

Jonathan Van Blerkom

List of Publications by Citations

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45
papers

3,632
citations

26
h-index

46
g-index

46
ext. papers

3,890
ext. citations

4
avg, IF

5.73
L-index

#	Paper	IF	Citations
45	ATP content of human oocytes and developmental potential and outcome after in-vitro fertilization and embryo transfer. <i>Human Reproduction</i> , 1995 , 10, 415-24	5.7	516
44	Mitochondrial function in the human oocyte and embryo and their role in developmental competence. <i>Mitochondrion</i> , 2011 , 11, 797-813	4.9	398
43	Mitochondria in human oogenesis and preimplantation embryogenesis: engines of metabolism, ionic regulation and developmental competence. <i>Reproduction</i> , 2004 , 128, 269-80	3.8	270
42	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, 2621-33	5.7	233
41	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	5.7	202
40	Mitochondrial reorganization during resumption of arrested meiosis in the mouse oocyte. <i>American Journal of Anatomy</i> , 1984 , 171, 335-55		188
39	A microscopic and biochemical study of fragmentation phenotypes in stage-appropriate human embryos. <i>Human Reproduction</i> , 2001 , 16, 719-29	5.7	135
38	Mitochondria in early mammalian development. <i>Seminars in Cell and Developmental Biology</i> , 2009 , 20, 354-64	7.5	132
37	Cytogenetic, cellular, and developmental consequences of cryopreservation of immature and mature mouse and human oocytes. <i>Microscopy Research and Technique</i> , 1994 , 27, 165-93	2.8	131
36	Cryopreservation of metaphase II human oocytes effects mitochondrial membrane potential: implications for developmental competence. <i>Human Reproduction</i> , 2004 , 19, 1861-6	5.7	128
35	Qualitative patterns of protein synthesis in the preimplantation mouse embryo. I. Normal pregnancy. <i>Developmental Biology</i> , 1975 , 44, 148-57	3.1	124
34	Occurrence and developmental consequences of aberrant cellular organization in meiotically mature human oocytes after exogenous ovarian hyperstimulation. <i>Journal of Electron Microscopy Technique</i> , 1990 , 16, 324-46		103
33	Mitochondria as regulatory forces in oocytes, preimplantation embryos and stem cells. <i>Reproductive BioMedicine Online</i> , 2008 , 16, 553-69	4	97
32	Development of preimplantation rabbit embryos in vivo and in vitro. I. An ultrastructural comparison. <i>Developmental Biology</i> , 1973 , 35, 262-82	3.1	89
31	Mitochondrial signaling and fertilization. <i>Molecular Human Reproduction</i> , 2007 , 13, 759-70	4.4	88
30	Inner mitochondrial membrane potential (DeltaPsi _m), cytoplasmic ATP content and free Ca ²⁺ levels in metaphase II mouse oocytes. <i>Human Reproduction</i> , 2003 , 18, 2429-40	5.7	87
29	Epigenetic influences on oocyte developmental competence: perifollicular vascularity and intrafollicular oxygen. <i>Journal of Assisted Reproduction and Genetics</i> , 1998 , 15, 226-34	3.4	61

28	High-polarized (Delta Psi m(HIGH)) 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, 246-54	4	61
27	Development of preimplantation rabbit embryos in vivo and in vitro. <i>Developmental Biology</i> , 1974 , 40, 40-51	3.1	59
26	Patterns of polypeptide synthesis of porcine oocytes during maturation in vitro. <i>Developmental Biology</i> , 1977 , 56, 241-54	3.1	58
25	Regulatory roles for mitochondria in the peri-implantation mouse blastocyst: possible origins and developmental significance of differential DeltaPsim. <i>Reproduction</i> , 2006 , 131, 961-76	3.8	57
24	A scanning electron microscopic study of the luteo-follicular complex. II. Events leading to ovulation. <i>American Journal of Anatomy</i> , 1975 , 143, 241-63		50
23	First births with a simplified culture system for clinical IVF and embryo transfer. <i>Reproductive BioMedicine Online</i> , 2014 , 28, 310-20	4	48
22	Regulation of mitochondrial polarity in mouse and human oocytes: the influence of cumulus derived nitric oxide. <i>Molecular Human Reproduction</i> , 2008 , 14, 431-44	4.4	40
21	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		38
20	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, 143-55		26
19	The fine structural development of preimplantation mouse parthenotes. <i>The Journal of Experimental Zoology</i> , 1976 , 196, 113-24		26
18	Molecular differentiation of the rabbit ovum. III. Fertilization-autonomous polypeptide synthesis. <i>Developmental Biology</i> , 1979 , 72, 188-94	3.1	22
17	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, 454-9	4	19
16	A scanning electron microscopic study of the luteo-follicular complex. III. Repair of ovulated follicle and the formation of the corpus luteum. <i>Cell and Tissue Research</i> , 1978 , 189, 131-53	4.2	18
15	Persistence of embryonic RNA synthesis during facultative delayed implantation in the mouse. <i>Developmental Biology</i> , 1979 , 70, 39-49	3.1	16
14	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	4	15
13	Qualitative patterns of protein synthesis in the preimplantation mouse embryo. II. During release from facultative delayed implantation. <i>Developmental Biology</i> , 1975 , 46, 446-51	3.1	15
12	Intrinsic and Extrinsic Patterns of Molecular Differentiation during Oogenesis, Embryogenesis, and Organogenesis in Mammals 1981 , 155-176		13
11	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 Φ of subplasmalemmal mitochondria. <i>Reproductive BioMedicine Online</i> , 2013 , 27, 690-701	4	12

10	Dispermic fertilization of human oocytes. <i>Journal of Electron Microscopy Technique</i> , 1991 , 17, 437-49		8
9	Molecular and cellular aspects of facultative delayed implantation in the mouse. <i>Novartis Foundation Symposium</i> , 1978 , 141-72		8
8	Computer-assisted analysis demonstrates that polypeptides induced by natural and recombinant human interferon-alpha are the same and that some have related primary structures. <i>Antiviral Research</i> , 1983 , 3, 303-14	10.8	6
7	Ganglioside-enriched microdomains define an oolemma that is functionally polarized with respect to fertilizability in the mouse. <i>Reproductive BioMedicine Online</i> , 2016 , 33, 458-475	4	4
6	The Role of Mitochondria in the Establishment of Developmental Competence in Early Human Development 2012 , 641-657		1
5	The Role of the Plasma Membrane and Pericortical Cytoplasm in Early Mammalian Development 2013 , 265-287		1
4	The Role of Mitochondria in the Establishment of Developmental Competence in Early Human Development 2019 , 897-913		
3	Mitochondrial Activity as a Biomarker of Gamete and Embryo Health 2013 , 239-257		
2	An overview of determinants of oocyte and embryo developmental competence: specificity, accuracy and applicability in clinical IVF17-50		
1	The Role of Mitochondria in the Establishment of Developmental Competence in Early Human Development 2013 , 319-345		