

Antonio Capalbo

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

3,439
citations

29
h-index

58
g-index

95
ext. papers

4,425
ext. citations

5.4
avg. IF

5.2
L-index

#	Paper	IF	Citations
85	Fertility counseling in women with hereditary cancer syndromes.. <i>Critical Reviews in Oncology/Hematology</i> , 2022 , 103604	7	1
84	Molecular tools for the genomic assessment of oocyte's reproductive competence.. <i>Journal of Assisted Reproduction and Genetics</i> , 2022 , 1	3.4	0
83	Prioritization of putatively detrimental variants in euploid miscarriages.. <i>Scientific Reports</i> , 2022 , 12, 1997.9	4.9	1
82	Mosaic human preimplantation embryos and their developmental potential in a prospective, non-selection clinical trial. <i>American Journal of Human Genetics</i> , 2021 , 108, 2238-2247	11	9
81	Technical factors to consider when developing an Expanded Carrier Screening platform. <i>Current Opinion in Obstetrics and Gynecology</i> , 2021 , 33, 178-183	2.4	2
80	Clinical validity and utility of preconception expanded carrier screening for the management of reproductive genetic risk in IVF and general population. <i>Human Reproduction</i> , 2021 , 36, 2050-2061	5.7	9
79	The Maribor consensus: report of an expert meeting on the development of performance indicators for clinical practice in ART. <i>Human Reproduction Open</i> , 2021 , 2021, hoab022	6.1	8
78	When embryology meets genetics: the definition of developmentally incompetent preimplantation embryos (DIPE)-the consensus of two Italian scientific societies. <i>Journal of Assisted Reproduction and Genetics</i> , 2021 , 38, 319-331	3.4	1
77	Preconception genome medicine: current state and future perspectives to improve infertility diagnosis and reproductive and health outcomes based on individual genomic data. <i>Human Reproduction Update</i> , 2021 , 27, 254-279	15.8	15
76	Leave the past behind: women's reproductive history shows no association with blastocysts' euploidy and limited association with live birth rates after euploid embryo transfers. <i>Human Reproduction</i> , 2021 , 36, 929-940	5.7	6
75	Misreporting published data is not the way forward for a constructive scientific debate. <i>Journal of Assisted Reproduction and Genetics</i> , 2020 , 37, 1505-1506	3.4	
74	IUI and uterine lavage of in vivo-produced blastocysts for PGT purposes: is it a technically and ethically reasonable perspective? Is it actually needed?. <i>Journal of Assisted Reproduction and Genetics</i> , 2020 , 37, 1579-1582	3.4	1
73	The Patient Evaluation of the Future: Genetics, New Diagnostics, and Prediction Modeling 2020 , 11-22		
72	The dawn of the future: 30 years from the first biopsy of a human embryo. The detailed history of an ongoing revolution. <i>Human Reproduction Update</i> , 2020 , 26, 453-473	15.8	17
71	Effects of thyroid hormone on mitochondria and metabolism of human preimplantation embryos. <i>Stem Cells</i> , 2020 , 38, 369-381	5.8	11
70	Testing the mathematical model for PGT-A inefficiency with scientific sources demonstrates the efficacy of PGT-A. <i>Human Reproduction</i> , 2020 , 35, 2163-2165	5.7	2
69	Incidence, Origin, and Predictive Model for the Detection and Clinical Management of Segmental Aneuploidies in Human Embryos. <i>American Journal of Human Genetics</i> , 2020 , 106, 525-534	11	29

68	Chromosome errors in human eggs shape natural fertility over reproductive life span. <i>Science</i> , 2019 , 365, 1466-1469	33.3	108
67	Preimplantation genetic testing in assisted reproductive technology. <i>Panminerva Medica</i> , 2019 , 61, 30-41		2
66	An integrated investigation of oocyte developmental competence: expression of key genes in human cumulus cells, morphokinetics of early divisions, blastulation, and euploidy. <i>Journal of Assisted Reproduction and Genetics</i> , 2019 , 36, 875-887	3.4	12
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. <i>Journal of Assisted Reproduction and Genetics</i> , 2019 , 36, 1555-1560	3.4	3
64	Embryonic cell-free DNA versus trophoctoderm biopsy for aneuploidy testing: concordance rate and clinical implications. <i>Fertility and Sterility</i> , 2019 , 112, 510-519	4.8	29
63	Past, Present, and Future Strategies for Enhanced Assessment of Embryo's Genome and Reproductive Competence in Women of Advanced Reproductive Age. <i>Frontiers in Endocrinology</i> , 2019 , 10, 154	5.7	10
62	Cost-effectiveness of preimplantation genetic testing for aneuploidies. <i>Fertility and Sterility</i> , 2019 , 111, 1169-1176	4.8	34
61	Definition and validation of a custom protocol to detect miRNAs in the spent media after blastocyst culture: searching for biomarkers of implantation. <i>Human Reproduction</i> , 2019 , 34, 1746-1761	5.7	13
60	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. <i>Human Reproduction</i> , 2019 , 34, 1206-1214	5.7	27
59	Optimizing clinical exome design and parallel gene-testing for recessive genetic conditions in preconception carrier screening: Translational research genomic data from 14,125 exomes. <i>PLoS Genetics</i> , 2019 , 15, e1008409	6	19
58	Preimplantation Genetic Testing for Aneuploidy Improves Clinical, Gestational, and Neonatal Outcomes in Advanced Maternal Age Patients Without Compromising Cumulative Live-Birth Rate. <i>Journal of Assisted Reproduction and Genetics</i> , 2019 , 36, 2493-2504	3.4	23
57	Careful and expert interpretation of PGT-A data can resolve the mosaicism dilemma. <i>Human Reproduction</i> , 2019 , 34, 2311-2312	5.7	1
56	Time of morulation and trophoctoderm quality are predictors of a live birth after euploid blastocyst transfer: a multicenter study. <i>Fertility and Sterility</i> , 2019 , 112, 1080-1093.e1	4.8	16
55	Segregation of mitochondrial DNA heteroplasmy through a developmental genetic bottleneck in human embryos. <i>Nature Cell Biology</i> , 2018 , 20, 144-151	23.4	110
54	Chromosomal Abnormalities and Their Reproductive Impact 2018 , 21-27		
53	Embryo Biopsy: Polar Body, Cleavage Stage and Trophoctoderm 2018 , 191-197		
52	Associations of blastocyst features, trophoctoderm biopsy and other laboratory practice with post-warming behavior and implantation. <i>Human Reproduction</i> , 2018 , 33, 1992-2001	5.7	38
51	Diagnostic efficacy of blastocoel fluid and spent media as sources of DNA for preimplantation genetic testing in standard clinical conditions. <i>Fertility and Sterility</i> , 2018 , 110, 870-879.e5	4.8	44

50	Inconclusive chromosomal assessment after blastocyst biopsy: prevalence, causative factors and outcomes after re-biopsy and re-vitrification. A multicenter experience. <i>Human Reproduction</i> , 2018 , 33, 1839-1846	5.7	26
49	Prevalence of XXY karyotypes in human blastocysts: multicentre data from 7549 trophectoderm biopsies obtained during preimplantation genetic testing cycles in IVF. <i>Human Reproduction</i> , 2018 , 33, 1355-1363	5.7	10
48	Biochemical pregnancy loss after frozen embryo transfer seems independent of embryo developmental stage and chromosomal status. <i>Reproductive BioMedicine Online</i> , 2018 , 37, 349-357	4	19
47	Preimplantation genetic diagnosis for aneuploidy testing in women older than 44 years: a multicenter experience. <i>Fertility and Sterility</i> , 2017 , 107, 1173-1180	4.8	49
46	Mosaicism between trophectoderm and inner cell mass. <i>Fertility and Sterility</i> , 2017 , 107, 1098-1106	4.8	54
45	Diagnosis and clinical management of duplications and deletions. <i>Fertility and Sterility</i> , 2017 , 107, 12-18	4.8	17
44	Reply: Detecting mosaicism in trophectoderm biopsies. <i>Human Reproduction</i> , 2017 , 32, 714-715	5.7	2
43	PGS for recurrent pregnancy loss: still an open question. <i>Human Reproduction</i> , 2017 , 32, 476-477	5.7	6
42	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. <i>Fertility and Sterility</i> , 2017 , 108, 961-972.e3	4.8	68
41	Detecting mosaicism in trophectoderm biopsies: current challenges and future possibilities. <i>Human Reproduction</i> , 2017 , 32, 492-498	5.7	66
40	Human female meiosis revised: new insights into the mechanisms of chromosome segregation and aneuploidies from advanced genomics and time-lapse imaging. <i>Human Reproduction Update</i> , 2017 , 23, 706-722	15.8	108
39	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. <i>Fertility and Sterility</i> , 2017 , 108, 1007-1015.e3	4.8	24
38	Polar Body, Cleavage Stage and Trophectoderm Biopsy 2017 , 245-258		
37	MicroRNAs in spent blastocyst culture medium are derived from trophectoderm cells and can be explored for human embryo reproductive competence assessment. <i>Fertility and Sterility</i> , 2016 , 105, 225-335.e1-3	4.8	92
36	Electronic witness system in IVF-patients perspective. <i>Journal of Assisted Reproduction and Genetics</i> , 2016 , 33, 1215-22	3.4	13
35	Implementing PGD/PGD-A in IVF clinics: considerations for the best laboratory approach and management. <i>Journal of Assisted Reproduction and Genetics</i> , 2016 , 33, 1279-1286	3.4	30
34	The why, the how and the when of PGS 2.0: current practices and expert opinions of fertility specialists, molecular biologists, and embryologists. <i>Molecular Human Reproduction</i> , 2016 , 22, 845-57	4.4	99
33	Generation of meiomaps of genome-wide recombination and chromosome segregation in human oocytes. <i>Nature Protocols</i> , 2016 , 11, 1229-43	18.8	20

32	Consistent and reproducible outcomes of blastocyst biopsy and aneuploidy screening across different biopsy practitioners: a multicentre study involving 2586 embryo biopsies. <i>Human Reproduction</i> , 2016 , 31, 199-208	5.7	58
31	Artificial oocyte activation with calcium ionophore does not cause a widespread increase in chromosome segregation errors in the second meiotic division of the oocyte. <i>Fertility and Sterility</i> , 2016 , 105, 807-814.e2	4.8	19
30	New approaches for multifactor preimplantation genetic diagnosis of monogenic diseases and aneuploidies from a single biopsy. <i>Fertility and Sterility</i> , 2016 , 105, 297-8	4.8	6
29	The Impact of Biopsy on Human Embryo Developmental Potential during Preimplantation Genetic Diagnosis. <i>BioMed Research International</i> , 2016 , 2016, 7193075	3	90
28	Failure mode and effects analysis of witnessing protocols for ensuring traceability during PGD/PGS cycles. <i>Reproductive BioMedicine Online</i> , 2016 , 33, 360-9	4	13
27	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. <i>Fertility and Sterility</i> , 2016 , 105, 1488-1495.e1	4.8	139
26	45,X product of conception after preimplantation genetic diagnosis and euploid embryo transfer: evidence of a spontaneous conception confirmed by DNA fingerprinting. <i>Reproductive Biology and Endocrinology</i> , 2016 , 14, 55	5	4
25	Human Embryos Created by Embryo Splitting Secrete Significantly Lower Levels of miRNA-30c. <i>Stem Cells and Development</i> , 2016 , 25, 1853-1862	4.4	13
24	Pre-implantation genetic testing in ART: who will benefit and what is the evidence?. <i>Journal of Assisted Reproduction and Genetics</i> , 2016 , 33, 1273-1278	3.4	28
23	Induced Pluripotent Stem Cell Differentiation and Three-Dimensional Tissue Formation Attenuate Clonal Epigenetic Differences in Trichohyalin. <i>Stem Cells and Development</i> , 2016 , 25, 1366-75	4.4	8
22	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. <i>Human Reproduction</i> , 2015 , 30, 2097-106	5.7	85
21	Genome-wide maps of recombination and chromosome segregation in human oocytes and embryos show selection for maternal recombination rates. <i>Nature Genetics</i> , 2015 , 47, 727-735	36.3	173
20	Comprehensive Chromosomal Screening from Polar Body Biopsy to Blastocyst Trophectoderm Sampling: Evidences and Considerations 2015 , 89-102		1
19	Karyomapping identifies second polar body DNA persisting to the blastocyst stage: implications for embryo biopsy. <i>Reproductive BioMedicine Online</i> , 2015 , 31, 776-82	4	13
18	Developmental clock compromises human twin model created by embryo splitting. <i>Human Reproduction</i> , 2015 , 30, 2774-84	5.7	15
17	Comparison of array comparative genomic hybridization and quantitative real-time PCR-based aneuploidy screening of blastocyst biopsies. <i>European Journal of Human Genetics</i> , 2015 , 23, 901-6	5.3	86
16	No evidence of association between blastocyst aneuploidy and morphokinetic assessment in a selected population of poor-prognosis patients: a longitudinal cohort study. <i>Reproductive BioMedicine Online</i> , 2015 , 30, 57-66	4	84
15	Discordant Growth of Monozygotic Twins Starts at the Blastocyst Stage: A Case Study. <i>Stem Cell Reports</i> , 2015 , 5, 946-953	8	38

14	Correlation between standard blastocyst morphology, euploidy and implantation: an observational study in two centers involving 956 screened blastocysts. <i>Human Reproduction</i> , 2014 , 29, 1173-81	5.7	271
13	A cautionary note against embryo aneuploidy risk assessment using time-lapse imaging. <i>Reproductive BioMedicine Online</i> , 2014 , 28, 273-5	4	22
12	Incidence of β -thalassemia carrier on 1495 couples in preconceptional period. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2013 , 26, 445-8	2	2
11	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. <i>Human Reproduction</i> , 2013 , 28, 2298-307	5.7	134
10	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. <i>Human Reproduction</i> , 2013 , 28, 509-18	5.7	150
9	Reply: Questions about the accuracy of polar body analysis for preimplantation genetic screening. <i>Human Reproduction</i> , 2013 , 28, 1733-6	5.7	3
8	Egg and Embryo Banking: Essential Elements for Maintaining High Rates of Success 2013 , 253-276		1
7	Consistent and predictable delivery rates after oocyte vitrification: an observational longitudinal cohort multicentric study. <i>Human Reproduction</i> , 2012 , 27, 1606-12	5.7	175
6	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. <i>Fertility and Sterility</i> , 2011 , 95, 689-94	4.8	17
5	The worldwide frozen embryo reservoir: methodologies to achieve optimal results. <i>Annals of the New York Academy of Sciences</i> , 2011 , 1221, 32-9	6.5	15
4	Cumulative ongoing pregnancy rate achieved with oocyte vitrification and cleavage stage transfer without embryo selection in a standard infertility program. <i>Human Reproduction</i> , 2010 , 25, 1199-205	5.7	121
3	Embryo development of fresh versus vitrified metaphase II oocytes after ICSI: a prospective randomized sibling-oocyte study. <i>Human Reproduction</i> , 2010 , 25, 66-73	5.7	343
2	Prioritization of putatively detrimental variants in euploid miscarriages		2
1	A prospective double-blinded non-selection trial of reproductive outcomes and chromosomal normalcy of newborns derived from putative low/moderate-degree mosaic IVF embryos		2