

Jonathan Van Blerkom

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/939202/publications.pdf>

Version: 2024-02-01

45
papers

4,274
citations

201575

27
h-index

302012

39
g-index

46
all docs

46
docs citations

46
times ranked

2462
citing authors

#	ARTICLE	IF	CITATIONS
1	Fertilization and early embryology: ATP content of human oocytes and developmental potential and outcome after in-vitro fertilization and embryo transfer. <i>Human Reproduction</i> , 1995, 10, 415-424.	0.4	610
2	Mitochondrial function in the human oocyte and embryo and their role in developmental competence. <i>Mitochondrion</i> , 2011, 11, 797-813.	1.6	510
3	Mitochondria in human oogenesis and preimplantation embryogenesis: engines of metabolism, ionic regulation and developmental competence. <i>Reproduction</i> , 2004, 128, 269-280.	1.1	309
4	Differential mitochondrial distribution in human pronuclear embryos leads to disproportionate inheritance between blastomeres: relationship to microtubular organization, ATP content and competence. <i>Human Reproduction</i> , 2000, 15, 2621-2633.	0.4	273
5	Domains of high-polarized and low-polarized mitochondria may occur in mouse and human oocytes and early embryos. <i>Human Reproduction</i> , 2002, 17, 393-406.	0.4	238
6	Mitochondrial reorganization during resumption of arrested meiosis in the mouse oocyte. <i>American Journal of Anatomy</i> , 1984, 171, 335-355.	0.9	209
7	Mitochondria in early mammalian development. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 354-364.	2.3	155
8	Cytogenetic, cellular, and developmental consequences of cryopreservation of immature and mature mouse and human oocytes. <i>Microscopy Research and Technique</i> , 1994, 27, 165-193.	1.2	151
9	A microscopic and biochemical study of fragmentation phenotypes in stage-appropriate human embryos. <i>Human Reproduction</i> , 2001, 16, 719-729.	0.4	149
10	Cryopreservation of metaphase II human oocytes effects mitochondrial membrane potential: implications for developmental competence. <i>Human Reproduction</i> , 2004, 19, 1861-1866.	0.4	142
11	Qualitative patterns of protein synthesis in the preimplantation mouse embryo. <i>Developmental Biology</i> , 1975, 44, 148-157.	0.9	135
12	Occurrence and developmental consequences of aberrant cellular organization in meiotically mature human oocytes after exogenous ovarian hyperstimulation. <i>Journal of Electron Microscopy</i> Technique, 1990, 16, 324-346.	1.1	121
13	Mitochondria as regulatory forces in oocytes, preimplantation embryos and stem cells. <i>Reproductive BioMedicine Online</i> , 2008, 16, 553-569.	1.1	107
14	Inner mitochondrial membrane potential ($\Delta\Delta m$), cytoplasmic ATP content and free Ca^{2+} levels in metaphase II mouse oocytes. <i>Human Reproduction</i> , 2003, 18, 2429-2440.	0.4	106
15	Mitochondrial signaling and fertilization. <i>Molecular Human Reproduction</i> , 2007, 13, 759-770.	1.3	106
16	Development of preimplantation rabbit embryos in vivo and in vitro. <i>Developmental Biology</i> , 1973, 35, 262-282.	0.9	93
17	Epigenetic influences on oocyte developmental competence: perfollicular vascularity and intrafollicular oxygen. <i>Journal of Assisted Reproduction and Genetics</i> , 1998, 15, 226-234.	1.2	78
18	Development of preimplantation rabbit embryos in vivo and in vitro. <i>Developmental Biology</i> , 1974, 40, 40-51.	0.9	69

#	ARTICLE	IF	CITATIONS
19	First births with a simplified culture system for clinical IVF and embryo transfer. <i>Reproductive BioMedicine Online</i> , 2014, 28, 310-320.	1.1	69
20	Patterns of polypeptide synthesis of porcine oocytes during maturation in vitro. <i>Developmental Biology</i> , 1977, 56, 241-254.	0.9	66
21	High-polarized ($\hat{\Gamma}\hat{\Gamma}$ mHIGH) mitochondria are spatially polarized in human oocytes and early embryos in stable subplasmalemmal domains: developmental significance and the concept of vanguard mitochondria. <i>Reproductive BioMedicine Online</i> , 2006, 13, 246-254.	1.1	64
22	A scanning electron microscopic study of the luteo-follicular complex. II. Events leading to ovulation. <i>American Journal of Anatomy</i> , 1975, 143, 241-263.	0.9	62
23	Regulatory roles for mitochondria in the peri-implantation mouse blastocyst: possible origins and developmental significance of differential $\hat{\Gamma}\hat{\Gamma}$ m. <i>Reproduction</i> , 2006, 131, 961-976.	1.1	59
24	Regulation of mitochondrial polarity in mouse and human oocytes: the influence of cumulus derived nitric oxide. <i>Molecular Human Reproduction</i> , 2008, 14, 431-444.	1.3	44
25	Cellular and developmental biological aspects of bovine meiotic maturation, fertilization, and preimplantation embryogenesis in vitro. <i>Journal of Electron Microscopy Technique</i> , 1990, 16, 298-323.	1.1	42
26	A plea for caution and more research in the "experimental" use of ionophores in ICSI. <i>Reproductive BioMedicine Online</i> , 2015, 30, 323-324.	1.1	41
27	The fine structural development of preimplantation mouse parthenotes. <i>The Journal of Experimental Zoology</i> , 1976, 196, 113-123.	1.4	31
28	Morphodynamics of outgrowths of mouse trophoblast in the presence and absence of a monolayer of uterine epithelium. <i>American Journal of Anatomy</i> , 1981, 162, 143-155.	0.9	27
29	A scanning electron microscopic study of the luteo-follicular complex. <i>Cell and Tissue Research</i> , 1978, 189, 131-153.	1.5	26
30	Molecular differentiation of the rabbit ovum. <i>Developmental Biology</i> , 1979, 72, 188-194.	0.9	26
31	Occurrence of maternal and paternal spindles in unfertilized human oocytes: possible relationship to nucleation defects after silent fertilization. <i>Reproductive BioMedicine Online</i> , 2004, 8, 454-459.	1.1	24
32	Qualitative patterns of protein synthesis in the preimplantation mouse embryo. <i>Developmental Biology</i> , 1975, 46, 446-451.	0.9	23
33	Molecular and Cellular Aspects of Facultative Delayed Implantation in the Mouse. <i>Novartis Foundation Symposium</i> , 1979, , 141-172.	1.2	21
34	Sperm attachment and penetration competence in the human oocyte: a possible aetiology of fertilization failure involving the organization of oolemmal lipid raft microdomains influenced by the $\hat{\Gamma}\hat{\Gamma}$ m of subplasmalemmal mitochondria. <i>Reproductive BioMedicine Online</i> , 2013, 27, 690-701.	1.1	18
35	Persistence of embryonic RNA synthesis during facultative delayed implantation in the mouse. <i>Developmental Biology</i> , 1979, 70, 39-49.	0.9	17
36	Translocation of the subplasmalemmal cytoplasm in human blastomeres: possible effects on the distribution and inheritance of regulatory domains. <i>Reproductive BioMedicine Online</i> , 2007, 14, 191-200.	1.1	15

#	ARTICLE	IF	CITATIONS
37	Intrinsic and Extrinsic Patterns of Molecular Differentiation during Oogenesis, Embryogenesis, and Organogenesis in Mammals. , 1981, , 155-176.		13
38	Dispermic fertilization of human oocytes. Journal of Electron Microscopy Technique, 1991, 17, 437-449.	1.1	8
39	Ganglioside-enriched microdomains define an oolemma that is functionally polarized with respect to fertilizability in the mouse. Reproductive BioMedicine Online, 2016, 33, 458-475.	1.1	8
40	Computer-assisted analysis demonstrates that polypeptides induced by natural and recombinant human interferon- β are the same and that some have related primary structures. Antiviral Research, 1983, 3, 303-314.	1.9	6
41	The Role of the Plasma Membrane and Pericortical Cytoplasm in Early Mammalian Development. , 2013, , 265-287.		2
42	The Role of Mitochondria in the Establishment of Developmental Competence in Early Human Development. , 2012, , 641-657.		1
43	An overview of determinants of oocyte and embryo developmental competence: specificity, accuracy and applicability in clinical IVF. , 2008, , 17-50.		0
44	Mitochondrial Activity as a Biomarker of Gamete and Embryo Health. , 2013, , 239-257.		0
45	The Role of Mitochondria in the Establishment of Developmental Competence in Early Human Development. , 2013, , 319-345.		0