

Rebecca L Robker

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

6,489
citations

42
h-index

80
g-index

94
ext. papers

7,427
ext. citations

5.5
avg. IF

5.83
L-index

#	Paper	IF	Citations
84	Mitochondria-targeted therapeutics, MitoQ and BGP-15, reverse aging-associated meiotic spindle defects in mouse and human oocytes. <i>Human Reproduction</i> , 2021 , 36, 771-784	5.7	14
83	Sex-Specific Control of Human Heart Maturation by the Progesterone Receptor. <i>Circulation</i> , 2021 , 143, 1614-1628	16.7	6
82	Effect of obesity on the ovarian follicular environment and developmental competence of the oocyte. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2021 , 18, 152-158	1.7	1
81	Arrdc4-dependent extracellular vesicle biogenesis is required for sperm maturation. <i>Journal of Extracellular Vesicles</i> , 2021 , 10, e12113	16.4	6
80	Pubertal mammary gland development is a key determinant of adult mammographic density. <i>Seminars in Cell and Developmental Biology</i> , 2021 , 114, 143-158	7.5	5
79	Development of Automated Microscopy-Assisted High-Content Multiparametric Assays for Cell Cycle Staging and Foci Quantitation. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020 , 97, 378-393	4.6	1
78	The spatio-temporal dynamics of mitochondrial membrane potential during oocyte maturation. <i>Molecular Human Reproduction</i> , 2019 , 25, 695-705	4.4	23
77	Transgenerational Obesity and Healthy Aging in Drosophila. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019 , 74, 1582-1589	6.4	3
76	Differential impacts of gonadotrophins, IVF and embryo culture on mouse blastocyst development. <i>Reproductive BioMedicine Online</i> , 2019 , 39, 372-382	4	5
75	A Hyperandrogenic Environment Causes Intrinsic Defects That Are Detrimental to Follicular Dynamics in a PCOS Mouse Model. <i>Endocrinology</i> , 2019 , 160, 699-715	4.8	14
74	OR08-1 Context-Specific Chromatin Binding Properties of Progesterone Receptor and Consequential Effects on Gene Expression in Mouse Reproductive Tissues. <i>Journal of the Endocrine Society</i> , 2019 , 3,	0.4	78
73	Ovulation: The Coordination of Intrafollicular Networks to Ensure Oocyte Release 2019 , 217-234		2
72	Regulation of the ovarian inflammatory response at ovulation by nuclear progesterone receptor. <i>American Journal of Reproductive Immunology</i> , 2018 , 79, e12835	3.8	14
71	Cumulus Cells 2018 , 43-46		1
70	Coordination of Ovulation and Oocyte Maturation: A Good Egg at the Right Time. <i>Endocrinology</i> , 2018 , 159, 3209-3218	4.8	49
69	Inflammatory markers in human follicular fluid correlate with lipid levels and Body Mass Index. <i>Journal of Reproductive Immunology</i> , 2018 , 130, 25-29	4.2	21
68	Nonesterified Fatty Acid-Induced Endoplasmic Reticulum Stress in Cattle Cumulus Oocyte Complexes Alters Cell Metabolism and Developmental Competence. <i>Biology of Reproduction</i> , 2016 , 94, 23	3.9	42

67	A Primate-Specific Mediator of Ovulation?. <i>Endocrinology</i> , 2016 , 157, 4209-4211	4.8	2
66	Peri-conception parental obesity, reproductive health, and transgenerational impacts. <i>Trends in Endocrinology and Metabolism</i> , 2015 , 26, 84-90	8.8	71
65	Female offspring sired by diet induced obese male mice display impaired blastocyst development with molecular alterations to their ovaries, oocytes and cumulus cells. <i>Journal of Assisted Reproduction and Genetics</i> , 2015 , 32, 725-35	3.4	18
64	Activation of Mouse Cumulus-Oocyte Complex Maturation In Vitro Through EGF-Like Activity of Versican. <i>Biology of Reproduction</i> , 2015 , 92, 116	3.9	22
63	Hemoglobin: a gas transport molecule that is hormonally regulated in the ovarian follicle in mice and humans. <i>Biology of Reproduction</i> , 2015 , 92, 26	3.9	20
62	Expression and localisation of c-kit and KITL in the adult human ovary. <i>Journal of Ovarian Research</i> , 2015 , 8, 31	5.5	17
61	Distinct localisation of lipids in the ovarian follicular environment. <i>Reproduction, Fertility and Development</i> , 2015 , 27, 593-601	1.8	13
60	Developmental programming of obesity and insulin resistance: does mitochondrial dysfunction in oocytes play a role?. <i>Molecular Human Reproduction</i> , 2015 , 21, 23-30	4.4	30
59	Mouse GDF9 decreases KITL gene expression in human granulosa cells. <i>Endocrine</i> , 2015 , 48, 686-95	4	5
58	Hyperglycaemia and lipid differentially impair mouse oocyte developmental competence. <i>Reproduction, Fertility and Development</i> , 2015 , 27, 583-92	1.8	12
57	Mitochondrial dysfunction in oocytes of obese mothers: transmission to offspring and reversal by pharmacological endoplasmic reticulum stress inhibitors. <i>Development (Cambridge)</i> , 2015 , 142, 681-91	6.6	157
56	Mitochondrial dysfunction in oocytes of obese mothers: transmission to offspring and reversal by pharmacological endoplasmic reticulum stress inhibitors. <i>Journal of Cell Science</i> , 2015 , 128, e1-e1	5.3	
55	Altered glucose metabolism in mouse and humans conceived by IVF. <i>Diabetes</i> , 2014 , 63, 3189-98	0.9	84
54	Parenting from before conception. <i>Science</i> , 2014 , 345, 756-60	33.3	187
53	Lipids and oocyte developmental competence: the role of fatty acids and oxidation. <i>Reproduction</i> , 2014 , 148, R15-27	3.8	201
52	Identification of sites of STAT3 action in the female reproductive tract through conditional gene deletion. <i>PLoS ONE</i> , 2014 , 9, e101182	3.7	19
51	Regulation of fatty acid oxidation in mouse cumulus-oocyte complexes during maturation and modulation by PPAR agonists. <i>PLoS ONE</i> , 2014 , 9, e87327	3.7	91
50	Progesterone receptor-dependent regulation of genes in the oviducts of female mice. <i>Physiological Genomics</i> , 2014 , 46, 583-92	3.6	19

49	A study relating the composition of follicular fluid and blood plasma from individual Holstein dairy cows to the in vitro developmental competence of pooled abattoir-derived oocytes. <i>Theriogenology</i> , 2014 , 82, 95-103	2.8	5
48	Impaired glucose metabolism in response to high fat diet in female mice conceived by in vitro fertilization (IVF) or ovarian stimulation alone. <i>PLoS ONE</i> , 2014 , 9, e113155	3.7	19
47	Altered pregnancy outcomes in mice following treatment with the hyperglycaemia mimetic, glucosamine, during the periconception period. <i>Reproduction, Fertility and Development</i> , 2013 , 25, 405-16 ^{1.8}	1.8	12
46	Suppressor of cytokine signaling 4 (SOCS4): moderator of ovarian primordial follicle activation. <i>Journal of Cellular Physiology</i> , 2012 , 227, 1188-98	7	29
45	Promoting lipid utilization with l-carnitine to improve oocyte quality. <i>Animal Reproduction Science</i> , 2012 , 134, 69-75	2.1	53
44	Heparan sulfate proteoglycans regulate responses to oocyte paracrine signals in ovarian follicle morphogenesis. <i>Endocrinology</i> , 2012 , 153, 4544-55	4.8	44
43	Endoplasmic reticulum (ER) stress in cumulus-oocyte complexes impairs pentraxin-3 secretion, mitochondrial membrane potential ($\Delta\psi_m$), and embryo development. <i>Molecular Endocrinology</i> , 2012 , 26, 562-73		93
42	Utilization of endogenous fatty acid stores for energy production in bovine preimplantation embryos. <i>Theriogenology</i> , 2012 , 77, 1632-41	2.8	68
41	Exposure to lipid-rich follicular fluid is associated with endoplasmic reticulum stress and impaired oocyte maturation in cumulus-oocyte complexes. <i>Fertility and Sterility</i> , 2012 , 97, 1438-43	4.8	108
40	Molecular filtration properties of the mouse expanded cumulus matrix: controlled supply of metabolites and extracellular signals to cumulus cells and the oocyte. <i>Biology of Reproduction</i> , 2012 , 87, 89	3.9	17
39	Transient invasive migration in mouse cumulus oocyte complexes induced at ovulation by luteinizing hormone. <i>Biology of Reproduction</i> , 2012 , 86, 125	3.9	25
38	The impact of obesity on oocytes: evidence for lipotoxicity mechanisms. <i>Reproduction, Fertility and Development</i> , 2011 , 24, 29-34	1.8	54
37	Inflammatory pathways linking obesity and ovarian dysfunction. <i>Journal of Reproductive Immunology</i> , 2011 , 88, 142-8	4.2	92
36	Increased beta-oxidation and improved oocyte developmental competence in response to l-carnitine during ovarian in vitro follicle development in mice. <i>Biology of Reproduction</i> , 2011 , 85, 548-55 ^{3.9}	3.9	75
35	Beta-oxidation is essential for mouse oocyte developmental competence and early embryo development. <i>Biology of Reproduction</i> , 2010 , 83, 909-18	3.9	255
34	ADAMTS1 cleavage of versican mediates essential structural remodeling of the ovarian follicle and cumulus-oocyte matrix during ovulation in mice. <i>Biology of Reproduction</i> , 2010 , 83, 549-57	3.9	106
33	Development and hormonal regulation of the ovarian lymphatic vasculature. <i>Endocrinology</i> , 2010 , 151, 5446-55	4.8	35
32	The mechanistic basis for sexual dysfunction in male transforming growth factor beta1 null mutant mice. <i>Journal of Andrology</i> , 2010 , 31, 95-107		4

31	High-fat diet causes lipotoxicity responses in cumulus-oocyte complexes and decreased fertilization rates. <i>Endocrinology</i> , 2010 , 151, 5438-45	4.8	228
30	Identification of perilipin-2 as a lipid droplet protein regulated in oocytes during maturation. <i>Reproduction, Fertility and Development</i> , 2010 , 22, 1262-71	1.8	42
29	Control of oocyte release by progesterone receptor-regulated gene expression. <i>Nuclear Receptor Signaling</i> , 2009 , 7, e012	1	66
28	Obese women exhibit differences in ovarian metabolites, hormones, and gene expression compared with moderate-weight women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009 , 94, 1533-40	5.6	261
27	Exogenous transforming growth factor beta1 replacement and fertility in male Tgfb1 null mutant mice. <i>Reproduction, Fertility and Development</i> , 2009 , 21, 561-70	1.8	4
26	Evidence that obesity alters the quality of oocytes and embryos. <i>Pathophysiology</i> , 2008 , 15, 115-21	1.8	120
25	Effects of obesity on assisted reproductive technology outcomes. <i>Fertility and Sterility</i> , 2008 , 89, 1611-24.	4.8	17
24	Peroxisome proliferator-activated receptor-gamma agonist rosiglitazone reverses the adverse effects of diet-induced obesity on oocyte quality. <i>Endocrinology</i> , 2008 , 149, 2646-56	4.8	168
23	PPAR Gamma: Coordinating Metabolic and Immune Contributions to Female Fertility. <i>PPAR Research</i> , 2008 , 2008, 243791	4.3	28
22	Ovarian leukocyte distribution and cytokine/chemokine mRNA expression in follicular fluid cells in women with polycystic ovary syndrome. <i>Human Reproduction</i> , 2007 , 22, 527-35	5.7	57
21	Altered composition of the cumulus-oocyte complex matrix during in vitro maturation of oocytes. <i>Human Reproduction</i> , 2007 , 22, 2842-50	5.7	54
20	Molecular mechanisms of ovulation: co-ordination through the cumulus complex. <i>Human Reproduction Update</i> , 2007 , 13, 289-312	15.8	275
19	Null mutation in transforming growth factor beta1 disrupts ovarian function and causes oocyte incompetence and early embryo arrest. <i>Endocrinology</i> , 2006 , 147, 835-45	4.8	63
18	Recombinant human follicle-stimulating hormone alters maternal ovarian hormone concentrations and the uterus and perturbs fetal development in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 291, E761-70	6	27
17	ICAM-1 expression in adipose tissue: effects of diet-induced obesity in mice. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 291, C1232-9	5.4	112
16	Troglitazone regulates peroxisome proliferator-activated receptors and inducible nitric oxide synthase in murine ovarian macrophages. <i>Biology of Reproduction</i> , 2006 , 74, 153-60	3.9	22
15	Requirement for ADAMTS-1 in extracellular matrix remodeling during ovarian folliculogenesis and lymphangiogenesis. <i>Developmental Biology</i> , 2006 , 300, 699-709	3.1	91
14	Macrophage contributions to ovarian function. <i>Human Reproduction Update</i> , 2004 , 10, 119-33	15.8	223

13	Leukocyte migration in adipose tissue of mice null for ICAM-1 and Mac-1 adhesion receptors. <i>Obesity</i> , 2004 , 12, 936-40		52
12	Progesterone-regulated genes in the ovulation process: ADAMTS-1 and cathepsin L proteases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 4689-94	11.5	421
11	Induction of early growth response protein-1 gene expression in the rat ovary in response to an ovulatory dose of human chorionic gonadotropin. <i>Endocrinology</i> , 2000 , 141, 2385-91	4.8	70
10	Ovarian expression of a disintegrin and metalloproteinase with thrombospondin motifs during ovulation in the gonadotropin-primed immature rat. <i>Biology of Reproduction</i> , 2000 , 62, 1090-5	3.9	123
9	Ovulation: a multi-gene, multi-step process. <i>Steroids</i> , 2000 , 65, 559-70	2.8	125
8	The Critical Granulosa Cell Complement: Lessons from the Cyclin D2 Knockout 2000 , 49-58		
7	Molecular mechanisms of ovulation and luteinization. <i>Molecular and Cellular Endocrinology</i> , 1998 , 145, 47-54	4.4	177
6	Hormonal control of the cell cycle in ovarian cells: proliferation versus differentiation. <i>Biology of Reproduction</i> , 1998 , 59, 476-82	3.9	186
5	Hormone-induced proliferation and differentiation of granulosa cells: a coordinated balance of the cell cycle regulators cyclin D2 and p27Kip1. <i>Molecular Endocrinology</i> , 1998 , 12, 924-40		342
4	Hormone induction of progesterone receptor (PR) messenger ribonucleic acid and activation of PR promoter regions in ovarian granulosa cells: evidence for a role of cyclic adenosine 3',5'-phosphate but not estradiol. <i>Molecular Endocrinology</i> , 1998 , 12, 1201-14		61
3	Expression of aromatase in the ovary: down-regulation of mRNA by the ovulatory luteinizing hormone surge. <i>Steroids</i> , 1997 , 62, 197-206	2.8	111
2	Cyclin D2 is an FSH-responsive gene involved in gonadal cell proliferation and oncogenesis. <i>Nature</i> , 1996 , 384, 470-4	50.4	611
1	Obesity and oocyte quality 362-370		0