

Carmen J Williams

List of Publications by Year in descending order

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86
papers

4,248
citations

94269

37
h-index

114278

63
g-index

88
all docs

88
docs citations

88
times ranked

5020
citing authors

#	ARTICLE	IF	CITATIONS
1	The "Soluble" Adenylyl Cyclase in Sperm Mediates Multiple Signaling Events Required for Fertilization. <i>Developmental Cell</i> , 2005, 9, 249-259.	3.1	353
2	Long-term effects of culture of preimplantation mouse embryos on behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1595-1600.	3.3	256
3	The Circadian Clock Protein BMAL1 Is Necessary for Fertility and Proper Testosterone Production in Mice. <i>Journal of Biological Rhythms</i> , 2008, 23, 26-36.	1.4	223
4	Transgenic RNA Interference Reveals Role for Mouse Sperm Phospholipase C β in Triggering Ca ²⁺ Oscillations During Fertilization. <i>Biology of Reproduction</i> , 2005, 72, 992-996.	1.2	165
5	Environmental factors, epigenetics, and developmental origin of reproductive disorders. <i>Reproductive Toxicology</i> , 2017, 68, 85-104.	1.3	161
6	Reproductive consequences of developmental phytoestrogen exposure. <i>Reproduction</i> , 2012, 143, 247-260.	1.1	148
7	INO80 Facilitates Pluripotency Gene Activation in Embryonic Stem Cell Self-Renewal, Reprogramming, and Blastocyst Development. <i>Cell Stem Cell</i> , 2014, 14, 575-591.	5.2	148
8	The Science of ART. <i>Science</i> , 2002, 296, 2188-2190.	6.0	142
9	Calcium influx-mediated signaling is required for complete mouse egg activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4169-4174.	3.3	120
10	Calcium signaling in mammalian egg activation and embryo development: The influence of subcellular localization. <i>Molecular Reproduction and Development</i> , 2012, 79, 742-756.	1.0	92
11	Persistently Altered Epigenetic Marks in the Mouse Uterus After Neonatal Estrogen Exposure. <i>Molecular Endocrinology</i> , 2013, 27, 1666-1677.	3.7	87
12	Neonatal Exposure to Genistein Disrupts Ability of Female Mouse Reproductive Tract to Support Preimplantation Embryo Development and Implantation. <i>Biology of Reproduction</i> , 2009, 80, 425-431.	1.2	86
13	The THO Complex Regulates Pluripotency Gene mRNA Export and Controls Embryonic Stem Cell Self-Renewal and Somatic Cell Reprogramming. <i>Cell Stem Cell</i> , 2013, 13, 676-690.	5.2	85
14	Role of G proteins in mouse egg activation: Stimulatory effects of acetylcholine on the ZP2 to ZP2f conversion and pronuclear formation in eggs expressing a functional m1 muscarinic receptor. <i>Developmental Biology</i> , 1992, 151, 288-296.	0.9	81
15	Alterations of PLC β 1 in mouse eggs change calcium oscillatory behavior following fertilization. <i>Developmental Biology</i> , 2007, 312, 321-330.	0.9	78
16	Maturation-associated increase in IP3 receptor type 1: role in conferring increased IP3 sensitivity and Ca ²⁺ oscillatory behavior in mouse eggs. <i>Developmental Biology</i> , 2003, 254, 163-171.	0.9	75
17	Signalling mechanisms of mammalian oocyte activation. <i>Human Reproduction Update</i> , 2002, 8, 313-321.	5.2	73
18	Methionine metabolism is essential for SIRT1-regulated mouse embryonic stem cell maintenance and embryonic development. <i>EMBO Journal</i> , 2017, 36, 3175-3193.	3.5	71

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19	Chromatin-mediated cortical granule redistribution is responsible for the formation of the cortical granule-free domain in mouse eggs. <i>Developmental Biology</i> , 2003, 257, 166-176.	0.9	70
20	Circulating levels of genistein in the neonate, apart from dose and route, predict future adverse female reproductive outcomes. <i>Reproductive Toxicology</i> , 2011, 31, 272-279.	1.3	70
21	Involvement of Calcium Signaling and the Actin Cytoskeleton in the Membrane Block to Polyspermy in Mouse Eggs. <i>Biology of Reproduction</i> , 2002, 67, 1342-1352.	1.2	68
22	Oviductal estrogen receptor β signaling prevents protease-mediated embryo death. <i>ELife</i> , 2015, 4, e10453.	2.8	67
23	Calmodulin-dependent protein kinase II triggers mouse egg activation and embryo development in the absence of Ca ²⁺ oscillations. <i>Developmental Biology</i> , 2006, 296, 388-395.	0.9	65
24	Role of MAP kinase and myosin light chain kinase in chromosome-induced development of mouse egg polarity. <i>Developmental Biology</i> , 2005, 278, 358-366.	0.9	64
25	Expression profile of male germ cell-associated genes in mouse embryonic stem cell cultures treated with all-trans retinoic acid and testosterone. <i>Molecular Reproduction and Development</i> , 2009, 76, 11-21.	1.0	64
26	PAR-3 defines a central subdomain of the cortical actin cap in mouse eggs. <i>Developmental Biology</i> , 2005, 280, 38-47.	0.9	62
27	p53 convergently activates Dux/DUX4 in embryonic stem cells and in facioscapulohumeral muscular dystrophy cell models. <i>Nature Genetics</i> , 2021, 53, 1207-1220.	9.4	59
28	Epithelial membrane protein-2 regulates surface expression of α 3 integrin in the endometrium. <i>Developmental Biology</i> , 2005, 287, 336-345.	0.9	57
29	Bisphenol A Exposure Alters Developmental Gene Expression in the Fetal Rhesus Macaque Uterus. <i>PLoS ONE</i> , 2014, 9, e85894.	1.1	49
30	Calreticulin on the mouse egg surface mediates transmembrane signaling linked to cell cycle resumption. <i>Developmental Biology</i> , 2004, 270, 246-260.	0.9	47
31	Expression of epithelial membrane protein-2 is associated with endometrial adenocarcinoma of unfavorable outcome. <i>Cancer</i> , 2006, 107, 90-98.	2.0	44
32	Requirements for Glucose Beyond Sperm Capacitation During In Vitro Fertilization in the Mouse. <i>Biology of Reproduction</i> , 2004, 71, 139-145.	1.2	43
33	Establishment of the mammalian membrane block to polyspermy: evidence for calcium-dependent and -independent regulation. <i>Reproduction</i> , 2007, 133, 383-393.	1.1	42
34	Knockdown of the tetraspan protein epithelial membrane protein-2 inhibits implantation in the mouse. <i>Developmental Biology</i> , 2006, 292, 430-441.	0.9	41
35	Extracellular Adenosine 5'-Triphosphate Alters Motility and Improves the Fertilizing Capability of Mouse Sperm. <i>Biology of Reproduction</i> , 2008, 79, 164-171.	1.2	41
36	AKAP7 β is a nuclear RI-binding AKAP. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 394-401.	1.0	40

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37	Genomic Imprinting and Assisted Reproductive Technology: Connections and Potential Risks. <i>Seminars in Reproductive Medicine</i> , 2005, 23, 285-295.	0.5	40
38	TRPM7 and Ca _v 3.2 channels mediate Ca ²⁺ influx required for egg activation at fertilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10370-E10378.	3.3	40
39	CaV3.2 T-type channels mediate Ca ²⁺ entry during oocyte maturation and following fertilization. <i>Journal of Cell Science</i> , 2015, 128, 4442-52.	1.2	36
40	Soy Formula and Epigenetic Modifications: Analysis of Vaginal Epithelial Cells from Infant Girls in the IFED Study. <i>Environmental Health Perspectives</i> , 2017, 125, 447-452.	2.8	36
41	G protein gene expression during mouse oocyte growth and maturation, and preimplantation embryo development. <i>Molecular Reproduction and Development</i> , 1996, 44, 315-323.	1.0	35
42	Phosphorylated MARCKS: A novel centrosome component that also defines a peripheral subdomain of the cortical actin cap in mouse eggs. <i>Developmental Biology</i> , 2005, 280, 26-37.	0.9	34
43	Disruption of the upper female reproductive tract epithelium by nonoxynol-9. <i>Contraception</i> , 2003, 68, 273-279.	0.8	33
44	Store-operated Ca ²⁺ entry is not required for fertilization-induced Ca ²⁺ signaling in mouse eggs. <i>Cell Calcium</i> , 2017, 65, 63-72.	1.1	33
45	A-Kinase Anchor Proteins as Potential Regulators of Protein Kinase A Function in Oocytes1. <i>Biology of Reproduction</i> , 2002, 67, 981-987.	1.2	32
46	Permanent Oviduct Posteriorization after Neonatal Exposure to the Phytoestrogen Genistein. <i>Environmental Health Perspectives</i> , 2011, 119, 1575-1582.	2.8	32
47	SIX1 Oncoprotein as a Biomarker in a Model of Hormonal Carcinogenesis and in Human Endometrial Cancer. <i>Molecular Cancer Research</i> , 2016, 14, 849-858.	1.5	32
48	Effects of Extracellular Adenosine 5'-Triphosphate on Human Sperm Motility. <i>Reproductive Sciences</i> , 2007, 14, 655-666.	1.1	31
49	CNOT3-Dependent mRNA Deadenylation Safeguards the Pluripotent State. <i>Stem Cell Reports</i> , 2016, 7, 897-910.	2.3	29
50	Knockdown of the cAMP-dependent protein kinase (PKA) Type I β regulatory subunit in mouse oocytes disrupts meiotic arrest and results in meiotic spindle defects. <i>Developmental Dynamics</i> , 2006, 235, 2961-2968.	0.8	28
51	The effect of blastomere biopsy on preimplantation mouse embryo development and global gene expression. <i>Fertility and Sterility</i> , 2009, 91, 1462-1465.	0.5	28
52	Steroid hormone regulation of EMP2 expression and localization in the endometrium. <i>Reproductive Biology and Endocrinology</i> , 2008, 6, 15.	1.4	25
53	Epithelial membrane protein 2 (EMP2) deficiency alters placental angiogenesis, mimicking features of human placental insufficiency. <i>Journal of Pathology</i> , 2017, 242, 246-259.	2.1	25
54	Widespread enhancer activation via ER β mediates estrogen response in vivo during uterine development. <i>Nucleic Acids Research</i> , 2018, 46, 5487-5503.	6.5	25

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55	Sperm-egg fusion unscrambled. <i>Nature</i> , 2005, 434, 152-153.	13.7	24
56	Mediator complex component MED13 regulates zygotic genome activation and is required for postimplantation development in the mouse. <i>Biology of Reproduction</i> , 2018, 98, 449-464.	1.2	23
57	Transducin-Like Enhancer of Split-6 (TLE6) Is a Substrate of Protein Kinase A Activity During Mouse Oocyte Maturation1. <i>Biology of Reproduction</i> , 2014, 90, 63.	1.2	21
58	DNA methylation and transcriptome aberrations mediated by ER α in mouse seminal vesicles following developmental DES exposure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4189-E4198.	3.3	18
59	Proteins of the acrosomal region in mouse sperm: Immunological probes reveal post-testicular modifications. <i>Gamete Research</i> , 1989, 23, 21-37.	1.7	17
60	Neonatal Phytoestrogen Exposure Alters Oviduct Mucosal Immune Response to Pregnancy and Affects Preimplantation Embryo Development in the Mouse1. <i>Biology of Reproduction</i> , 2012, 87, 10, 1-10.	1.2	16
61	The Ovarian Life Cycle. , 2009, , 155-190.		15
62	Differentiation Patterns of Uterine Carcinomas and Precursor Lesions Induced by Neonatal Estrogen Exposure in Mice. <i>Toxicologic Pathology</i> , 2018, 46, 574-596.	0.9	15
63	Metastasis-Associated Protein 3 (MTA3) Regulates G2/M Progression in Proliferating Mouse Granulosa Cells1. <i>Biology of Reproduction</i> , 2012, 86, 1-8.	1.2	14
64	Neonatal phytoestrogen exposure causes hypospadias in female mice. <i>Molecular Reproduction and Development</i> , 2012, 79, 3-3.	1.0	10
65	SIX1 Regulates Aberrant Endometrial Epithelial Cell Differentiation and Cancer Latency Following Developmental Estrogenic Chemical Exposure. <i>Molecular Cancer Research</i> , 2019, 17, 2369-2382.	1.5	10
66	Hormonal contraceptive use before and after conception in relation to preterm birth and small for gestational age: an observational cohort study. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2015, 122, 1349-1361.	1.1	9
67	Regulator of G-protein signaling 2 (RGS2) suppresses premature calcium release in mouse eggs. <i>Development (Cambridge)</i> , 2015, 142, 2633-40.	1.2	8
68	Prenatal Bisphenol A Exposure Alters Epithelial Cell Composition in the Rhesus Macaque Fetal Oviduct. <i>Toxicological Sciences</i> , 2019, 167, 450-457.	1.4	8
69	The Ovarian Life Cycle. , 2014, , 157-191.e8.		7
70	Maternal hormonal contraceptive use and offspring overweight or obesity. <i>International Journal of Obesity</i> , 2014, 38, 1275-1281.	1.6	7
71	Differential RNA expression and polyribosome loading of alternative transcripts of the <i>Akap4</i> gene in murine spermatids. <i>Molecular Reproduction and Development</i> , 2005, 70, 397-405.	1.0	3
72	Transgenic RNAi: A tool to study testis-specific genes. <i>Molecular and Cellular Endocrinology</i> , 2006, 247, 1-3.	1.6	3

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73	Early mouse embryo asymmetry. <i>Molecular Reproduction and Development</i> , 2012, 79, 433-433.	1.0	3
74	LUTs of blastocyst nuclei for quantification. <i>Molecular Reproduction and Development</i> , 2016, 83, 575-575.	1.0	2
75	Evidence That GqFamily G Proteins Do Not Function in Mouse Egg Activation at Fertilization. <i>Developmental Biology</i> , 1998, 198, 116-127.	0.9	1
76	A novel adenylyl cyclase in oocytes and embryos.. <i>Fertility and Sterility</i> , 2001, 76, S262.	0.5	1
77	In the fetal rhesus monkey uterus, in utero exposure to whom it may concern: bisphenol A (BPA) is associated with changes in gene expression and accelerated adenogenesis. <i>Fertility and Sterility</i> , 2012, 98, S32-S33.	0.5	1
78	Mouse strain-dependent egg factors regulate calcium signals at fertilization. <i>Molecular Reproduction and Development</i> , 2020, 87, 284-292.	1.0	1
79	Inhibition of EMP2 expression prevents mouse blastocyst attachment in vitro and implantation in vivo. <i>Fertility and Sterility</i> , 2002, 78, S4.	0.5	0
80	Meet the Editors. <i>Molecular Reproduction and Development</i> , 2009, 76, NA-NA.	1.0	0
81	MR&D: The conference, 2009. <i>Molecular Reproduction and Development</i> , 2009, 76, .	1.0	0
82	On the shoulders of giants: Robert G. Edwards, Nobel Laureate. <i>Molecular Reproduction and Development</i> , 2010, 77, .	1.0	0
83	Lou Guillette: Scientist and communicator par excellence. <i>Molecular Reproduction and Development</i> , 2015, 82, Fmi-Fmv.	1.0	0
84	Hormonal and epigenetic control of PRICKLE1 - rest pathway in uterine fibroids. <i>Fertility and Sterility</i> , 2018, 110, e139.	0.5	0
85	<i>In Utero</i> Exposure to Bisphenol A (BPA) in Late Pregnancy Alters Uterine Expression of <i>HOX</i> and <i>WNT</i> Genes in Female Rhesus Monkeys at Birth. , 2011, , OR34-1-OR34-1.		0
86	Outside-in Calcium Signaling Is Required for Mouse Egg Activation.. <i>Biology of Reproduction</i> , 2011, 85, 601-601.	1.2	0