Giovanni Coticchio

List of Publications by Citations

102 papers	4,154 citations	38 h-index	63 g-index
121 ext. papers	4,753 ext. citations	3.8 avg, IF	5.17 L-index

#	Paper	IF	Citations
102	Sperm DNA fragmentation: paternal effect on early post-implantation embryo development in ART. *Human Reproduction*, **2006**, 21, 2876-81	5.7	362
101	Oocyte maturation: gamete-somatic cells interactions, meiotic resumption, cytoskeletal dynamics and cytoplasmic reorganization. *Human Reproduction Update*, **2015**, 21, 427-54	15.8	224
100	Clinical outcome of oocyte cryopreservation after slow cooling with a protocol utilizing a high sucrose concentration. *Human Reproduction*, **2006**, 21, 512-7	5.7	190
99	Pregnancies and births after oocyte cryopreservation. *Fertility and Sterility*, **2004**, 82, 601-5	4.8	175
98	Cleavage kinetics analysis of human embryos predicts development to blastocyst and implantation. *Reproductive BioMedicine Online*, **2012**, 25, 474-80	4	166
97	Polar body morphology and spindle imaging as predictors of oocyte quality. *Reproductive BioMedicine Online*, **2005**, 11, 36-42	4	138
96	What criteria for the definition of oocyte quality?. *Annals of the New York Academy of Sciences*, **2004**, 1034, 132-44	6.5	123
95	Differential sucrose concentration during dehydration (0.2 mol/l) and rehydration (0.3 mol/l) increases the implantation rate of frozen human oocytes. *Reproductive BioMedicine Online*, **2007**, 14, 64-71	4	121
94	Revised guidelines for good practice in IVF laboratories (2015). *Human Reproduction*, **2016**, 31, 685-6	5.7	112
93	Meiotic spindle imaging in human oocytes frozen with a slow freezing procedure involving high sucrose concentration. *Human Reproduction*, **2005**, 20, 1078-83	5.7	109
92	Cumulative pregnancy rates resulting from the use of fresh and frozen oocytes: 7 yearsS experience. *Reproductive BioMedicine Online*, **2006**, 12, 481-6	4	97
91	Ultrastructure of human mature oocytes after slow cooling cryopreservation using different sucrose concentrations. *Human Reproduction*, **2007**, 22, 1123-33	5.7	92
90	Sucrose concentration influences the rate of human oocytes with normal spindle and chromosome configurations after slow-cooling cryopreservation. *Human Reproduction*, **2006**, 21, 1771-6	5.7	90
89	Meiotic spindle dynamics in human oocytes following slow-cooling cryopreservation. *Human Reproduction*, **2009**, 24, 2114-23	5.7	87
88	Natriuretic peptide precursor C delays meiotic resumption and sustains gap junction-mediated communication in bovine cumulus-enclosed oocytes. *Biology of Reproduction*, **2014**, 91, 61	3.9	78
87	Predictive factors for embryo implantation potential. *Reproductive BioMedicine Online*, **2005**, 10, 653-68	4	76
86	Evidence-based clinical outcome of oocyte slow cooling. *Reproductive BioMedicine Online*, **2007**, 15, 175-81	4	74

85	Vitrification may increase the rate of chromosome misalignment in the metaphase II spindle of human mature oocytes. *Reproductive BioMedicine Online*, **2009**, 19 Suppl 3, 29-34	4	73
84	Multicenter observational study on slow-cooling oocyte cryopreservation: clinical outcome. *Fertility and Sterility*, **2010**, 94, 1662-8	4.8	67
83	Ultrastructural markers of quality in human mature oocytes vitrified using cryoleaf and cryoloop. *Reproductive BioMedicine Online*, **2009**, 19 Suppl 3, 17-27	4	67
82	Comparison of the obstetric and perinatal outcomes of children conceived from in vitro or in vivo matured oocytes in in vitro maturation treatments with births from conventional ICSI cycles. *Human Reproduction*, **2012**, 27, 3601-8	5.7	64
81	Anomalies in sperm chromatin packaging: implications for assisted reproduction techniques. *Reproductive BioMedicine Online*, **2009**, 18, 486-95	4	60
80	Inhibition of phosphoinositide metabolism or chelation of intracellular calcium blocks FSH-induced but not spontaneous meiotic resumption in mouse oocytes. *Developmental Biology*, **1998**, 203, 201-9	3.1	58
79	Volume changes of mature human oocytes on exposure to cryoprotectant solutions used in slow cooling procedures. *Human Reproduction*, **2005**, 20, 1194-9	5.7	56
78	Focused time-lapse analysis reveals novel aspects of human fertilization and suggests new parameters of embryo viability. *Human Reproduction*, **2018**, 33, 23-31	5.7	54
77	The current challenges to efficient immature oocyte cryopreservation. *Journal of Assisted Reproduction and Genetics*, **2013**, 30, 1531-9	3.4	54
76	Permeability of human oocytes to ethylene glycol and their survival and spindle configurations after slow cooling cryopreservation. *Human Reproduction*, **2007**, 22, 2776-83	5.7	51
75	Human oocyte maturation in vitro. *International Journal of Developmental Biology*, **2012**, 56, 909-18	1.9	50
74	Oocyte in vitro maturation in normo-ovulatory women. *Fertility and Sterility*, **2013**, 99, 1162-9	4.8	49
73	Comparative analysis of the metaphase II spindle of human oocytes through polarized light and high-performance confocal microscopy. *Fertility and Sterility*, **2010**, 93, 2056-64	4.8	49
72	Clinical efficiency of oocyte and embryo cryopreservation. *Annals of the New York Academy of Sciences*, **2008**, 1127, 49-58	6.5	49
71	Characterization of the human cumulus cell transcriptome during final follicular maturation and ovulation. *Molecular Human Reproduction*, **2014**, 20, 719-35	4.4	48
70	Ultrastructure of human mature oocytes after slow cooling cryopreservation with ethylene glycol. *Reproductive BioMedicine Online*, **2008**, 17, 368-77	4	48
69	Criteria to assess human oocyte quality after cryopreservation. *Reproductive BioMedicine Online*, **2005**, 11, 421-7	4	46
68	Oocyte cryopreservation: a biological perspective. *European Journal of Obstetrics, Gynecology and Reproductive Biology*, **2004**, 115 Suppl 1, S2-7	2.4	43

67	Good practice recommendations for the use of time-lapse technology. *Human Reproduction Open*, **2020**, 2020, hoaa008	6.1	40
66	Mechanistic foundations of the metaphase II spindle of human oocytes matured in vivo and in vitro. *Human Reproduction*, **2013**, 28, 3271-82	5.7	40
65	Objective evaluation of the viability of cryopreserved oocytes. *Reproductive BioMedicine Online*, **2007**, 15, 338-45	4	38
64	Truths and myths of oocyte sensitivity to controlled rate freezing. *Reproductive BioMedicine Online*, **2007**, 15, 24-30	4	38
63	Embryo transfer following in vitro maturation and cryopreservation of oocytes recovered from antral follicles during conservative surgery for ovarian cancer. *Journal of Assisted Reproduction and Genetics*, **2012**, 29, 779-81	3.4	35
62	Qualitative and morphometric analysis of the ultrastructure of human oocytes cryopreserved by two alternative slow cooling protocols. *Journal of Assisted Reproduction and Genetics*, **2010**, 27, 131-40	3.4	35
61	Half-dose depot triptorelin in pituitary suppression for multiple ovarian stimulation in assisted reproduction technology: a randomized study. *Human Reproduction*, **2004**, 19, 2200-5	5.7	32
60	Ultrastructure of human oocytes after in vitro maturation. *Molecular Human Reproduction*, **2016**, 22, 110-8	4.4	31
59	The enigmatic morula: mechanisms of development, cell fate determination, self-correction and implications for ART. *Human Reproduction Update*, **2019**, 25, 422-438	15.8	30
58	Cumulus cell-oocyte complexes retrieved from antral follicles in IVM cycles: relationship between COCs morphology, gonadotropin priming and clinical outcome. *Journal of Assisted Reproduction and Genetics*, **2012**, 29, 513-9	3.4	29
57	ESHRE PGT Consortium and SIG Embryology good practice recommendations for polar body and embryo biopsy for PGT. *Human Reproduction Open*, **2020**, 2020, hoaa020	6.1	26
56	Anti-mullerian hormone as a predictive marker for the selection of women for oocyte in vitro maturation treatment. *Journal of Assisted Reproduction and Genetics*, **2011**, 28, 501-8	3.4	26
55	Characterization, expression, and functional activity of pituitary adenylate cyclase-activating polypeptide and its receptors in human granulosa-luteal cells. *Journal of Clinical Endocrinology and Metabolism*, **2008**, 93, 4924-32	5.6	26
54	Mouse oocyte meiotic resumption and polar body extrusion in vitro are differentially influenced by FSH, epidermal growth factor and meiosis-activating sterol. *Human Reproduction*, **2004**, 19, 2913-8	5.7	24
53	Contributions of the actin cytoskeleton to the emergence of polarity during maturation in human oocytes. *Molecular Human Reproduction*, **2014**, 20, 200-7	4.4	22
52	Freeze/thaw stress induces organelle remodeling and membrane recycling in cryopreserved human mature oocytes. *Journal of Assisted Reproduction and Genetics*, **2016**, 33, 1559-1570	3.4	21
51	Cumulative live birth rate in freeze-all cycles is comparable to that of a conventional embryo transfer policy at the cleavage stage but superior at the blastocyst stage. *Fertility and Sterility*, **2018** , 110, 703-709	4.8	21
50	Influence of thyroid hormone on mouse preantral follicle development in vitro. *Fertility and Sterility* , **2004**, 81 Suppl 1, 919-24	4.8	20

49	The efficacy and safety of human oocyte cryopreservation by slow cooling. *Seminars in Reproductive Medicine*, **2009**, 27, 443-9	1.4	18
48	A PolScope evaluation of meiotic spindle dynamics in frozen-thawed oocytes. *Reproductive BioMedicine Online*, **2009**, 19, 191-7	4	17
47	IVM in need of clear definitions. *Human Reproduction*, **2016**, 31, 1387-9	5.7	17
46	Theoretical and experimental basis of slow freezing. *Reproductive BioMedicine Online*, **2011**, 22, 125-32	4	14
45	Characterization of the miRNA regulators of the human ovulatory cascade. *Scientific Reports*, **2018**, 8, 15605	4.9	14
44	Clinical outcomes from mature oocytes derived from preovulatory and antral follicles: reflections on follicle physiology and oocyte competence. *Journal of Assisted Reproduction and Genetics*, **2015**, 32, 255-61	3.4	13
43	Dysmorphic patterns are associated with cytoskeletal alterations in human oocytes. *Human Reproduction*, **2017**, 32, 750-757	5.7	11
42	Morphokinetics of embryos developed from oocytes matured in vitro. *Journal of Assisted Reproduction and Genetics*, **2016**, 33, 247-53	3.4	11
41	Male factor infertility impacts the rate of mosaic blastocysts in cycles of preimplantation genetic testing for aneuploidy. *Journal of Assisted Reproduction and Genetics*, **2019**, 36, 2047-2055	3.4	11
40	Cryopreservation of human oocytes. *Human Fertility*, **2001**, 4, 152-7	1.9	11
39	Double-strand DNA breaks and repair response in human immature oocytes and their relevance to meiotic resumption. *Journal of Assisted Reproduction and Genetics*, **2015**, 32, 1509-16	3.4	10
38	Does the molecular and metabolic profile of human granulosa cells correlate with oocyte fate? New insights by Fourier transform infrared microspectroscopy analysis. *Molecular Human Reproduction*, **2018**, 24, 521-532	4.4	10
37	Artificial reproductive technology achievements for optimizing embryo quality. *Annals of the New York Academy of Sciences*, **2004**, 1034, 252-61	6.5	10
36	Outcome of cycles of oocyte in vitro maturation requiring testicular sperm extraction for nonobstructive azoospermia. *Fertility and Sterility*, **2011**, 96, 321-3	4.8	9
35	The histidinol phosphate phosphatase involved in histidine biosynthetic pathway is encoded by SCO5208 (hisN) in Streptomyces coelicolor A3(2). *Current Microbiology*, **2008**, 56, 6-13	2.4	9
34	Cytoplasmic halo characteristics during fertilization and their implications for human preimplantation embryo development and pregnancy outcome. *Reproductive BioMedicine Online*, **2020**, 41, 191-202	4	8
33	Perturbations of morphogenesis at the compaction stage affect blastocyst implantation and live birth rates. *Human Reproduction*, **2021**, 36, 918-928	5.7	8
32	Sperm count affects cumulative birth rate of assisted reproduction cycles in relation to ovarian response. *Journal of Assisted Reproduction and Genetics*, **2020**, 37, 1653-1659	3.4	7

31	Retrospective analysis of treatments with recombinant FSH and recombinant LH versus human menopausal gonadotropin in women with reduced ovarian reserve. *Journal of Assisted Reproduction and Genetics*, **2017**, 34, 1645-1651	3.4	7
30	Alternative patterns of partial embryo compaction: prevalence, morphokinetic history and possible implications. *Reproductive BioMedicine Online*, **2020**, 40, 347-354	4	7
29	Plasticity of the human preimplantation embryo: developmental dogmas, variations on themes and self-correction. *Human Reproduction Update*, **2021**, 27, 848-865	15.8	7
28	Fertilization and early developmental ability of cryopreserved human oocytes is not affected compared to sibling fresh oocytes. *Fertility and Sterility*, **2007**, 88, S340	4.8	6
27	Oocyte freezing: a positive comment based on our experience. *Reproductive BioMedicine Online*, **2003**, 7, 120	4	6
26	Thyroid hormones T3 and T4 regulate human luteinized granulosa cells, counteracting apoptosis and promoting cell survival. *Journal of Endocrinological Investigation*, **2020**, 43, 821-831	5.2	6
25	The subcortical maternal complex: emerging roles and novel perspectives. *Molecular Human Reproduction*, **2021**, 27,	4.4	6
24	Differential regulation of cumulus cell transcription during oocyte maturation in vivo and in vitro. *International Journal of Developmental Biology*, **2017**, 61, 433-437	1.9	5
23	Polarization microscopy and rescue ICSI. *Reproductive BioMedicine Online*, **2013**, 26, 222-3; discussion 224-5	4	5
22	Cytoplasmic movements of the early human embryo: imaging and artificial intelligence to predict blastocyst development. *Reproductive BioMedicine Online*, **2021**, 42, 521-528	4	4
21	Genetic causes of preimplantation embryo developmental failure. *Molecular Reproduction and Development*, **2021**, 88, 338-348	2.6	4
20	Type of protein supplement in cryopreservation solutions impacts on the degree of ultrastructural damage in frozen-thawed human oocytes. *Cryobiology*, **2020**, 95, 143-150	2.7	3
19	Efficacy of luteal phase support with GnRH agonists: a preliminary comparative study. *Fertility and Sterility*, **2013**, 100, S299	4.8	3
18	Reprint of: Theoretical and experimental basis of slow freezing. *Reproductive BioMedicine Online*, **2011**, 23, 290-7	4	3
17	POSTER VIEWING SESSION - EMBRYOLOGY. *Human Reproduction*, **2011**, 26, i160-i202	5.7	3
16	The Choreography of Fertilization **2013**, 289-306		2
15	The slippery slope antedating syngamy: pronuclear activity in preparation for the first cleavage. *Journal of Assisted Reproduction and Genetics*, **2021**, 38, 1721-1723	3.4	2
14	Fertility technologies and how to optimize laboratory performance to support the shortening of time to birth of a healthy singleton: a Delphi consensus. *Journal of Assisted Reproduction and Genetics*, **2021**, 38, 1021-1043	3.4	2

13	Embryo morphokinetic score is associated with biomarkers of developmental competence and implantation. *Journal of Assisted Reproduction and Genetics*, **2021**, 38, 1737-1743	3.4	1
12	Slow Freezing of Oocytes **2012**, 509-515		1
11	Does morphological assessment predict oocyte developmental competence? A systematic review and proposed score.. *Journal of Assisted Reproduction and Genetics*, **2022**, 39, 3	3.4	0
10	Spatiotemporal perturbations of pronuclear breakdown preceding syngamy affect early human embryo development: a retrospective observational study. *Journal of Assisted Reproduction and Genetics*, **2021**, 39, 75	3.4	0
9	Oocyte aging: looking beyond chromosome segregation errors.. *Journal of Assisted Reproduction and Genetics*, **2022**, 1	3.4	0
8	Fine-tuning IVF laboratory key performance indicators of the Vienna consensus according to female age.. *Journal of Assisted Reproduction and Genetics*, **2022**, 1	3.4	0
7	Slow Freezing of Oocytes **2019**, 655-664		
6	Cryopreservation of oocytes by slow cooling120-130		
5	The human oocyte **2008**, 255-266		
4	Cryopreservation and the Cytoskeleton of the Human Oocyte. *Reproductive Medicine and Assisted Reproductive Techniques Series*, **2009**, 162-173		
3	Slow Freezing of Oocytes **2013**, 467-476		
2	The Association of Kinetic Variables with Blastocyst Development and Ploidy Status.. *Journal of Reproduction and Infertility*, **2021**, 22, 159-164	1.5	
1	Use of mineral oil in IVF culture systems: physico-chemical aspects, management, and safety.. *Journal of Assisted Reproduction and Genetics*, **2022**, 39, 883	3.4	