

# Antonio Capalbo

## List of Publications by Citations

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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  
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5.4  
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L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 85 | Embryo development of fresh VersusVitrified metaphase II oocytes after ICSI: a prospective randomized sibling-oocyte study. <i>Human Reproduction</i> , <b>2010</b> , 25, 66-73  | 5.7  | 343       |
| 84 | Correlation between standard blastocyst morphology, euploidy and implantation: an observational study in two centers involving 956 screened blastocysts. <i>Human Reproduction</i> , <b>2014</b> , 29, 1173-81   | 5.7  | 271       |
| 83 | Consistent and predictable delivery rates after oocyte vitrification: an observational longitudinal cohort multicentric study. <i>Human Reproduction</i> , <b>2012</b> , 27, 1606-12   | 5.7  | 175       |
| 82 | Genome-wide maps of recombination and chromosome segregation in human oocytes and embryos show selection for maternal recombination rates. <i>Nature Genetics</i> , <b>2015</b> , 47, 727-735  | 36.3 | 173       |
| 81 | 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> , <b>2013</b> , 28, 509-18                                       | 5.7  | 150       |
| 80 | 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> , <b>2016</b> , 105, 1488-1495.e1 | 4.8  | 139       |
| 79 | 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> , <b>2013</b> , 28, 2298-307                                     | 5.7  | 134       |
| 78 | Cumulative ongoing pregnancy rate achieved with oocyte vitrification and cleavage stage transfer without embryo selection in a standard infertility program. <i>Human Reproduction</i> , <b>2010</b> , 25, 1199-205  | 5.7  | 121       |
| 77 | Segregation of mitochondrial DNA heteroplasmy through a developmental genetic bottleneck in human embryos. <i>Nature Cell Biology</i> , <b>2018</b> , 20, 144-151  | 23.4 | 110       |
| 76 | Chromosome errors in human eggs shape natural fertility over reproductive life span. <i>Science</i> , <b>2019</b> , 365, 1466-1469   | 33.3 | 108       |
| 75 | 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> , <b>2017</b> , 23, 706-722  | 15.8 | 108       |
| 74 | 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> , <b>2016</b> , 22, 845-57  | 4.4  | 99        |
| 73 | 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> , <b>2016</b> , 105, 225-35.e1-3 <sup>2</sup>  | 4.8  | 92        |
| 72 | The Impact of Biopsy on Human Embryo Developmental Potential during Preimplantation Genetic Diagnosis. <i>BioMed Research International</i> , <b>2016</b> , 2016, 7193075  | 3    | 90        |
| 71 | Comparison of array comparative genomic hybridization and quantitative real-time PCR-based aneuploidy screening of blastocyst biopsies. <i>European Journal of Human Genetics</i> , <b>2015</b> , 23, 901-6  | 5.3  | 86        |
| 70 | 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> , <b>2015</b> , 30, 2097-106                               | 5.7  | 85        |
| 69 | 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> , <b>2015</b> , 30, 57-66   | 4    | 84        |

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|----|---|-----|----|
| 68 | 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> , <b>2017</b> , 108, 961-972.e3 | 4.8 | 68 |
| 67 | Detecting mosaicism in trophectoderm biopsies: current challenges and future possibilities. <i>Human Reproduction</i> , <b>2017</b> , 32, 492-498   | 5.7 | 66 |
| 66 | 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> , <b>2016</b> , 31, 199-208   | 5.7 | 58 |
| 65 | Mosaicism between trophectoderm and inner cell mass. <i>Fertility and Sterility</i> , <b>2017</b> , 107, 1098-1106  | 4.8 | 54 |
| 64 | Preimplantation genetic diagnosis for aneuploidy testing in women older than 44 years: a multicenter experience. <i>Fertility and Sterility</i> , <b>2017</b> , 107, 1173-1180  | 4.8 | 49 |
| 63 | 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> , <b>2018</b> , 110, 870-879.e5   | 4.8 | 44 |
| 62 | Discordant Growth of Monozygotic Twins Starts at the Blastocyst Stage: A Case Study. <i>Stem Cell Reports</i> , <b>2015</b> , 5, 946-953  | 8   | 38 |
| 61 | Associations of blastocyst features, trophectoderm biopsy and other laboratory practice with post-warming behavior and implantation. <i>Human Reproduction</i> , <b>2018</b> , 33, 1992-2001  | 5.7 | 38 |
| 60 | Cost-effectiveness of preimplantation genetic testing for aneuploidies. <i>Fertility and Sterility</i> , <b>2019</b> , 111, 1169-1176   | 4.8 | 34 |
| 59 | Implementing PGD/PGD-A in IVF clinics: considerations for the best laboratory approach and management. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2016</b> , 33, 1279-1286   | 3.4 | 30 |
| 58 | Embryonic cell-free DNA versus trophectoderm biopsy for aneuploidy testing: concordance rate and clinical implications. <i>Fertility and Sterility</i> , <b>2019</b> , 112, 510-519   | 4.8 | 29 |
| 57 | Incidence, Origin, and Predictive Model for the Detection and Clinical Management of Segmental Aneuploidies in Human Embryos. <i>American Journal of Human Genetics</i> , <b>2020</b> , 106, 525-534  | 11  | 29 |
| 56 | Pre-implantation genetic testing in ART: who will benefit and what is the evidence?. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2016</b> , 33, 1273-1278   | 3.4 | 28 |
| 55 | 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> , <b>2019</b> , 34, 1206-1214                               | 5.7 | 27 |
| 54 | Inconclusive chromosomal assessment after blastocyst biopsy: prevalence, causative factors and outcomes after re-biopsy and re-vitrification. A multicenter experience. <i>Human Reproduction</i> , <b>2018</b> , 33, 1839-1846   | 5.7 | 26 |
| 53 | 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> , <b>2017</b> , 108, 1007-1015.e3  | 4.8 | 24 |
| 52 | 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> , <b>2019</b> , 36, 2493-2504  | 3.4 | 23 |
| 51 | A cautionary note against embryo aneuploidy risk assessment using time-lapse imaging. <i>Reproductive BioMedicine Online</i> , <b>2014</b> , 28, 273-5  | 4   | 22 |

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|----|--|------|----|
| 50 | Generation of meiomaps of genome-wide recombination and chromosome segregation in human oocytes. <i>Nature Protocols</i> , <b>2016</b> , 11, 1229-43   | 18.8 | 20 |
| 49 | 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> , <b>2016</b> , 105, 807-814.e2   | 4.8  | 19 |
| 48 | 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> , <b>2019</b> , 15, e1008409                                      | 6    | 19 |
| 47 | Biochemical pregnancy loss after frozen embryo transfer seems independent of embryo developmental stage and chromosomal status. <i>Reproductive BioMedicine Online</i> , <b>2018</b> , 37, 349-357   | 4    | 19 |
| 46 | Diagnosis and clinical management of duplications and deletions. <i>Fertility and Sterility</i> , <b>2017</b> , 107, 12-18   | 4.8  | 17 |
| 45 | 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> , <b>2011</b> , 95, 689-94 | 4.8  | 17 |
| 44 | 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> , <b>2020</b> , 26, 453-473  | 15.8 | 17 |
| 43 | Time of morulation and trophectoderm quality are predictors of a live birth after euploid blastocyst transfer: a multicenter study. <i>Fertility and Sterility</i> , <b>2019</b> , 112, 1080-1093.e1   | 4.8  | 16 |
| 42 | Developmental clock compromises human twin model created by embryo splitting. <i>Human Reproduction</i> , <b>2015</b> , 30, 2774-84  | 5.7  | 15 |
| 41 | The worldwide frozen embryo reservoir: methodologies to achieve optimal results. <i>Annals of the New York Academy of Sciences</i> , <b>2011</b> , 1221, 32-9  | 6.5  | 15 |
| 40 | 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> , <b>2021</b> , 27, 254-279                                      | 15.8 | 15 |
| 39 | Karyomapping identifies second polar body DNA persisting to the blastocyst stage: implications for embryo biopsy. <i>Reproductive BioMedicine Online</i> , <b>2015</b> , 31, 776-82  | 4    | 13 |
| 38 | Electronic witness system in IVF-patients perspective. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2016</b> , 33, 1215-22  | 3.4  | 13 |
| 37 | 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> , <b>2019</b> , 34, 1746-1761   | 5.7  | 13 |
| 36 | Failure mode and effects analysis of witnessing protocols for ensuring traceability during PGD/PGS cycles. <i>Reproductive BioMedicine Online</i> , <b>2016</b> , 33, 360-9  | 4    | 13 |
| 35 | Human Embryos Created by Embryo Splitting Secrete Significantly Lower Levels of miRNA-30c. <i>Stem Cells and Development</i> , <b>2016</b> , 25, 1853-1862   | 4.4  | 13 |
| 34 | 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> , <b>2019</b> , 36, 875-887                | 3.4  | 12 |
| 33 | Effects of thyroid hormone on mitochondria and metabolism of human preimplantation embryos. <i>Stem Cells</i> , <b>2020</b> , 38, 369-381  | 5.8  | 11 |

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| 32 | 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> , <b>2019</b> , 10, 154   | 5.7 | 10 |
| 31 | 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> , <b>2018</b> , 33, 1355-1363                            | 5.7 | 10 |
| 30 | Mosaic human preimplantation embryos and their developmental potential in a prospective, non-selection clinical trial. <i>American Journal of Human Genetics</i> , <b>2021</b> , 108, 2238-2247  | 11  | 9  |
| 29 | 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> , <b>2021</b> , 36, 2050-2061                                       | 5.7 | 9  |
| 28 | The Maribor consensus: report of an expert meeting on the development of performance indicators for clinical practice in ART. <i>Human Reproduction Open</i> , <b>2021</b> , 2021, hoab022   | 6.1 | 8  |
| 27 | Induced Pluripotent Stem Cell Differentiation and Three-Dimensional Tissue Formation Attenuate Clonal Epigenetic Differences in Trichohyalin. <i>Stem Cells and Development</i> , <b>2016</b> , 25, 1366-75  | 4.4 | 8  |
| 26 | PGS for recurrent pregnancy loss: still an open question. <i>Human Reproduction</i> , <b>2017</b> , 32, 476-477  | 5.7 | 6  |
| 25 | New approaches for multifactor preimplantation genetic diagnosis of monogenic diseases and aneuploidies from a single biopsy. <i>Fertility and Sterility</i> , <b>2016</b> , 105, 297-8  | 4.8 | 6  |
| 24 | Leave the past behind: women's reproductive history shows no association with blastocyst's euploidy and limited association with live birth rates after euploid embryo transfers. <i>Human Reproduction</i> , <b>2021</b> , 36, 929-940                | 5.7 | 6  |
| 23 | 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> , <b>2016</b> , 14, 55             | 5   | 4  |
| 22 | 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> , <b>2019</b> , 36, 1555-1560 | 3.4 | 3  |
| 21 | Reply: Questions about the accuracy of polar body analysis for preimplantation genetic screening. <i>Human Reproduction</i> , <b>2013</b> , 28, 1733-6   | 5.7 | 3  |
| 20 | Reply: Detecting mosaicism in trophectoderm biopsies. <i>Human Reproduction</i> , <b>2017</b> , 32, 714-715  | 5.7 | 2  |
| 19 | Preimplantation genetic testing in assisted reproductive technology. <i>Panminerva Medica</i> , <b>2019</b> , 61, 30-41  |     | 2  |
| 18 | Incidence of $\beta$ -thalassaemia carrier on 1495 couples in preconceptional period. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2013</b> , 26, 445-8   | 2   | 2  |
| 17 | Testing the mathematical model for PGT-A inefficiency with scientific sources demonstrates the efficacy of PGT-A. <i>Human Reproduction</i> , <b>2020</b> , 35, 2163-2165  | 5.7 | 2  |
| 16 | Technical factors to consider when developing an Expanded Carrier Screening platform. <i>Current Opinion in Obstetrics and Gynecology</i> , <b>2021</b> , 33, 178-183  | 2.4 | 2  |
| 15 | Prioritization of putatively detrimental variants in euploid miscarriages  |     | 2  |

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| 14 | 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 |
| 13 | Comprehensive Chromosomal Screening from Polar Body Biopsy to Blastocyst Trophectoderm Sampling: Evidences and Considerations <b>2015</b> , 89-102   |     | 1 |
| 12 | 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> , <b>2020</b> , 37, 1579-1582    | 3.4 | 1 |
| 11 | Careful and expert interpretation of PGT-A data can resolve the mosaicism dilemma. <i>Human Reproduction</i> , <b>2019</b> , 34, 2311-2312   | 5.7 | 1 |
| 10 | Fertility counseling in women with hereditary cancer syndromes.. <i>Critical Reviews in Oncology/Hematology</i> , <b>2022</b> , 103604   | 7   | 1 |
| 9  | Prioritization of putatively detrimental variants in euploid miscarriages.. <i>Scientific Reports</i> , <b>2022</b> , 12, 1997.9   | 7.9 | 1 |
| 8  | 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> , <b>2021</b> , 38, 319-331 | 3.4 | 1 |
| 7  | Egg and Embryo Banking: Essential Elements for Maintaining High Rates of Success <b>2013</b> , 253-276   |     | 1 |
| 6  | Molecular tools for the genomic assessment of oocyte's reproductive competence.. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2022</b> , 1  | 3.4 | 0 |
| 5  | Misreporting published data is not the way forward for a constructive scientific debate. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2020</b> , 37, 1505-1506  | 3.4 |   |
| 4  | The Patient Evaluation of the Future: Genetics, New Diagnostics, and Prediction Modeling <b>2020</b> , 11-22   |     |   |
| 3  | Chromosomal Abnormalities and Their Reproductive Impact <b>2018</b> , 21-27  |     |   |
| 2  | Embryo Biopsy: Polar Body, Cleavage Stage and Trophectoderm <b>2018</b> , 191-197  |     |   |
| 1  | Polar Body, Cleavage Stage and Trophectoderm Biopsy <b>2017</b> , 245-258  |     |   |