy: Polar Body, Cleavage Stage and Trophectoderm. , 2018, , 191-197.		0
87	Chromosome Errors in Human Eggs Shape Natural Fertility Over Reproductive Life Span. Obstetrical and Gynecological Survey, 2020, 75, 412-413.	0.2	0
88	Misreporting published data is not the way forward for a constructive scientific debate. Journal of Assisted Reproduction and Genetics, 2020, 37, 1505-1506.	1.2	0
89	The Patient Evaluation of the Future: Genetics, New Diagnostics, and Prediction Modeling. , 2020, , 11-22.		0
90	Polar Body, Cleavage Stage and Trophectoderm Biopsy. , 2017, , 245-258.		0

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91	Lights and shadows of preimplantation genetic testing for aneuploidy: better focusing on the accurate report of nonmosaic aneuploidies. Fertility and Sterility, 2022, 117, 324-325.	0.5	0
92	OUP accepted manuscript. Human Reproduction, 2022, , .	0.4	0