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**The Istanbul consensus workshop on embryo assessment: proceedings of an expert meeting**

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#	Paper	IF	Citations
1104	Relationship between oocyte abnormal morphology and intracytoplasmic sperm injection outcomes: a meta-analysis. <b>2011</b> , 159, 364-70		47
1103	Which morphological scoring system is relevant in human embryo development?. <b>2011</b> , 32 Suppl 3, S252-6		89
1102	Trophectoderm morphology: an important parameter for predicting live birth after single blastocyst transfer. <i>Human Reproduction</i> , <b>2011</b> , 26, 3289-96	5.7	170
1101	Oocyte morphology does not affect post-warming survival rate in an egg-cryobanking donation program. <b>2011</b> , 28, 1177-81		3
1100	Monozygotic Triplets and Dizygotic Twins following Transfer of Three Poor-Quality Cleavage Stage Embryos. <b>2012</b> , 2012, 763057		6
1099	Embryo assessment strategies and their validation for clinical use: a critical analysis of methodology. <b>2012</b> , 24, 141-50		12
1098	Time-lapse technology: evaluation of embryo quality and new markers for embryo selection. <b>2012</b> , 7, 175-190		12
1097	Embryo morphology as a predictor of IVF success: an evaluation of the proposed UK ACE grading scheme for cleavage stage embryos. <b>2012</b> , 15, 11-7		17
1096	The non-independence of treatment outcomes from repeat IVF cycles: estimates and consequences. <i>Human Reproduction</i> , <b>2012</b> , 27, 436-43	5.7	9
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916	Relationship of polar bodies morphology to embryo quality and pregnancy outcome. <b>2016</b> , 24, 401-7	15
915	Association between endometrial thickness in oocyte donation cycles and pregnancy success rates. <b>2015</b> ,	7
914	Effect of growth differentiation factor-9' C447T and G546A polymorphisms on the outcomes of in vitro fertilization. <b>2016</b> , 13, 4437-42	5
913	Clinical Application of Methods to Select In Vitro Fertilized Embryos. <b>2016</b> , 267-312	1
912	New Horizons/Developments in Time-Lapse Morphokinetic Analysis of Mammalian Embryos. <b>2016</b> , 313-338	
911	Good quality blastocyst from non-/mono-pronuclear zygote may be used for transfer during IVF. <b>2016</b> , 62, 139-45	9
910	Oocytes affected by smooth endoplasmic reticulum aggregates: to discard or not to discard?. <b>2016</b> , 294, 175-84	12
909	Oxidative stress biomarkers in endometrial secretions: A comparison between successful and unsuccessful in vitro fertilization cycles. <b>2016</b> , 116, 70-5	13
908	The effect of a specific histidine-rich glycoprotein polymorphism on male infertility and semen parameters. <b>2016</b> , 33, 180-8	3

907	Study of nucleation status in the second cell cycle of human embryo and its impact on implantation rate. <b>2016</b> , 106, 291-299.e2		21
906	A retrospective analysis of morphokinetic parameters according to the implantation outcome of IVF treatment. <b>2016</b> , 197, 186-90		11
905	Better Quality and More Usable Embryos Obtained on Day 3 Cultured in 5% Than 20% Oxygen: A Controlled and Randomized Study Using the Sibling Oocytes. <b>2016</b> , 23, 372-8		6
904	Multinucleation per se is not always sufficient as a marker of abnormality to decide against transferring human embryos. <b>2016</b> , 106, 133-139.e6		21
903	Time-lapse variables and embryo gender: a retrospective analysis of 81 live births obtained following minimal stimulation and single embryo transfer. <b>2016</b> , 33, 589-596		9
902	A randomized controlled, non-inferiority trial of modified natural versus artificial cycle for cryo-thawed embryo transfer. <i>Human Reproduction</i> , <b>2016</b> , 31, 1483-92	5-7	115
901	Effect of embryo morphology and morphometrics on implantation of vitrified day 3 embryos after warming: a retrospective cohort study. <b>2016</b> , 14, 40		7
900	Correlation between aneuploidy, standard morphology evaluation and morphokinetic development in 1730 biopsied blastocysts: a consecutive case series study. <i>Human Reproduction</i> , <b>2016</b> , 31, 2245-54	5-7	156
899	45,X product of conception after preimplantation genetic diagnosis and euploid embryo transfer: evidence of a spontaneous conception confirmed by DNA fingerprinting. <b>2016</b> , 14, 55		4
898	Development of a generally applicable morphokinetic algorithm capable of predicting the implantation potential of embryos transferred on Day 3. <i>Human Reproduction</i> , <b>2016</b> , 31, 2231-44	5-7	109
897	The effect of an immediate frozen embryo transfer following a freeze-all protocol: a retrospective analysis from two centres. <i>Human Reproduction</i> , <b>2016</b> , 31, 2541-2548	5-7	35
896	Association between Number of Formed Embryos, Embryo Morphology and Clinical Pregnancy Rate after Intracytoplasmic Sperm Injection. <b>2016</b> , 38, 465-470		2
895	Intrauterine administration of hCG immediately after oocyte retrieval and the outcome of ICSI: a randomized controlled trial. <i>Human Reproduction</i> , <b>2016</b> , 31, 2520-2526	5-7	22
894	Delayed blastulation, multinucleation, and expansion grade are independently associated with live-birth rates in frozen blastocyst transfer cycles. <b>2016</b> , 106, 1370-1378		62
893	Influence of sperm DNA damage on human preimplantation embryo metabolism. <b>2016</b> , 16, 234-241		17
892	Omics in Reproductive Medicine: Application of Novel Technologies to Improve the IVF Success Rate. <b>2016</b> , 76, 55-95		3
891	Assessment of human embryo development using morphological criteria in an era of time-lapse, algorithms and 'OMICS': is looking good still important?. <b>2016</b> , 22, 704-718		78
890	Influence of embryo culture medium (G5 and HTF) on pregnancy and perinatal outcome after IVF: a multicenter RCT. <i>Human Reproduction</i> , <b>2016</b> , 31, 2219-30	5-7	88

889	Live birth rate and number of blastomeres on day 2 transfer. <b>2016</b> , 33, 1337-1342	2
888	Mutations in PADI6 Cause Female Infertility Characterized by Early Embryonic Arrest. <b>2016</b> , 99, 744-752	101
887	Automatic time-lapse instrument is superior to single-point morphology observation for selecting viable embryos: retrospective study in oocyte donation. <b>2016</b> , 106, 1379-1385.e10	35
886	Novel embryo selection techniques to increase embryo implantation in IVF attempts. <b>2016</b> , 294, 1117-1124	11
885	Embryo selection using time-lapse analysis (Early Embryo Viability Assessment) in conjunction with standard morphology: a prospective two-center pilot study. <i>Human Reproduction</i> , <b>2016</b> , 31, 2450-2457	5-7 36
884	How much have we learned from time-lapse in clinical IVF?. <b>2016</b> , 22, 719-727	26
883	Subclinical Hypothyroidism and Intracytoplasmic Sperm Injection Outcomes. <b>2016</b> , 38, 552-558	7
882	Automatic cleavage detection in H.264 sequence of human embryo development. <b>2016</b> ,	1
881	Laser assisted zona hatching does not lead to immediate impairment in human embryo quality and metabolism. <b>2016</b> , 62, 396-403	15
880	Oocytes with smooth endoplasmic reticulum clusters originate blastocysts with impaired implantation potential. <b>2016</b> , 106, 1718-1724	13
879	Time-lapse imaging of embryos: current evidence supporting its use. <b>2016</b> , 13, 881-883	1
878	The effects of embryo culture media on the birthweight of singletons via fresh or frozen-thawed embryo transfer: a large-scale retrospective study. <b>2016</b> , 16, 270	8
877	Embryo viability indexing using Raman spectroscopy of spent culture media. <b>2016</b> , 49, 458-463	4
876	Observation of human embryonic behavior in vitro by high-resolution time-lapse cinematography. <b>2016</b> , 15, 145-154	7
875	Embryo quality before and after slow freezing: Viability, implantation and pregnancy rates in 627 single frozen-thawed embryo replacement cycles following failure of fresh transfer. <b>2016</b> , 16, 113-9	5
874	Expression patterns of mitochondrial OXPHOS components, mitofusin 1 and dynamin-related protein 1 are associated with human embryo fragmentation. <b>2016</b> , 28, 319-27	5
873	Time-lapse deselection model for human day 3 in vitro fertilization embryos: the combination of qualitative and quantitative measures of embryo growth. <b>2016</b> , 105, 656-662.e1	75
872	Morphokinetic analysis and embryonic prediction for blastocyst formation through an integrated time-lapse system. <b>2016</b> , 105, 376-84.e9	103

871	Effect of cryopreservation on the properties of human endometrial stromal cells used in embryo co-culture systems. <b>2016</b> , 33, 473-80		2
870	Morphokinetics of embryos developed from oocytes matured in vitro. <b>2016</b> , 33, 247-53		11
869	A combination of hydroxypropyl cellulose and trehalose as supplementation for vitrification of human oocytes: a retrospective cohort study. <b>2016</b> , 33, 413-421		22
868	Embryological outcomes in cycles with human oocytes containing large tubular smooth endoplasmic reticulum clusters after conventional in vitro fertilization. <b>2016</b> , 32, 315-8		9
867	Optimal polar bodies angle for higher subsequent embryo viability: a pilot study. <b>2016</b> , 105, 670-675.e2		1
866	Preimplantation genetic testing: polar bodies, blastomeres, trophoctoderm cells, or blastocoelic fluid?. <b>2016</b> , 105, 676-683.e5		61
865	Blastocyst collapse is not an independent predictor of reduced live birth: a time-lapse study. <b>2016</b> , 105, 1476-1483.e3		23
864	First French live-birth after oocyte vitrification performed before chemotherapy for fertility preservation. <b>2016</b> , 33, 663-666		5
863	Revised guidelines for good practice in IVF laboratories (2015). <i>Human Reproduction</i> , <b>2016</b> , 31, 685-6	5:7	112
862	Should pre-implantation genetic screening be implemented to routine clinical practice?. <b>2016</b> , 32, 506-8		36
861	Homocysteine in embryo culture media as a predictor of pregnancy outcome in assisted reproductive technology. <b>2016</b> , 32, 193-5		8
860	Effects of granulocyte-macrophage colony-stimulating factor supplementation in culture medium on embryo quality and pregnancy outcome of women aged over 35 years. <b>2016</b> , 33, 39-47		15
859	Comparison between follicular stimulation and luteal stimulation protocols with clomiphene and HMG in women with poor ovarian response. <b>2016</b> , 32, 74-7		25
858	Exploratory study of the association of steroid profiles in stimulated ovarian follicular fluid with outcomes of IVF treatment. <b>2016</b> , 162, 126-33		18
857	The mitochondrial DNA content of cumulus granulosa cells is linked to embryo quality. <i>Human Reproduction</i> , <b>2017</b> , 32, 607-614	5:7	44
856	A simple and rapid flow cytometry-based assay to identify a competent embryo prior to embryo transfer. <b>2017</b> , 7, 39927		29
855	The accumulation of vitrified oocytes is a strategy to increase the number of euploid available blastocysts for transfer after preimplantation genetic testing. <b>2017</b> , 34, 479-486		25
854	Clinical outcomes after IVF or ICSI using human blastocysts derived from oocytes containing aggregates of smooth endoplasmic reticulum. <b>2017</b> , 34, 337-344		11



853	Sperm quality and paternal age: effect on blastocyst formation and pregnancy rates. <b>2017</b> , 27, 2	35
852	Time-lapse imaging reveals differences in growth dynamics of embryos after in vitro maturation compared with conventional stimulation. <b>2017</b> , 107, 606-612.e3	22
851	GnRH antagonist and letrozole co-treatment in diminished ovarian reserve patients: a proof-of-concept study. <b>2017</b> , 17, 105-110	9
850	Evaluation of in vitro fertilization outcomes using interleukin-8 in culture medium of human preimplantation embryos. <b>2017</b> , 107, 649-656	15
849	The effect of elevated progesterone levels before HCG triggering in modified natural cycle frozen-thawed embryo transfer cycles. <b>2017</b> , 34, 546-554	15
848	Does Bariatric Surgery Improve Assisted Reproductive Technology Outcomes in Obese Infertile Women?. <b>2017</b> , 27, 2106-2112	33
847	Blastocyst Development in a Single Medium Compared to Sequential Media: A Prospective Study With Sibling Oocytes. <b>2017</b> , 24, 1312-1318	10
846	Clinical outcome of cycles with oocyte degeneration after intracytoplasmic sperm injection. <b>2017</b> , 63, 113-119	4
845	Extracellular microRNAs in follicular fluid and their potential association with oocyte fertilization and embryo quality: an exploratory study. <b>2017</b> , 34, 525-533	49
844	Extreme spermatogenesis failure: andrological phenotype and intracytoplasmic sperm injection outcomes. <b>2017</b> , 5, 219-225	8
843	Cumulus cell mitochondrial activity in relation to body mass index in women undergoing assisted reproductive therapy. <b>2017</b> , 7, 141-146	5
842	Bio-equivalent doses of recombinant HCG and recombinant LH during ovarian stimulation result in similar oestradiol output: a randomized controlled study. <b>2017</b> , 35, 232-238	1
841	Telomere length is short in PCOS and oral contraceptive does not affect the telomerase activity in granulosa cells of patients with PCOS. <b>2017</b> , 34, 849-859	16
840	Live birth potential of good morphology and vitrified blastocysts presenting abnormal cell divisions. <b>2017</b> , 17, 144-150	3
839	Frozen-thawed blastocyst transfer in natural cycle: feasibility in everyday clinical practice. <b>2017</b> , 295, 1509-1514	11
838	Temporal validation of a simplified blastocyst grading system. <b>2017</b> , 20, 113-119	1
837	Dysmorphic patterns are associated with cytoskeletal alterations in human oocytes. <i>Human Reproduction</i> , <b>2017</b> , 32, 750-757	5-7 11
836	Obstetric and perinatal outcomes of singletons after single blastocyst transfer: is there any difference according to blastocyst morphology?. <b>2017</b> , 35, 197-207	18



835	Pregnancy rates of day 4 and day 5 embryos after culture in an integrated time-lapse incubator. <b>2017</b> , 15, 37		6
834	Embryo density may affect embryo quality during in vitro culture in a microwell group culture dish. <b>2017</b> , 296, 345-353		8
833	Revisiting the management of recurrent implantation failure through freeze-all policy. <b>2017</b> , 108, 72-77		31
832	Oocyte Grading by Morphological Evaluation. 132-137		
831	Embryo Assessment at the Blastocyst Stage in the IVF Laboratory. 214-220		
830	Raman spectrum: A potential biomarker for embryo assessment during fertilization. <b>2017</b> , 13, 1789-1792		8
829	Human embryo research in Belgium: an overview. <b>2017</b> , 108, 96-107		3
828	Application of microfluidic technologies to human assisted reproduction. <b>2017</b> , 23, 257-268		41
827	Elective embryo transfers on Day 6 reduce implantation compared with transfers on Day 5. <i>Human Reproduction</i> , <b>2017</b> , 32, 1238-1243	5:7	27
826	Non-invasive preimplantation genetic screening using array comparative genomic hybridization on spent culture media: a proof-of-concept pilot study. <b>2017</b> , 34, 583-589		43
825	Relationship of DNA integrity to C633T SNP and ART outcome in infertile couples. <b>2017</b> , 153, 865-876		3
824	Reproductive outcomes of IVF patients with unicornuate uteri. <b>2017</b> , 34, 312-318		14
823	Integrating insulin into single-step culture medium regulates human embryo development in vitro. <b>2017</b> , 107, 405-412		3
822	Implantation rates subsequent to the transfer of embryos produced at different phases during double stimulation of poor ovarian responders. <b>2017</b> , 29, 1178-1183		8
821	Assisted reproduction technique outcomes for fresh versus deferred cryopreserved day-2 embryo transfer: a retrospective matched cohort study. <b>2017</b> , 34, 248-257		10
820	Assessment of embryo morphology and developmental dynamics by time-lapse microscopy: is there a relation to implantation and ploidy?. <b>2017</b> , 108, 722-729		37
819	Impact of 3.5% O culture on embryo development and clinical outcomes: a comparative study. <b>2017</b> , 108, 635-641		4
818	Analysis of the morphological dynamics of blastocysts after vitrification/warming: defining new predictive variables of implantation. <b>2017</b> , 108, 659-666.e4		18

817	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. <b>2017</b> , 108, 1007-1015.e3	24
816	Association between the number of oocytes retrieved and cumulative live birth rate in women aged 35-40 years undergoing long GnRH agonist IVF/ICSI cycles. <b>2017</b> , 296, 1005-1012	13
815	Dehydroepiandrosterone as a potential agent to slow down ovarian aging. <b>2017</b> , 43, 1855-1862	8
814	Effect of oocyte vitrification on embryo quality: time-lapse analysis and morphokinetic evaluation. <b>2017</b> , 108, 491-497.e3	32
813	Blastocyst utilization rates after continuous culture in two commercial single-step media: a prospective randomized study with sibling oocytes. <b>2017</b> , 34, 1377-1383	11
812	Embriones multinucleados: criterios para la transferencia. <b>2017</b> , 4, 96-102	
811	Time-lapse culture with morphokinetic embryo selection improves pregnancy and live birth chances and reduces early pregnancy loss: a meta-analysis. <b>2017</b> , 35, 511-520	96
810	Inositol supplementation in women with polycystic ovary syndrome undergoing intracytoplasmic sperm injection: a systematic review and meta-analysis of randomized controlled trials. <b>2017</b> , 35, 529-535	22
809	The Vienna consensus: report of an expert meeting on the development of ART laboratory performance indicators. <b>2017</b> , 35, 494-510	116
808	Clinical validation of pinopode as a marker of endometrial receptivity: a randomized controlled trial. <b>2017</b> , 108, 513-517.e2	19
807	Increased bone morphogenetic protein-6 in follicular fluid and granulosa cells may correlate with fertilization and embryo quality in humans. <b>2017</b> , 14, 1171-1176	5
806	The Effect of Instant Urinary Catheterization on Pregnancy Outcomes after Intracytoplasmic Sperm Injection and Embryo Transfer. <b>2017</b> , 82, 563-568	
805	Humid versus dry incubator: a prospective, randomized, controlled trial. <b>2017</b> , 108, 277-283	25
804	Live births after embryo selection using morphokinetics versus conventional morphology: a retrospective analysis. <b>2017</b> , 35, 407-416	30
803	Oxidative Stress Markers in GnRH Agonist and Antagonist Protocols in IVF. <b>2017</b> , 36, 163-170	9
802	Oocyte polarized light microscopy, assay of specific follicular fluid metabolites, and gene expression in cumulus cells as different approaches to predict fertilization efficiency after ICSI. <b>2017</b> , 15, 47	11
801	Oxidative stress and polycystic ovary syndrome: evaluation during ovarian stimulation for ICSI. <b>2016</b> ,	12
800	How do laboratory embryo transfer techniques affect IVF outcomes? A review of current literature. <b>2017</b> , 20, 3-13	5

799	Pregnancy after intracytoplasmic sperm injection following extended sperm preparation and hormone therapy in an azoospermic man with maturation arrest and microlithiasis: a case report and literature review. <b>2017</b> , 49, e12665	4
798	Are extremely high progesterone levels still an issue in IVF?. <b>2017</b> , 40, 69-75	13
797	Protection of cumulus cells following dehydroepiandrosterone supplementation. <b>2017</b> , 33, 100-104	11
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795	The Vienna consensus: report of an expert meeting on the development of art laboratory performance indicators. <b>2017</b> , 2017, hox011	28
794	Blastocyst classification systems used in Latin America: is a consensus possible?. <b>2017</b> , 21, 222-229	6
793	The Application of Dehydroepiandrosterone on Improving Mitochondrial Function and Reducing Apoptosis of Cumulus Cells in Poor Ovarian Responders. <b>2017</b> , 14, 585-594	17
792	Effect of women's age on embryo morphology, cleavage rate and competence-A multicenter cohort study. <b>2017</b> , 12, e0172456	26
791	Reassessing the feasibility of the zygote score for predicting embryo viability in IVF/ICSI using the GnRH antagonist protocol compared to the long protocol. <b>2017</b> , 12, e0171465	3
790	ICSI diagnostic: a way to prevent total fertilization failure after 4 unsuccessful IUI. <b>2017</b> , 27, 18	1
789	A preliminary evaluation of influence of body mass index on in vitro fertilization outcome in non-obese endometriosis patients. <b>2017</b> , 17, 112	11
788	A new insight into male fertility preservation for patients with completely immotile spermatozoa. <b>2017</b> , 15, 74	6
787	Effect of day 3 embryo morphometrics and morphokinetics on survival and implantation after slow freezing-thawing and after vitrification-warming: a retrospective cohort study. <b>2017</b> , 15, 79	4
786	Serum periostin levels in early in pregnancy are significantly altered in women with miscarriage. <b>2017</b> , 15, 87	4
785	Does oval oocyte have an impact on embryo development in in vitro fertilization?. <b>2017</b> , 21, 15-18	4
784	Effect of sperm DNA fragmentation on embryo development: clinical and biological aspects. <b>2017</b> , 21, 343-350	50
783	The addition of a low-quality embryo as part of a fresh day 3 double embryo transfer does not improve ongoing pregnancy rates. <b>2017</b> , 2017, hox020	4
782	Comparison of in vitro fertilization outcomes in ICSI cycles after human sperm preparation by density gradient centrifugation and direct micro swim-up without centrifugation. <b>2017</b> , 21, 89-93	12

781	Blastocyst culture in the Era of PGS and FreezeAlls: Is a 'C' a failing grade?. <b>2017</b> , 2017, hox017	20
780	Day 4 good morula embryo transfer provided compatible live birth rate with day 5 blastocyst embryo in fresh IVF/ET cycles. <b>2018</b> , 57, 52-57	9
779	The influence of thyroid autoimmunity on embryo quality in women undergoing assisted reproductive technology. <b>2018</b> , 34, 752-755	21
778	Sperm retrieval by microdissection testicular sperm extraction and intracytoplasmic sperm injection outcomes in nonobstructive azoospermic patients with Klinefelter syndrome. <b>2018</b> , 50, e12983	14
777	The Embryology Interest Group: updating ASEBIR's morphological scoring system for early embryos, morulae and blastocysts. <b>2018</b> , 5, 42-54	15
776	Combined analysis of endometrial thickness and pattern in predicting clinical outcomes of frozen embryo transfer cycles with morphological good-quality blastocyst: A retrospective cohort study. <b>2018</b> , 97, e9577	16
775	Effect of morphokinetics and morphological dynamics of cleavage stage on embryo developmental potential: A time-lapse study. <b>2018</b> , 57, 76-82	14
774	Pretreatment with coenzyme Q10 improves ovarian response and embryo quality in low-prognosis young women with decreased ovarian reserve: a randomized controlled trial. <b>2018</b> , 16, 29	80
773	Influence of endometrial thickness on pregnancy rates in modified natural cycle frozen-thawed embryo transfer. <b>2018</b> , 97, 808-815	8
772	Should extended blastocyst culture include Day 7?. <i>Human Reproduction</i> , <b>2018</b> , 33, 991-997	5.7 22
771	Are cleavage anomalies, multinucleation, or specific cell cycle kinetics observed with time-lapse imaging predictive of embryo developmental capacity or ploidy?. <b>2018</b> , 109, 665-674	55
770	Sperm morphological normality under high magnification is correlated to male infertility and predicts embryo development. <b>2018</b> , 6, 420	3
769	Effects of different open cryo-carriers on embryo survival and clinical outcome in frozen embryo transfer cycle patients. <b>2018</b> , 64, 138-145	3
768	Toxic elements in hair and in vitro fertilization outcomes: A prospective cohort study. <b>2018</b> , 77, 43-52	9
767	Endometrial thickness as a predictor of the reproductive outcomes in fresh and frozen embryo transfer cycles: A retrospective cohort study of 1512 IVF cycles with morphologically good-quality blastocyst. <b>2018</b> , 97, e9689	50
766	Blastulation timing is associated with differential mitochondrial content in euploid embryos. <b>2018</b> , 35, 711-720	15
765	A higher incidence of cleavage failure in oocytes containing smooth endoplasmic reticulum clusters. <b>2018</b> , 35, 899-905	11
764	Parallel derivation of isogenic human primed and naive induced pluripotent stem cells. <b>2018</b> , 9, 360	70

763	High-quality human preimplantation embryos actively influence endometrial stromal cell migration. <b>2018</b> , 35, 659-667		15
762	Artificial cryopreserved embryo transfer cycle success depends on blastocyst developmental rate and progesterone timing. <b>2018</b> , 36, 269-276		8
761	Low versus high volume of culture medium during embryo transfer: a randomized clinical trial. <b>2018</b> , 35, 693-699		4
760	IVF Transfer of Fresh or Frozen Embryos in Women without Polycystic Ovaries. <b>2018</b> , 378, 137-147		112
759	Focused time-lapse analysis reveals novel aspects of human fertilization and suggests new parameters of embryo viability. <i>Human Reproduction</i> , <b>2018</b> , 33, 23-31	5-7	54
758	Complex chromosomal aberrations in a fetus originating from oocytes with smooth endoplasmic reticulum (SER) aggregates. <b>2018</b> , 64, 283-290		4
757	Presence of aggregates of smooth endoplasmic reticulum in MII oocytes affects oocyte competence: molecular-based evidence. <b>2018</b> , 24, 310-317		7
756	Comparing 36.5°C with 37°C for human embryo culture: a prospective randomized controlled trial. <b>2018</b> , 36, 620-626		11
755	Role of ICSI in Non-male Factor Cycles as the Number of Oocytes Retrieved Decreases from Four to One. <b>2018</b> , 38, 131-136		5
754	Embryo culture using a time-lapse monitoring system improves live birth rates compared with a conventional culture system: a prospective cohort study. <b>2018</b> , 21, 255-262		8
753	Extended culture of poor-quality supernumerary embryos improves ART outcomes. <b>2018</b> , 35, 311-319		9
752	Reproductive Outcomes of Segmented In Vitro Fertilization in Patients Diagnosed with Endometriomas. <b>2018</b> , 25, 105-110		6
751	Chromosomal polymorphisms are independently associated with multinucleated embryo formation. <b>2018</b> , 35, 149-156		5
750	No advantage of fresh blastocyst versus cleavage stage embryo transfer in women under the age of 39: a randomized controlled study. <b>2018</b> , 35, 457-465		9
749	Randomized controlled trial comparing embryo culture in two incubator systems: G185 K-System versus EmbryoScope. <b>2018</b> , 109, 302-309.e1		13
748	Developmental competence of -matured human oocytes obtained from pregnant and non-pregnant women. <b>2018</b> , 45, 189-194		2
747	Predicting live birth by combining cleavage and blastocyst-stage time-lapse variables using a hierarchical and a data mining-based statistical model. <b>2018</b> , 18, 355-360		5
746	Spent embryo culture medium metabolites are related to the in vitro attachment ability of blastocysts. <b>2018</b> , 8, 17025		9

745	Extracellular microRNAs profile in human follicular fluid and IVF outcomes. <b>2018</b> , 8, 17036	40
744	Early blastulation of day 4 embryo correlates with the increased euploid rate of preimplantation genetic screening cycles. <b>2018</b> , 57, 858-861	
743	Evaluation of antioxidant status and oxidative stress markers in follicular fluid for human in vitro fertilization outcome. <b>2018</b> , 17, 481-486	16
742	Assessment of Prostaglandin-Endoperoxide Synthase 2 and Versican gene expression profile from the cumulus cells: association with better in vitro fertilization outcomes. <b>2018</b> , 11, 84	2
741	Oral versus transdermal oestrogen delivery for endometrial preparation before embryo transfer: a prospective, comparative, randomized clinical trial. <b>2018</b> , 37, 693-702	4
740	Long-read sequencing identified a causal structural variant in an exome-negative case and enabled preimplantation genetic diagnosis. <b>2018</b> , 155, 32	29
739	Optimal endometrial thickness to maximize live births and minimize pregnancy losses: Analysis of 25,767 fresh embryo transfers. <b>2018</b> , 37, 542-548	36
738	External validation of a prediction model to select the best day-three embryo for transfer in in vitro fertilization or intracytoplasmic sperm injection procedures. <b>2018</b> , 110, 917-924	2
737	Early blastulation (EB) of day 4 embryo is predictive of outcomes in single embryo transfer (SET) cycles. <b>2018</b> , 57, 705-708	2
736	Congenital anomalies in infants conceived by infertile women through assisted reproductive technology: A cohort study 2004-2014. <b>2018</b> , 16, 3179-3185	5
735	Adverse effect of paternal hepatitis B virus infection on clinical pregnancy after frozen-thawed embryo transfer. <b>2018</b> , 298, 827-832	1
734	Dehydroepiandrosterone (DHEA) supplementation improves in vitro fertilization outcomes of poor ovarian responders, especially in women with low serum concentration of DHEA-S: a retrospective cohort study. <b>2018</b> , 16, 90	24
733	The spindle of oocytes observed by polarized light microscope can predict embryo quality. <b>2018</b> , 8, 131	
732	Clinical Outcomes of Assisted Reproductive Techniques Using Cryopreserved Gametes and Embryos in Human Medicine. <b>2018</b> ,	
731	Impact of polar body biopsy on embryo morphokinetics-back to the roots in preimplantation genetic testing?. <b>2018</b> , 35, 1521-1528	2
730	Time-lapse systems for embryo incubation and assessment in assisted reproduction. <b>2018</b> , 5, CD011320	31
729	Time-lapse imaging <b>2018</b> , 16, 53-55	1
728	Time-lapse imaging algorithms rank human preimplantation embryos according to the probability of live birth. <b>2018</b> , 37, 304-313	24

727	Follicular fluid vascular endothelial growth factor is associated with type of infertility and interferon alpha correlates with endometrial thickness in natural cycle in vitro fertilization. <b>2018</b> , 18, 289-294		3
726	Assessment of developmental potential of human single pronucleated zygotes derived from conventional in vitro fertilization. <b>2018</b> , 35, 1377-1384		5
725	Artificial oocyte activation with SrCl <sub>2</sub> or calcimycin after ICSI improves clinical and embryological outcomes compared with ICSI alone: results of a randomized clinical trial. <i>Human Reproduction</i> , <b>2018</b> , 33, 1636-1644	5:7	23
724	Are computational applications the "crystal ball" in the IVF laboratory? The evolution from mathematics to artificial intelligence. <b>2018</b> , 35, 1545-1557		21
723	Oocyte Treatment From Retrieval to Insemination. <b>2018</b> , 143-146		
722	Analysis of Fertilization. <b>2018</b> , 163-171		
721	Reproductive outcomes in women with unicornuate uterus undergoing in vitro fertilization: a nested case-control retrospective study. <b>2018</b> , 16, 64		15
720	Evidence-Based Approaches to Embryo Selection by Morphology and Kinetics. <b>2018</b> , 169-190		1
719	The deferred embryo transfer strategy improves cumulative pregnancy rates in endometriosis-related infertility: A retrospective matched cohort study. <b>2018</b> , 13, e0194800		27
718	Abnormal sperm concentration and motility as well as advanced paternal age compromise early embryonic development but not pregnancy outcomes: a retrospective study of 1266 ICSI cycles. <b>2018</b> , 35, 1897-1903		20
717	Assistance médicale à la procréation : techniques actuelles et nouveaux horizons. <b>2018</b> , 2018, 43-51		
716	Efficacy and safety of Ding-Kun-Dan for female infertility patients with predicted poor ovarian response undergoing in vitro fertilization/intracytoplasmic sperm injection: study protocol for a randomized controlled trial. <b>2018</b> , 19, 124		5
715	Cytoplasmic abnormalities of mature oocytes have a significant effect on fertilization in Bologna poor responders. <b>2018</b> , 48, 750-758		1
714	A cost-effectiveness analysis of freeze-only or fresh embryo transfer in IVF of non-PCOS women. <i>Human Reproduction</i> , <b>2018</b> , 33, 1907-1914	5:7	20
713	Murine embryos exposed to human endometrial MSCs-derived extracellular vesicles exhibit higher VEGF/PDGF AA release, increased blastomere count and hatching rates. <b>2018</b> , 13, e0196080		25
712	Sperm DNA fragmentation index, as measured by sperm chromatin dispersion, might not predict assisted reproductive outcome. <b>2018</b> , 57, 493-498		19
711	Luteal Phase Ovarian Stimulation May Improve Oocyte Retrieval and Oocyte Quality in Poor Ovarian Responders Undergoing In Vitro Fertilization: Preliminary Results from a Single-Center Prospective Pilot Study. <b>2018</b> , 35, 847-856		21
710	Emerging Topics in Reproduction. <b>2018</b> ,		



709	The Gametotoxic Effects of the Endometrioma Content: Insights From a Parthenogenetic Human Model. <b>2019</b> , 26, 573-579		1
708	Gamete and Embryo Manipulation. <b>2019</b> , 823-856.e14		1
707	A Case Series on Platelet-Rich Plasma Revolutionary Management of Poor Responder Patients. <b>2019</b> , 84, 99-106		42
706	Is growth hormone administration essential for in vitro fertilization treatment of female patients with growth hormone deficiency?. <b>2019</b> , 65, 71-74		9
705	The Influence of Day 2 Blastomere Symmetry on Blastocyst Grade and Ploidy Status. <b>2019</b> , 01, 115-118		2
704	Biphasic in vitro maturation (CAPA-IVM) specifically improves the developmental capacity of oocytes from small antral follicles. <b>2019</b> , 36, 2135-2144		35
703	Inspecting life: professional vision in assisted reproduction technology. <b>2019</b> , 21, 383-396		1
702	Perinatal outcomes of singletons following vitrification versus slow-freezing of embryos: a multicenter cohort study using propensity score analysis. <i>Human Reproduction</i> , <b>2019</b> , 34, 1788-1798	5-7	16
701	Investigating the effect of lifestyle risk factors upon number of aspirated and mature oocytes in in vitro fertilization cycles: Interaction with antral follicle count. <b>2019</b> , 14, e0221015		6
700	Genes for anti-Müllerian hormone and androgen receptor are underexpressed in human cumulus cells surrounding morphologically highly graded oocytes. <b>2019</b> , 7, 2050312119865137		3
699	Endometriosis accelerates synchronization of early embryo cell divisions but does not change morphokinetic dynamics in endometriosis patients. <b>2019</b> , 14, e0220529		5
698	Performance of Day 5 KIDScore <sup>™</sup> morphokinetic prediction models of implantation and live birth after single blastocyst transfer. <b>2019</b> , 36, 2279-2285		14
697	Effect on clinical and neonatal outcomes of blastocelic microsuction prior to vitrification. <b>2019</b> , 18, 284-289		3
696	Effect of vitamin D status on normal fertilization rate following in vitro fertilization. <b>2019</b> , 17, 59		19
695	Effects of resveratrol on VEGF & HIF1 genes expression in granulosa cells in the angiogenesis pathway and laboratory parameters of polycystic ovary syndrome: a triple-blind randomized clinical trial. <b>2019</b> , 36, 1701-1712		26
694	Cleavage stage mitochondrial DNA is correlated with preimplantation human embryo development and ploidy status. <b>2019</b> , 36, 1847-1854		5
693	Cell-free mitochondrial DNA in human follicular fluid: a promising bio-marker of blastocyst developmental potential in women undergoing assisted reproductive technology. <b>2019</b> , 17, 54		9
692	Frozen blastocyst embryo transfer vs. frozen cleavage-stage embryo transfer in couples with recurrent implantation failure: a cohort study. <b>2021</b> , 24, 284-289		6



691	Prokineticin 1 is a new biomarker of human oocyte competence: expression and hormonal regulation throughout late folliculogenesis. <b>2019</b> , 101, 832-841			2
690	Predicting Embryo Developmental Potential and Viability Using Automated Time-Lapse Analysis (EevaTest). <b>2019</b> , 521-533			
689	Sperm chromatin condensation defects, but neither DNA fragmentation nor aneuploidy, are an independent predictor of clinical pregnancy after intracytoplasmic sperm injection. <b>2019</b> , 36, 1387-1399			5
688	Traditional Embryo Morphology Evaluation: From the Zygote to the Blastocyst Stage. <b>2019</b> , 493-504			
687	Oocyte Denuding. <b>2019</b> , 133-145			1
686	The Role of Mitochondria in the Establishment of Developmental Competence in Early Human Development. <b>2019</b> , 897-913			
685	Molecular Mining of Follicular Fluid for Reliable Biomarkers of Human Oocyte and Embryo Developmental Competence. <b>2019</b> , 929-937			
684	Feasibility of predicting live birth by combining conventional embryo evaluation with artificial intelligence applied to a blastocyst image in patients classified by age. <b>2019</b> , 18, 344-356			11
683	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
682	Systemic oxidative stress as a possible mechanism underlying the pathogenesis of mild endometriosis-related infertility. <b>2019</b> , 39, 785-794			4
681	Automation, Artificial Intelligence and Innovations in the Future of IVF. <b>2019</b> , 847-860			
680	Serum estradiol level on the day of ovulation trigger and pregnancy outcomes in in-vitro fertilisation-intracytoplasmic sperm injection cycles. <b>2019</b> , 8, 3834			
679	Comparison of the assisted reproductive technology outcomes between conventional IVF and ICSI with donor oocytes in normozoospermic patients. <b>2019</b> , 1-7			1
678	Developmental potential of surplus morulas with delayed and/or incomplete compaction after freezing-thawing procedures. <b>2019</b> , 17, 87			3
677	Effect of vitamin D supplementation on assisted reproduction technology (ART) outcomes and underlying biological mechanisms: protocol of a randomized clinical controlled trial. The "supplementation of vitamin D and reproductive outcome" (SUNDRO) study. <b>2019</b> , 19, 395			15
676	Deconstructing the myth of poor prognosis for fast-cleaving embryos on day 3. Is it time to change the consensus?. <b>2019</b> , 36, 2299-2305			7
675	Value of endometrial echo pattern transformation after hCG trigger in predicting IVF pregnancy outcome: a prospective cohort study. <b>2019</b> , 17, 74			8
674	Mediterranean diet and outcomes of assisted reproduction: an Italian cohort study. <b>2019</b> , 221, 627.e1-627.e14			14

673	Pregnancy and neonatal outcomes of artificial oocyte activation in patients undergoing frozen-thawed embryo transfer: a 6-year population-based retrospective study. <b>2019</b> , 300, 1083-1092		12
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671	Cytokines hold promise for human embryo culture in vitro: results of a randomized clinical trial. <b>2019</b> , 112, 849-857.e1		5
670	Multi-Task Deep Learning With Dynamic Programming for Embryo Early Development Stage Classification From Time-Lapse Videos. <b>2019</b> , 7, 122153-122163		13
669	A comparison of morphokinetic markers predicting blastocyst formation and implantation potential from two large clinical data sets. <b>2019</b> , 36, 637-646		11
668	Dual stimulation using corifollitropin alfa in 54 Bologna criteria poor ovarian responders - a case series. <b>2019</b> , 38, 677-682		22
667	Association between outdoor air pollution during in vitro culture and the outcomes of frozen-thawed embryo transfer. <i>Human Reproduction</i> , <b>2019</b> , 34, 441-451	5-7	13
666	Live birth rates with a freeze-only strategy versus fresh embryo transfer: secondary analysis of a randomized clinical trial. <b>2019</b> , 38, 387-396		5
665	Assisted oocyte activation significantly increases fertilization and pregnancy outcome in patients with low and total failed fertilization after intracytoplasmic sperm injection: a 17-year retrospective study. <b>2019</b> , 112, 266-274		26
664	Effect of intrauterine injection of human chorionic gonadotropin before frozen-thawed embryo transfer on pregnancy outcomes in women with endometriosis. <b>2019</b> , 47, 2873-2880		4
663	Flexible GnRH Antagonist Protocol versus Progestin-primed Ovarian Stimulation (PPOS) Protocol in Patients with Polycystic Ovary Syndrome: Comparison of Clinical Outcomes and Ovarian Response. <b>2019</b> , 39, 431-436		10
662	The clinicians's dilemma with mosaicism-an insight from inner cell mass biopsies. <i>Human Reproduction</i> , <b>2019</b> , 34, 998-1010	5-7	32
661	Deep learning as a predictive tool for fetal heart pregnancy following time-lapse incubation and blastocyst transfer. <i>Human Reproduction</i> , <b>2019</b> , 34, 1011-1018	5-7	96
660	Non-invasive mitochondrial DNA quantification on Day 3 predicts blastocyst development: a prospective, blinded, multi-centric study. <b>2019</b> , 25, 527-537		10
659	Pig in vitro fertilization: Where are we and where do we go?. <b>2019</b> , 137, 113-121		23
658	Euploid blastocysts implant irrespective of their morphology after NGS-(PGT-A) testing in advanced maternal age patients. <b>2019</b> , 36, 1623-1629		9
657	Sperm DNA fragmentation is correlated with poor embryo development, lower implantation rate, and higher miscarriage rate in reproductive cycles of non-male factor infertility. <b>2019</b> , 112, 483-490		47
656	Modified natural cycle IVF versus conventional stimulation in advanced-age Bologna poor responders. <b>2019</b> , 39, 698-703		14

655	Maternal body mass index affects embryo morphokinetics: a time-lapse study. <b>2019</b> , 36, 1109-1116	21
654	Blastomere cleavage plane orientation and the tetrahedral formation are associated with increased probability of a good-quality blastocyst for cryopreservation or transfer: a time-lapse study. <b>2019</b> , 111, 1159-1168.e1	5
653	Selection of Single Potential Embryo to Improve the Success Rate of Implantation in IVF Procedure using Machine Learning Techniques. <b>2019</b> ,	4
652	Inheritance of imbalances in recurrent chromosomal translocation t(11;22): clarification by PGT-SR and sperm-FISH analysis. <b>2019</b> , 39, 40-48	1
651	Comparison of the effect of two combinations of myo-inositol and D-chiro-inositol in women with polycystic ovary syndrome undergoing ICSI: a randomized controlled trial. <b>2019</b> , 35, 695-700	19
650	The influence of clinical and laboratory factors on the formation of monopronucleated zygotes after intracytoplasmic sperm injection (ICSI). <b>2019</b> , 27, 64-68	2
649	The effectiveness of ICSI versus conventional IVF in couples with non-male factor infertility: study protocol for a randomised controlled trial. <b>2019</b> , 2019, hoz006	9
648	Chromosome screening using culture medium of embryos fertilised in vitro: a pilot clinical study. <b>2019</b> , 17, 73	18
647	Closed embryo culture system improved embryological and clinical outcome for single vitrified-warmed blastocyst transfer: A single-center large cohort study. <b>2019</b> , 19, 139-144	2
646	Identification of small non-coding RNAs as sperm quality biomarkers for in vitro fertilization. <b>2019</b> , 5, 20	39
645	Comparison of the pregnancy and obstetric outcomes between single cleavage-stage embryo transfer and single blastocyst transfer by time-lapse selection of embryos. <b>2019</b> , 35, 792-795	5
644	Novel noninvasive embryo selection algorithm combining time-lapse morphokinetics and oxidative status of the spent embryo culture medium. <b>2019</b> , 111, 918-927.e3	9
643	Prediction of live birth and cumulative live birth rates in freeze-all-IVF treatment of a general population. <b>2019</b> , 36, 685-696	10
642	Assessing Embryo Morphology to Enhance Successful Selection and Transfer. <b>2019</b> , 269-279	
641	Is it time to reconsider how to manage oocytes affected by smooth endoplasmic reticulum aggregates?. <i>Human Reproduction</i> , <b>2019</b> , 34, 591-600	5-7 9
640	Association between progesterone to number of mature oocytes index and live birth in GnRH antagonist protocols. <b>2019</b> , 38, 901-907	6
639	In vitro production of horse embryos predisposes to micronucleus formation, whereas time to blastocyst formation affects likelihood of pregnancy. <b>2019</b> , 31, 1830-1839	3
638	Live Birth Rate After Transfer of Fresh or Frozen Poor Quality Day-3 Embryos Only. <b>2019</b> , 01, 161-168	0

637	Time-lapse systems for embryo incubation and assessment in assisted reproduction. <b>2019</b> , 5, CD011320	34
636	Live birth in male de novo Kallmann syndrome after cross-generational genetic sequencing. <b>2019</b> , 36, 2481-2484	1
635	Levels of caspase-3 and histidine-rich glycoprotein in the embryo secretome as biomarkers of good-quality day-2 embryos and high-quality blastocysts. <b>2019</b> , 14, e0226419	9
634	Dehydroepiandrosterone Supplementation Improves the Outcomes of Fertilization Cycles in Older Patients With Diminished Ovarian Reserve. <b>2019</b> , 10, 800	6
633	A Strength, Weaknesses, Opportunities and Threats analysis on time lapse. <b>2019</b> , 31, 148-155	5
632	Time of morulation and trophectoderm quality are predictors of a live birth after euploid blastocyst transfer: a multicenter study. <b>2019</b> , 112, 1080-1093.e1	16
631	Add-ons in the laboratory: hopeful, but not always helpful. <b>2019</b> , 112, 994-999	9
630	Risk of ovarian torsion is reduced in GnRH agonist triggered freeze-all cycles: a retrospective cohort study. <b>2019</b> , 39, 212-217	8
629	Non-invasive embryo evaluation and selection using time-lapse monitoring: Results of a randomized controlled study. <b>2019</b> , 233, 58-63	11
628	Prediction of implantation after blastocyst transfer in in vitro fertilization: a machine-learning perspective. <b>2019</b> , 111, 318-326	35
627	Extracellular vesicles derived from endometrial human mesenchymal stem cells enhance embryo yield and quality in an aged murine model <b>2019</b> , 100, 1180-1192	23
626	Morphokinetic characteristics of embryos derived from in-vitro-matured oocytes and their in-vivo-matured siblings after ovarian stimulation. <b>2019</b> , 38, 7-11	4
625	Chromosome constitution of equal-sized three-cell embryos using next-generation sequencing technology. <b>2019</b> , 36, 307-314	0
624	The Deferred Embryo Transfer Strategy Seems Not to be a Good Option After Repeated IVF/ICSI Cycle Failures. <b>2019</b> , 26, 1210-1217	2
623	Single best euploid versus single best unknown-ploidy blastocyst frozen embryo transfers: a randomized controlled trial. <b>2019</b> , 36, 629-636	28
622	Effect of oocyte morphology on post-warming survival and embryo development in vitrified autologous oocytes. <b>2019</b> , 38, 313-320	5
621	The mitochondrial DNA content of cumulus cells may help predict embryo implantation. <b>2019</b> , 36, 223-228	15
620	BMP4 plays a role in apoptosis during human preimplantation development. <b>2019</b> , 86, 53-62	9

619	A successful healthy childbirth and an ongoing evolutive pregnancy in a case of partial globozoospermia by hyaluronic acid sperm selection. <b>2019</b> , 51, e13178		4
618	Deoxyribonucleic acid detection in blastocoelic fluid: a new predictor of embryo ploidy and viable pregnancy. <b>2019</b> , 111, 77-85		21
617	Correlation of human telomerase reverse transcriptase single nucleotide polymorphisms with in vitro fertilisation outcomes. <b>2019</b> , 36, 517-527		1
616	What was the fate of human embryos following long-term cryopreservation (12 years) and frozen embryo transfer?. <i>Human Reproduction</i> , <b>2019</b> , 34, 52-55	5-7	8
615	Cumulative live birth rates and perinatal outcomes with the use of time-lapse imaging incubators for embryo culture: a retrospective cohort study of 1882 ART cycles. <b>2019</b> , 126, 280-286		15
614	Assessing efficacy of day 3 embryo time-lapse algorithms retrospectively: impacts of dataset type and confounding factors. <b>2019</b> , 22, 182-190		19
613	A pilot study comparing corifollitropin alfa associated with hp-HMG versus high dose rFSH antagonist protocols for ovarian stimulation in poor responders. <b>2020</b> , 23, 93-100		0
612	Fully human glyco-optimized recombinant FSH (follitropin epsilon) - a randomized, comparator-controlled phase II clinical trial. <b>2020</b> , 40, 331-341		5
611	Absence of correlation between follicular fluid volume and follicular granulocyte colony-stimulating factor, a predictor of embryo implantation and successful delivery. <b>2020</b> , 36, 268-272		2
610	Ambient outdoor air pollutants and sex ratio of singletons born after in vitro fertilization: the effect of single blastocyst transfer. <b>2020</b> , 113, 140-148.e2		2
609	Large-for-gestational age is male-gender dependent in artificial frozen embryo transfers cycles: a cohort study of 1295 singleton live births. <b>2020</b> , 40, 134-141		3
608	High dose of d-chiro-inositol improves oocyte quality in women with polycystic ovary syndrome undergoing ICSI: a randomized controlled trial. <b>2020</b> , 36, 398-401		10
607	Sperm proteomic changes associated with early embryo quality after ICSI. <b>2020</b> , 40, 700-710		2
606	Cell number considerations for blastocyst transfer in younger patients. <b>2020</b> , 37, 619-627		
605	Telomere Length and Telomerase Activity in Immature Oocytes and Cumulus Cells of Women with Polycystic Ovary Syndrome. <b>2020</b> , 27, 1293-1303		7
604	The proliferative phase endometrium in IVF/ICSI: an in-cycle molecular analysis predictive of the outcome following fresh embryo transfer. <i>Human Reproduction</i> , <b>2020</b> , 35, 130-144	5-7	2
603	The effect of ICSI-related procedural timings and operators on the outcome. <i>Human Reproduction</i> , <b>2020</b> , 35, 32-43	5-7	18
602	X chromosome inactivation in human development. <b>2020</b> , 147,		42

601	Live births after oocyte in vitro maturation with a prematuration step in women with polycystic ovary syndrome. <b>2020</b> , 37, 347-357	26
600	Mitochondrial dynamics and interorganellar communication in the development and dysmorphism of mammalian oocytes. <b>2020</b> , 167, 257-266	8
599	Alternative patterns of partial embryo compaction: prevalence, morphokinetic history and possible implications. <b>2020</b> , 40, 347-354	7
598	Time-lapse imaging of cytoplasmic strings at the blastocyst stage suggests their association with spontaneous blastocoel collapse. <b>2020</b> , 40, 191-199	3
597	Do human embryos have the ability of self-correction?. <b>2020</b> , 18, 98	14
596	Comparison of GnRH-a Prolonged Protocol and Short GnRH-a Long Protocol in Patients with Thin Endometrium for Assisted Reproduction: A Retrospective Cohort Study. <b>2020</b> , 14, 3673-3682	4
595	Comparative secretome profile analysis of cultured immortalized human endometrial stromal cells supplemented with implanted versus nonimplanted blastocyst-conditioned medium: A preliminary analysis. <b>2020</b> , 46, 1809-1818	
594	Effect of equilibration time on clinical and neonatal outcomes in human blastocysts vitrification. <b>2020</b> , 19, 270-276	2
593	Embryo morphokinetics analysis and reproductive outcomes with assisted oocyte activation by a calcium ionophore after prior fertilization failure. A multicentric retrospective study. <b>2020</b> , 7, 89-97	
592	Follow-up in the field of reproductive medicine: an ethical exploration. <b>2020</b> , 41, 1144-1150	0
591	Progesterone Intramuscularly or Vaginally Administration May Not Change Live Birth Rate or Neonatal Outcomes in Artificial Frozen-Thawed Embryo Transfer Cycles. <b>2020</b> , 11, 539427	4
590	Evaluating the value of day 0 of an ICSI cycle on indicating laboratory outcome. <b>2020</b> , 10, 19325	2
589	The continuum of ovarian response leading to BIRTH, a real world study of ART in Spain. <b>2020</b> , 6, 13	2
588	Endometriosis Lowers the Cumulative Live Birth Rates in IVF by Decreasing the Number of Embryos but Not Their Quality. <b>2020</b> , 9,	10
587	Medroxyprogesterone acetate used in ovarian stimulation is associated with reduced mature oocyte retrieval and blastocyst development: a matched cohort study of 825 freeze-all IVF cycles. <b>2020</b> , 37, 2337-2345	1
586	Pretreatment with dienogest in women with endometriosis undergoing IVF after a previous failed cycle. <b>2020</b> , 41, 859-868	11
585	Pregnancy and neonatal outcomes of morphologically grade CC blastocysts: are they of clinical value?. <b>2020</b> , 302, 1511-1521	2
584	The impact of accurately timed mid-luteal endometrial injury in nulligravid women undergoing their first or second embryo transfer. <b>2021</b> , 190, 1071-1077	

583	IVF outcomes in patients with a history of bariatric surgery: a multicenter retrospective cohort study. <i>Human Reproduction</i> , <b>2020</b> , 35, 2755-2762	5-7	9
582	Assessment of uterine activity during IVF by quantitative ultrasound imaging: a pilot study. <b>2020</b> , 41, 1045-1053		2
581	Growth hormone alleviates oxidative stress and improves oocyte quality in Chinese women with polycystic ovary syndrome: a randomized controlled trial. <b>2020</b> , 10, 18769		8
580	Improvement instead of stability in embryo quality between day 3-5: A possible extra predictor for blastocyst selection. <b>2020</b> , 253, 198-205		2
579	Strictly selected Mono- and non-pronuclear blastocysts could result in appreciable clinical outcomes in IVF cycles. <b>2020</b> , 1-8		2
578	Degenerated oocyte in the cohort adversely affects IVF outcome. <b>2020</b> , 13, 109		2
577	The effect of Day 3 cell number on pregnancy outcomes in vitrified-thawed single blastocyst transfer cycles. <i>Human Reproduction</i> , <b>2020</b> , 35, 2478-2487	5-7	1
576	Randomized study of G-TL and global media for blastocyst culture in the EmbryoScope: morphokinetics, pregnancy, and live births after single-embryo transfer. <b>2020</b> , 114, 1207-1215		4
575	Role of diagnostic intracytoplasmic sperm injection (ICSI) in the management of genetically determined zona pellucida-free oocytes during fertilization: a case report. <b>2020</b> , 28, 519-523		1
574	Effect of a Combination of Myo-Inositol, Alpha-Lipoic Acid, and Folic Acid on Oocyte Morphology and Embryo Morphokinetics in non-PCOS Overweight/Obese Patients Undergoing IVF: A Pilot, Prospective, Randomized Study. <b>2020</b> , 9,		3
573	Growth hormone alleviates oxidative stress and improves the IVF outcomes of poor ovarian responders: a randomized controlled trial. <b>2020</b> , 18, 91		7
572	Initial ovarian sensitivity index predicts embryo quality and pregnancy potential in the first days of controlled ovarian stimulation. <b>2020</b> , 13, 94		1
571	Effect of endometrial thickness and embryo quality on live-birth rate of fresh IVF/ICSI cycles: a retrospective cohort study. <b>2020</b> , 18, 89		7
570	The clinical use of time-lapse in human-assisted reproduction. <b>2020</b> , 14, 2633494120976921		0
569	Small Noncoding RNA Signatures for Determining the Developmental Potential of an Embryo at the Morula Stage. <b>2020</b> , 21,		8
568	Blastocyst score, a blastocyst quality ranking tool, is a predictor of blastocyst ploidy and implantation potential. <b>2020</b> , 1, 133-141		4
567	Associations between a new day 4 embryo grading system and implantation rates in frozen embryo transfer (FET) cycles. <b>2020</b> , 99, e22676		0
566	Intraindividual Embryo Morphokinetics Are Not Affected by a Switch of the Ovarian Stimulation Protocol Between GnRH Agonist vs. Antagonist Regimens in Consecutive Cycles. <b>2020</b> , 11, 246		1



565	Variants in the Kisspeptin-GnRH Pathway Modulate the Hormonal Profile and Reproductive Outcomes. <b>2020</b> , 39, 1012-1022	2
564	Reduced ovarian response to controlled ovarian stimulation is associated with increased oxidative stress in the follicular environment. <b>2020</b> , 20, 402-407	1
563	Does growth hormone supplementation improve oocyte competence and IVF outcomes in patients with poor embryonic development? A randomized controlled trial. <b>2020</b> , 20, 310	8
562	Combinational approach of retrospective clinical evidence and transcriptomics highlight AMH superiority to FSH, as successful ICSI outcome predictor. <b>2020</b> , 37, 1623-1635	1
561	The Feasibility of All-Blastocyst-Culture and Single Blastocyst Transfer Strategy in Elderly Women: A Retrospective Analysis. <b>2020</b> , 2020, 5634147	1
560	Development of children born from freeze-only versus fresh embryo transfer: follow-up of a randomized controlled trial. <b>2020</b> , 114, 558-566	5
559	How to Reduce the Potential Harmful Effects of Light on Blastocyst Development during IVF. <b>2020</b> , 29, 558-564	4
558	First pregnancy and live birth in Turkey following frozen-thawed ovarian tissue transplantation in a patient with acute lymphoblastic leukemia who underwent cord blood transplantation. <b>2020</b> , 37, 2033-2043	10
557	Dietary Carbohydrate Intake, Dietary Glycemic Load and Outcomes of In Vitro Fertilization: Findings from an Observational Italian Cohort Study. <b>2020</b> , 12,	2
556	The addition of clomiphene citrate to ovarian stimulation protocols for poor responders. <b>2020</b> , 251, 136-140	2
555	Live birth after frozen-thawed embryo transfer: which endometrial preparation protocol is better?. <b>2020</b> , 49, 101782	5
554	The impact of endometrioma size on ovarian responsiveness. <b>2020</b> , 41, 343-348	4
553	Embryos derived from donor or patient oocytes are not different for in vitro fertilization outcomes when PGT allows euploid embryo selection: a retrospective study. <b>2020</b> , 9, 14	2
552	Which key performance indicators are most effective in evaluating and managing an in vitro fertilization laboratory?. <b>2020</b> , 114, 9-15	9
551	A prospective randomized trial comparing corifollitropin- $\alpha$ -late-start (day 4) versus standard administration (day 2) in expected poor, normal, and high responders undergoing controlled ovarian stimulation for IVF. <b>2020</b> , 37, 1163-1170	5
550	Good practice recommendations for the use of time-lapse technology. <b>2020</b> , 2020, hoaa008	40
549	Interleukin 6 in follicular fluid reduces embryo fragmentation and improves the clinical pregnancy rate. <b>2020</b> , 37, 1171-1176	0
548	The effects of hyaluronate-containing medium on human embryo attachment to endometrial epithelial cells. <b>2020</b> , 2020, hoz033	7



547	Evaluation of the effect of piezo-intracytoplasmic sperm injection on the laboratory, clinical, and neonatal outcomes. <b>2020</b> , 19, 198-205		7
546	Permanence of de novo segmental aneuploidy in sequential embryo biopsies. <i>Human Reproduction</i> , <b>2020</b> , 35, 759-769	5-7	5
545	Development of automated annotation software for human embryo morphokinetics. <i>Human Reproduction</i> , <b>2020</b> , 35, 557-564	5-7	6
544	Dysregulation of the interleukin-17A pathway in endometrial tissue from women with unexplained infertility affects pregnancy outcome following assisted reproductive treatment. <i>Human Reproduction</i> , <b>2020</b> , 35, 1875-1888	5-7	4
543	Endometrial extracellular vesicles from women with recurrent implantation failure attenuate the growth and invasion of embryos. <b>2020</b> , 114, 416-425		12
542	Dual-trigger improves the outcomes of in vitro fertilization cycles in older patients with diminished ovarian reserve: A retrospective cohort study. <b>2020</b> , 15, e0235707		12
541	High-quality human preimplantation embryos stimulate endometrial stromal cell migration via secretion of microRNA hsa-miR-320a. <i>Human Reproduction</i> , <b>2020</b> , 35, 1797-1807	5-7	10
540	Endometrial scratch injury with office hysteroscopy before IVF/ICSI: A randomised controlled trial. <b>2020</b> , 252, 112-117		2
539	Use of phospholipase C zeta analysis to identify candidates for artificial oocyte activation: a case series of clinical pregnancies and a proposed algorithm for patient management. <b>2020</b> , 114, 163-174		7
538	Automated Evaluation of Human Embryo Blastulation and Implantation Potential using Deep-Learning. <b>2020</b> , 2, 2000080		6
537	Time-lapse technology for embryo culture and selection. <b>2020</b> , 125, 77-84		7
536	Is cell-free DNA in spent embryo culture medium an alternative to embryo biopsy for preimplantation genetic testing? A systematic review. <b>2020</b> , 40, 779-796		16
535	Live birth rate following undisturbed embryo culture at low oxygen in a time-lapse incubator compared to a high-quality benchtop incubator. <b>2020</b> , 1-7		7
534	Metabolic profile of in vitro derived human embryos is not affected by the mode of fertilization. <b>2020</b> , 26, 277-287		1
533	Busting the myth of extended blastocyst culture until Day 7: Protocol for systematic review and meta-analysis. <b>2020</b> , 99, e18909		3
532	Definition of a clinical strategy to enhance the efficacy, efficiency and safety of egg donation cycles with imported vitrified oocytes. <i>Human Reproduction</i> , <b>2020</b> , 35, 785-795	5-7	5
531	Association between blood lipid level and embryo quality during in vitro fertilization. <b>2020</b> , 99, e19665		4
530	Determinants of the hCG Concentration in the Early Luteal Phase After Final Maturation of Follicles With Bolus Trigger of Recombinant hCG. <b>2020</b> , 11, 137		3

529	Additional luteal support might improve IVF outcomes in patients with low progesterone level in middle luteal phase following a GnRH agonist protocol. <b>2021</b> , 37, 132-136		2
528	Prednisone improves pregnancy outcome in repeated implantation failure by enhance regulatory T cells bias. <b>2021</b> , 143, 103245		6
527	Improving the clinical outcomes by extended culture of day 3 embryos with low blastomere number to blastocyst stage following frozen-thawed embryo transfer. <b>2021</b> , 303, 573-580		1
526	Electronic whiteboard implementation as a quality management tool optimizes IVF laboratory standardization and improves clinical outcomes. <b>2021</b> , 38, 203-210		
525	When embryology meets genetics: the definition of developmentally incompetent preimplantation embryos (DIPE)-the consensus of two Italian scientific societies. <b>2021</b> , 38, 319-331		1
524	Degenerative Oocytes in the Aspirated Cohort Are Not Due to the Aspirating Needle: a Prospective Randomized Pilot Study with Sibling Oocytes. <b>2021</b> , 28, 1882-1889		1
523	Successful implantation is associated with a transient increase in serum pro-inflammatory cytokine profile followed by a switch to anti-inflammatory cytokine profile prior to confirmation of pregnancy. <b>2021</b> , 115, 1044-1053		3
522	Individualized ovarian stimulation for in vitro fertilization: a multicenter, open label, exploratory study with a mixed protocol of follitropin delta and highly purified human menopausal gonadotropin. <b>2021</b> , 115, 991-1000		3
521	Endometriosis Pathogenesis, Clinical Impact and Management. <b>2021</b> ,		1
520	Advances of microfluidic technology in reproductive biology. <b>2021</b> , 265, 118767		11
519	A bibliometric analysis of obstetrics and gynecology articles with highest relative citation ratios, 1980 to 2019. <b>2021</b> , 3, 100293		6
518	[Impact of the type of incubator (non-humidified versus humidified) on embryo culture media osmolality]. <b>2021</b> , 49, 522-528		
517	Definition, diagnostic and therapeutic options in recurrent implantation failure: an international survey of clinicians and embryologists. <i>Human Reproduction</i> , <b>2021</b> , 36, 305-317	5-7	27
516	A New Day 4 Grading System to Assess Embryo Quality in Frozen Embryo Transfer Cycles. <b>2021</b> , 28, 1333-1338		1
515	Association between women's age and stage, morphology, and implantation of the competent blastocyst: a multicenter cohort study. <b>2021</b> , 115, 646-654		1
514	miR-532-3p: a possible altered miRNA in cumulus cells of infertile women with advanced endometriosis. <b>2021</b> , 42, 579-588		3
513	The estradiol/oocyte ratio predicts the MII oocyte rate, but not live-birth rate in a depot gonadotropin-releasing hormone agonist long protocol. <b>2021</b> , 153, 100-105		1
512	Transfer the best and biopsy the rest? Blastocyst euploidy rates differ by morphology and day of biopsy. <b>2021</b> , 303, 249-258		3

511	Modern approach to the evaluation of the quality of oocytes in programs of in vitro fertilization (literature review). <b>2021</b> , 27, 127		
510	. <b>2021</b> , 9, 47096-47111		2
509	Oocyte Morphology and Reproductive Outcomes - Case Report and Literature Review. <b>2021</b> , 25, 500-507		0
508	Comparison of Oocyte and Embryo Quality Between Random Start and Controlled Ovarian Stimulation Cycles in Cancer Patients Undergoing Fertility Preservation. <b>2021</b> , 28, 2200-2207		0
507	Fifteen Year Regional Center Experience in Sperm Banking for Cancer Patients: Use and Reproductive Outcomes in Survivors. <b>2021</b> , 13,		2
506	High anti-Müllerian hormone levels might not reflect the likelihood of clinical pregnancy rate in IVF/ICSI treatment. <b>2021</b> , 25, 266-271		0
505	The sodium/proton exchanger SLC9C1 (sNHE) is essential for human sperm motility and fertility. <b>2021</b> , 99, 684-693		5
504	Clinical Outcomes Deriving from Transfer of Blastocysts Developed in Day 7: a Systematic Review and Meta-Analysis of Frozen-Thawed IVF Cycles. <b>2021</b> , 1		0
503	Luteal Phase Ovarian Stimulation versus Follicular Phase Ovarian Stimulation results in different Human Cumulus cell genes expression: A pilot study. <b>2021</b> , 18, 1600-1608		1
502	Sperm DNA fragmentation and male age: results of in vitro fertilization treatments. <b>2021</b> , 25, 533-539		0
501	Seasonal Influence on Assisted Reproductive Technology Outcomes: A Retrospective Analysis of 1409 Cycles. <b>2021</b> , 14, 293-299		
500	Mid-luteal uterine artery Doppler indices in the prediction of pregnancy outcome in nulliparous women undergoing assisted reproduction. <b>2021</b> , 1-11		
499	Blastocyst age, expansion, trophectoderm morphology, and number cryopreserved are variables predicting clinical implantation in single blastocyst frozen embryo transfers in freeze-only-IVF. <b>2021</b> , 38, 1077-1087		2
498	TEMPORARY REMOVAL: Growth hormone improves insulin-like growth factor 1 and steroid hormone levels in follicle fluid, expression of hormone receptors in granulosa cells, and in vitro fertilization outcomes of poor ovarian responders. <b>2021</b> ,		
497	Genome-wide abnormalities in embryos: Origins and clinical consequences. <b>2021</b> , 41, 554-563		5
496	The Morphology of Inner Cell Mass Is the Strongest Predictor of Live Birth After a Frozen-Thawed Single Embryo Transfer. <b>2021</b> , 12, 621221		3
495	Occurrence of smooth endoplasmic reticulum aggregates in metaphase II oocytes: relationship with stimulation protocols and outcome of ICSI and IVF cycles. <i>Human Reproduction</i> , <b>2021</b> , 36, 907-917	5-7	5
494	Fertility technologies and how to optimize laboratory performance to support the shortening of time to birth of a healthy singleton: a Delphi consensus. <b>2021</b> , 38, 1021-1043		2

493	Conventional ICSI vs. physiological selection of spermatozoa for ICSI (picsi) in sibling oocytes. <b>2021</b> , 9, 873-877		0
492	Time-lapse technology improves total cumulative live birth rate and shortens time to live birth as compared to conventional incubation system in couples undergoing ICSI. <b>2021</b> , 38, 917-923		1
491	ICSI Does Not Improve Live Birth Rates but Yields Higher Cancellation Rates Than Conventional IVF in Unexplained Infertility. <b>2020</b> , 7, 614118		1
490	Effect of the oxytocin receptor antagonist nolasiban on pregnancy rates in women undergoing embryo transfer following IVF: analysis of three randomised clinical trials. <i>Human Reproduction</i> , <b>2021</b> , 36, 1007-1020	5.7	6
489	Competence of embryos showing transient developmental arrest during in vitro culture. <b>2021</b> , 38, 857-863		1
488	The efficiency of progesterone/estradiol and progesterone/follicle ratio without elevated trigger-day progesterone levels on the reproductive outcomes of GnRH antagonist IVF/ICSI cycles. <b>2021</b> , 37, 885-890		1
487	A novel embryo quality scoring system to compare groups of embryos at different developmental stages. <b>2021</b> , 38, 1123-1132		1
486	Luteal Support with very Low Daily Dose of Human Chorionic Gonadotropin after Fresh Embryo Transfer as an Alternative to Cycle Segmentation for High Responders Patients Undergoing Gonadotropin-Releasing Hormone Agonist-Triggered IVF. <b>2021</b> , 14,		0
485	Association between blastocyst morphology and maternal first trimester serum markers in ongoing pregnancies obtained after single fresh blastocyst transfer. <b>2021</b> , 258, 63-69		2
484	High mRNA expression of GABA receptors in human sperm with oligoasthenoteratozoospermia and teratozoospermia and its association with sperm parameters and intracytoplasmic sperm injection outcomes. <b>2021</b> , 48, 50-60		0
483	Cryopreservation. <b>2021</b> , 144-158		
482	Relationship between follicular size and developmental capacity of oocytes under controlled ovarian hyperstimulation in assisted reproductive technologies. <b>2021</b> , 20, 299-304		2
481	Understanding the natural selection of human embryos: Blastocyst quality modulates the inflammatory response during the peri-implantation period. <b>2021</b> , e13423		1
480	The Impact of Down-Regulation on Obstetrics and Perinatal Outcomes in Singleton Pregnancies After Fertilization. <b>2021</b> , 12, 622081		0
479	Development of deep learning algorithms for predicting blastocyst formation and quality by time-lapse monitoring. <b>2021</b> , 4, 415		7
478	Time-lapse imaging of human embryos fertilized with testicular sperm reveals an impact on the first embryonic cell cycle. <b>2021</b> , 104, 1218-1227		1
477	Comparison of Embryo and Clinical Outcomes in Different Types of Incubator Between Two Different Embryo Culture Systems. <b>2021</b> , 28, 2301-2309		0
476	Effect of unplanned spontaneous follicular growth and ovulation on pregnancy outcomes in planned artificial frozen embryo transfer cycles: a propensity score matching study. <i>Human Reproduction</i> , <b>2021</b> , 36, 1542-1551	5.7	2

475	(Pro)renin Receptor Is Present in Human Sperm and It Adversely Affects Sperm Fertility Ability. <b>2021</b> , 22,		2
474	Individualized Embryo Selection. <b>2021</b> , 96-111		
473	In vitro fertilization cycles stimulated with follitropin delta result in similar embryo development and quality when compared with cycles stimulated with follitropin alfa or follitropin beta. <b>2021</b> , 2, 30-35		0
472	Modelling human blastocysts by reprogramming fibroblasts into iBlastoids. <b>2021</b> , 591, 627-632		70
471	Mean blastomere diameter may predict clinical pregnancy in long agonist protocol intracytoplasmic sperm injection cycles with single embryo transfer. <b>2021</b> , 26,		
470	Biosimilar recombinant follitropin alfa preparations versus the reference product (Gonal-F®) in couples undergoing assisted reproductive technology treatment: a systematic review and meta-analysis. <b>2021</b> , 19, 51		0
469	Association between follicular fluid phthalate concentrations and extracellular vesicle microRNAs expression. <i>Human Reproduction</i> , <b>2021</b> , 36, 1590-1599	5-7	2
468	Live birth rate after use of cryopreserved oocytes or embryos at the time of cancer diagnosis in female survivors: a retrospective study of ten years of experience. <b>2021</b> , 38, 1767-1775		3
467	Micronized progesterone plus dydrogesterone versus micronized progesterone alone for luteal phase support in frozen-thawed cycles (MIDRONE): a prospective cohort study. <i>Human Reproduction</i> , <b>2021</b> , 36, 1821-1831	5-7	6
466	Three-Dimensional Live Imaging of Bovine Preimplantation Embryos: A New Method for IVF Embryo Evaluation. <b>2021</b> , 8, 639249		1
465	Should we look for a low-grade threshold for blastocyst transfer? A scoping review. <b>2021</b> , 42, 709-716		2
464	Does Ovarian Endometriosis Increase Oocyte Sensitivity to ICSI-Induced Mechanical Damage?. <b>2021</b> , 10,		0
463	Dydrogesterone versus medroxyprogesterone acetate co-treatment ovarian stimulation for IVF: a matched cohort study of 236 freeze-all-IVF cycles. <b>2021</b> , 1-8		
462	Intracytoplasmic sperm injection versus conventional in-vitro fertilisation in couples with infertility in whom the male partner has normal total sperm count and motility: an open-label, randomised controlled trial. <b>2021</b> , 397, 1554-1563		10
461	Digital PCR Detection of mtDNA/gDNA Ratio in Embryo Culture Medium for Prediction of Embryo Development Potential. <b>2021</b> , 14, 521-531		2
460	The role of transcriptomic biomarkers of endometrial receptivity in personalized embryo transfer for patients with repeated implantation failure. <b>2021</b> , 19, 176		6
459	Mitochondrial DNA mutations do not impact early human embryonic development. <b>2021</b> , 58, 59-63		2
458	TESE-ICSI outcomes per couple in vasectomized males are negatively affected by time since the intervention, but not other comorbidities. <b>2021</b> , 43, 708-717		0

457	Improving embryo selection by the development of a laboratory-adapted time-lapse model.. <b>2021</b> , 2, 176-197	0
456	Thicker endometrium on hCG trigger day improves the live birth rate of fresh cleavage embryo transfer in GnRH-agonist regimen of normogonadotrophic women. <b>2021</b> , 9, 856	1
455	Automated and precise recognition of human zygote cytoplasm: A robust image-segmentation system based on a convolutional neural network. <b>2021</b> , 67, 102551	1
454	Effects of multicycle gonadotropin-releasing hormone antagonist protocols on oxidative stress of follicular fluid and ovarian granulosa cells. <b>2021</b> , 34, 1324-1334	1
453	Mitochondrial DNA copy number of cumulus cells is not linked to embryo implantation in good prognosis IVF patients. <b>2021</b> , 42, 901-908	1
452	Correlation between steroid levels in follicular fluid and hormone synthesis related substances in its exosomes and embryo quality in patients with polycystic ovary syndrome. <b>2021</b> , 19, 74	2
451	Pronuclear score improves prediction of embryo implantation success in ICSI cycles. <b>2021</b> , 21, 361	2
450	Affected-embryo-based SNP haplotyping with NGS for the preimplantation genetic testing of Marfan syndrome. <b>2021</b> , 67, 298-306	1
449	N-acetyl-L-cysteine Improves the Developmental Competence of Bovine Oocytes and Embryos Cultured In Vitro by Attenuating Oxidative Damage and Apoptosis. <b>2021</b> , 10,	0
448	Sperm DNA fragmentation measured by sperm chromatin dispersion impacts morphokinetic parameters, fertilization rate and blastocyst quality in ICSI treatments. <b>2021</b> , 1-8	0
447	Timing of Embryo Culture. <b>2021</b> , 66-74	
446	Extracellular microRNAs: key players to explore the outcomes of in vitro fertilization. <b>2021</b> , 19, 72	4
445	Elevated serum progesterone does not impact euploidy rates in PGT-A patients. <b>2021</b> , 38, 1819-1826	0
444	Utilization of in vitro maturation in cases with a FSH receptor mutation. <b>2021</b> , 38, 1311-1321	3
443	Comparison of pregnancy outcomes using a time-lapse monitoring system for embryo incubation versus a conventional incubator in in vitro fertilization: An age-stratification analysis. <b>2021</b> , 48, 174-183	1
442	Analysis of in vitro fertilization/intracytoplasmic sperm injection outcomes in infertile women with a history of thyroid cancer: a retrospective study. <b>2021</b> , 19, 82	1
441	Choosing an embryo for transfer. <b>2021</b> , 484-491	
440	Growth hormone replacement improved oocyte quality in a patient with hypopituitarism: A study of follicular fluid. <b>2021</b> , 82, 590-596	1

439	Extended embryo culture is effective for patients of an advanced maternal age. <b>2021</b> , 11, 13499		1
438	Plasticity of the human preimplantation embryo: developmental dogmas, variations on themes and self-correction. <b>2021</b> , 27, 848-865		7
437	The effects of aging on molecular modulators of human embryo implantation. <b>2021</b> , 24, 102751		4
436	Analysis of related factors affecting cumulative live birth rates of the first ovarian hyperstimulation in vitro fertilization or intracytoplasmic sperm injection cycle: a population-based study from 17,978 women in China. <b>2021</b> , 134, 1405-1415		0
435	In freeze-all embryo cycles due to endometrial fluid (EF), live birth rates are comparable to those of controls, despite high rates of EF recurrence and cycle cancellation. <b>2021</b> , 50, 101960		1
434	A randomised, multi-center, open trial comparing a semi-automated closed vitrification system with a manual open system in women undergoing IVF. <i>Human Reproduction</i> , <b>2021</b> , 36, 2101-2110	5-7	0
433	Risk Factors for Different Types of Pregnancy Losses: Analysis of 15,210 Pregnancies After Embryo Transfer. <b>2021</b> , 12, 683236		2
432	Effects of immediate versus delayed frozen embryo transfer in high responder patients undergoing freeze-all cycles. <b>2021</b> , 21, 455		0
431	Monopronucleated (1PN) and tripronuclear (3PN) zygotes formation during assisted reproduction in POSEIDON group 4 patients: Emphasizing on polar bodies. <b>2021</b> , 47, 3232-3240		
430	How many embryos to transfer?. <b>2021</b> , 381-389		
429	The Impact of Endometriosis on Embryo Quality in Fertilization/Intracytoplasmic Sperm Injection: A Systematic Review and Meta-Analysis. <b>2021</b> , 8, 669342		1
428	[Outcomes of cumulative transfers of fresh and frozen embryos in in vitro fertilization in women infected by hepatitis B virus]. <b>2021</b> , 49, 529-537		1
427	Cell-free mtDNA level and its biomarker potency for ART outcome are different in follicular fluid of PCOS and non-PCOS women. <b>2021</b> , 59, 30-36		0
426	One step further: randomised single-centre trial comparing the direct and afterload techniques of embryo transfer. <i>Human Reproduction</i> , <b>2021</b> , 36, 2484-2492	5-7	0
425	MicroRNAs secreted by human embryos could be potential biomarkers for clinical outcomes of assisted reproductive technology. <b>2021</b> , 31, 25-34		7
424	Podocalyxin inhibits human embryo implantation in vitro and luminal podocalyxin in putative receptive endometrium is associated with implantation failure in fertility treatment. <b>2021</b> , 116, 1391-1401		4
423	Effects of Gender of Reciprocal Chromosomal Translocation on Blastocyst Formation and Pregnancy Outcome in Preimplantation Genetic Testing. <b>2021</b> , 12, 704299		1
422	Clinical and perinatal outcomes of fresh single-blastocyst-transfer cycles under an early follicular phase prolonged protocol according to day of trigger estradiol levels. <b>2021</b> , 9, e11785		0



421	Relationship of sperm motility with clinical outcome of percutaneous epididymal sperm aspiration-intracytoplasmic sperm injection in infertile males with congenital absence of vas deferens: a retrospective study. <b>2021</b> , 1-5	1
420	Blastomere movement correlates with ploidy and mosaicism in early-stage human embryos after fertilization. <b>2021</b> , 1-15	2
419	Laser-assisted hatching in lower grade cleavage stage embryos improves blastocyst formation: results from a retrospective study. <b>2021</b> , 14, 94	1
418	Greater fetal crown-rump length growth with the use of in vitro fertilization or intracytoplasmic sperm injection conceptions after thawed versus fresh blastocyst transfers: secondary analysis of a prospective cohort study. <b>2021</b> , 116, 147-156	4
417	[Prognostic factors of live-birth after in vitro fertilization for unexplained infertility: A cohort study]. <b>2021</b> , 49, 601-607	1
416	Compatibility of Distinct Label-Free Proteomic Workflows in Absolute Quantification of Proteins Linked to the Oocyte Quality in Human Follicular Fluid. <b>2021</b> , 22,	1
415	Morphogenesis of the human preimplantation embryo: bringing mechanics to the clinics. <b>2021</b> , 120, 22-22	2
414	Letrozole-induced frozen embryo transfer cycles are associated with a lower risk of hypertensive disorders of pregnancy among women with polycystic ovary syndrome. <b>2021</b> , 225, 59.e1-59.e9	7
413	Molecular Drivers of Developmental Arrest in the Human Preimplantation Embryo: A Systematic Review and Critical Analysis Leading to Mapping Future Research. <b>2021</b> , 22,	2
412	The effect of rapid and delayed insemination on reproductive outcome in conventional insemination and intracytoplasmic sperm injection in vitro fertilization cycles. <b>2021</b> , 38, 2697-2706	0
411	The Mare: A Pertinent Model for Human Assisted Reproductive Technologies?. <b>2021</b> , 11,	3
410	Novel variants of the PCCB gene in Chinese patients with propionic acidemia. <b>2021</b> , 519, 18-25	
409	Non invasive assessment of human oocytes and embryos in assisted reproduction: Review on present practices and future trends.. <b>2022</b> , 78, 7-16	
408	Dyslipidemia Is Negatively Associated With the Cumulative Live-Birth Rate in Patients Without PCOS Following IVF/ICSI. <b>2021</b> , 12, 713356	0
407	Oocyte Degeneration After ICSI Is Not an Indicator of Live Birth in Young Women. <b>2021</b> , 12, 705733	
406	Oocytes With Smooth Endoplasmic Reticulum Aggregates Are Not Associated With Impaired Reproductive Outcomes: A Matched Retrospective Cohort Study. <b>2021</b> , 12, 688967	0
405	Cumulative IVF outcomes after retrieval of testicular spermatozoa: should we use immotile spermatozoa for ICSI?. <b>2021</b> , 43, 269-277	0
404	The expression and activity of Toll-like receptors in the preimplantation human embryo suggest a new role for innate immunity. <i>Human Reproduction</i> , <b>2021</b> , 36, 2661-2675	5-7 0



403	Associations between dyslipidaemia and pregnancy outcomes in the first complete cycle of IVF/ICSI: a real-world analysis. <b>2021</b> , 43, 1095-1105		0
402	Educational needs of fertility healthcare professionals using ART: a multi-country mixed-methods study. <b>2021</b> , 43, 434-445		1
401	The effect of LH rise during artificial frozen-thawed embryo transfer (FET) cycles.. <b>2021</b> , 2, 231-235		0
400	Human embryo polarization requires PLC signaling to mediate trophectoderm specification. <b>2021</b> , 10,		9
399	Ideal lag time from ovulation to oocyte aspiration using a GnRH agonist trigger. <b>2021</b> , 50, 102055		1
398	Time-lapse monitoring of fertilized human oocytes focused on the incidence of OPN embryos in conventional in vitro fertilization cycles. <b>2021</b> , 11, 18862		0
397	Myoinositol metformin pretreatment in GnRH-antagonist cycle for women with PCOS undergoing IVF: a double-blinded randomized controlled study. <b>2021</b> , 1-8		1
396	Effect of sequential versus single-step culture medium on IVF treatments, including embryo and clinical outcomes: a prospective randomized study. <b>2021</b> , 1		0
395	Comparison of two mainstream endometrial preparation regimens in vitrified-warmed embryo transfers after PGT. <b>2021</b> ,		2
394	Optimisation of the timing of fertilisation assessment for oocytes cultured in standard incubation: lessons learnt from time-lapse imaging of 78 348 embryos. <i>Human Reproduction</i> , <b>2021</b> , 36, 2840-2847	5.7	0
393	Progesterone and estrogen levels are associated with live birth rates following artificial cycle frozen embryo transfers. <b>2021</b> , 38, 2925-2931		2
392	Use of a new set of key performance indicators for evaluating the performance of an fertilization laboratory in which blastocyst culture and the freeze-all strategy are the primary treatment in patients with fertilization. <b>2021</b> , 49, 3000605211044364		0
391	Change in the Strategy of Embryo Selection with Time-Lapse System Implementation-Impact on Clinical Pregnancy Rates. <b>2021</b> , 10,		1
390	Integrated pseudotime analysis of human pre-implantation embryo single-cell transcriptomes reveals the dynamics of lineage specification. <b>2021</b> , 28, 1625-1640.e6		14
389	Duration of estradiol supplementation in luteal phase support for frozen embryo transfer in hormone replacement treatment cycles: a randomized, controlled phase III trial. <b>2021</b> , 1		1
388	The impact of using culture media containing granulocyte-macrophage colony-stimulating factor on live birth rates in patients with a history of embryonic developmental arrest in previous in vitro fertilization cycles. <b>2021</b> , 22, 181-186		
387	The Microbial Composition of Lower Genital Tract May Affect the Outcome of Fertilization-Embryo Transfer. <b>2021</b> , 12, 729744		1
386	Selección de embriones en los tratamientos de fecundación in vitro. <b>2022</b> , 49, 100709		



385	Efficacy, safety, and immunogenicity of a biosimilar recombinant human follicle-stimulating hormone (Folitime <sup>®</sup> ) vs. Gonal-f <sup>®</sup> in women undergoing ovarian stimulation for IVF: A randomized, multicenter, evaluator-blinded, non-inferiority study. <b>2021</b> , 25, 524-532	
384	Maturation of Oocytes with Consecutive Clinical Pregnancy after Accidental Premature Ovulation Induction-A Rescue Strategy in Art. <b>2021</b> , 17, 106-110	
383	Normalized Mitochondrial DNA Copy Number Can Optimize Pregnancy Outcome Prediction in IVF. <b>2021</b> , 28, 1439-1446	2
382	Short Ejaculatory Abstinence in Normozoospermic Men is Associated with Higher Clinical Pregnancy Rates in Sub-fertile Couples Undergoing Intra-Cytoplasmic Sperm Injection in Assisted Reproductive Technology: A Retrospective Analysis of 1691 Cycles. <b>2021</b> , 14, 273-280	1
381	A flexible short protocol in women with poor ovarian response over 40 years old. <b>2021</b> , 14, 3	1
380	Age-related decline in the expression of GDF9 and BMP15 genes in follicle fluid and granulosa cells derived from poor ovarian responders. <b>2021</b> , 14, 1	11
379	Effect of Endometrial Thickness and duration of Estrogen Supplementation on Fertilization-Intracytoplasmic Sperm Injection Outcomes in Fresh Ovum/Embryo Donation Cycles. <b>2021</b> , 14, 167-174	1
378	The Role of the Plasma Membrane and Pericortical Cytoplasm in Early Mammalian Development. <b>2013</b> , 265-287	1
377	Morphological Assessment of Blastocyst Stage Embryos: Types of Grading Systems and Their Reported Outcomes. <b>2013</b> , 31-43	5
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