

# Rebecca L Robker

## List of Publications by Citations

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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	Cyclin D2 is an FSH-responsive gene involved in gonadal cell proliferation and oncogenesis. <i>Nature</i> , <b>1996</b> , 384, 470-4	50.4	611
83	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> , <b>2000</b> , 97, 4689-94	11.5	421
82	Hormone-induced proliferation and differentiation of granulosa cells: a coordinated balance of the cell cycle regulators cyclin D2 and p27Kip1. <i>Molecular Endocrinology</i> , <b>1998</b> , 12, 924-40		342
81	Molecular mechanisms of ovulation: co-ordination through the cumulus complex. <i>Human Reproduction Update</i> , <b>2007</b> , 13, 289-312	15.8	275
80	Obese women exhibit differences in ovarian metabolites, hormones, and gene expression compared with moderate-weight women. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2009</b> , 94, 1533-40	5.6	261
79	Beta-oxidation is essential for mouse oocyte developmental competence and early embryo development. <i>Biology of Reproduction</i> , <b>2010</b> , 83, 909-18	3.9	255
78	High-fat diet causes lipotoxicity responses in cumulus-oocyte complexes and decreased fertilization rates. <i>Endocrinology</i> , <b>2010</b> , 151, 5438-45	4.8	228
77	Macrophage contributions to ovarian function. <i>Human Reproduction Update</i> , <b>2004</b> , 10, 119-33	15.8	223
76	Lipids and oocyte developmental competence: the role of fatty acids and $\beta$ oxidation. <i>Reproduction</i> , <b>2014</b> , 148, R15-27	3.8	201
75	Parenting from before conception. <i>Science</i> , <b>2014</b> , 345, 756-60	33.3	187
74	Hormonal control of the cell cycle in ovarian cells: proliferation versus differentiation. <i>Biology of Reproduction</i> , <b>1998</b> , 59, 476-82	3.9	186
73	Molecular mechanisms of ovulation and luteinization. <i>Molecular and Cellular Endocrinology</i> , <b>1998</b> , 145, 47-54	4.4	177
72	Peroxisome proliferator-activated receptor-gamma agonist rosiglitazone reverses the adverse effects of diet-induced obesity on oocyte quality. <i>Endocrinology</i> , <b>2008</b> , 149, 2646-56	4.8	168
71	Mitochondrial dysfunction in oocytes of obese mothers: transmission to offspring and reversal by pharmacological endoplasmic reticulum stress inhibitors. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 681-91	6.6	157
70	Ovulation: a multi-gene, multi-step process. <i>Steroids</i> , <b>2000</b> , 65, 559-70	2.8	125
69	Ovarian expression of a disintegrin and metalloproteinase with thrombospondin motifs during ovulation in the gonadotropin-primed immature rat. <i>Biology of Reproduction</i> , <b>2000</b> , 62, 1090-5	3.9	123
68	Evidence that obesity alters the quality of oocytes and embryos. <i>Pathophysiology</i> , <b>2008</b> , 15, 115-21	1.8	120

67	ICAM-1 expression in adipose tissue: effects of diet-induced obesity in mice. <i>American Journal of Physiology - Cell Physiology</i> , <b>2006</b> , 291, C1232-9	5.4	112
66	Expression of aromatase in the ovary: down-regulation of mRNA by the ovulatory luteinizing hormone surge. <i>Steroids</i> , <b>1997</b> , 62, 197-206	2.8	111
65	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> , <b>2012</b> , 97, 1438-43	4.8	108
64	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> , <b>2010</b> , 83, 549-57	3.9	106
63	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> , <b>2012</b> , 26, 562-73		93
62	Inflammatory pathways linking obesity and ovarian dysfunction. <i>Journal of Reproductive Immunology</i> , <b>2011</b> , 88, 142-8	4.2	92
61	Regulation of fatty acid oxidation in mouse cumulus-oocyte complexes during maturation and modulation by PPAR agonists. <i>PLoS ONE</i> , <b>2014</b> , 9, e87327	3.7	91
60	Requirement for ADAMTS-1 in extracellular matrix remodeling during ovarian folliculogenesis and lymphangiogenesis. <i>Developmental Biology</i> , <b>2006</b> , 300, 699-709	3.1	91
59	Altered glucose metabolism in mouse and humans conceived by IVF. <i>Diabetes</i> , <b>2014</b> , 63, 3189-98	0.9	84
58	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> , <b>2019</b> , 3,	0.4	78
57	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> , <b>2011</b> , 85, 548-55	3.9	75
56	Peri-conception parental obesity, reproductive health, and transgenerational impacts. <i>Trends in Endocrinology and Metabolism</i> , <b>2015</b> , 26, 84-90	8.8	71
55	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> , <b>2000</b> , 141, 2385-91	4.8	70
54	Utilization of endogenous fatty acid stores for energy production in bovine preimplantation embryos. <i>Theriogenology</i> , <b>2012</b> , 77, 1632-41	2.8	68
53	Control of oocyte release by progesterone receptor-regulated gene expression. <i>Nuclear Receptor Signaling</i> , <b>2009</b> , 7, e012	1	66
52	Null mutation in transforming growth factor beta1 disrupts ovarian function and causes oocyte incompetence and early embryo arrest. <i>Endocrinology</i> , <b>2006</b> , 147, 835-45	4.8	63
51	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'-monophosphate but not estradiol. <i>Molecular Endocrinology</i> , <b>1998</b> , 12, 1201-14		61
50	Ovarian leukocyte distribution and cytokine/chemokine mRNA expression in follicular fluid cells in women with polycystic ovary syndrome. <i>Human Reproduction</i> , <b>2007</b> , 22, 527-35	5.7	57

49	The impact of obesity on oocytes: evidence for lipotoxicity mechanisms. <i>Reproduction, Fertility and Development</i> , <b>2011</b> , 24, 29-34	1.8	54
48	Altered composition of the cumulus-oocyte complex matrix during in vitro maturation of oocytes. <i>Human Reproduction</i> , <b>2007</b> , 22, 2842-50	5.7	54
47	Promoting lipid utilization with l-carnitine to improve oocyte quality. <i>Animal Reproduction Science</i> , <b>2012</b> , 134, 69-75	2.1	53
46	Leukocyte migration in adipose tissue of mice null for ICAM-1 and Mac-1 adhesion receptors. <i>Obesity</i> , <b>2004</b> , 12, 936-40		52
45	Coordination of Ovulation and Oocyte Maturation: A Good Egg at the Right Time. <i>Endocrinology</i> , <b>2018</b> , 159, 3209-3218	4.8	49
44	Heparan sulfate proteoglycans regulate responses to oocyte paracrine signals in ovarian follicle morphogenesis. <i>Endocrinology</i> , <b>2012</b> , 153, 4544-55	4.8	44
43	Nonesterified Fatty Acid-Induced Endoplasmic Reticulum Stress in Cattle Cumulus Oocyte Complexes Alters Cell Metabolism and Developmental Competence. <i>Biology of Reproduction</i> , <b>2016</b> , 94, 23	3.9	42
42	Identification of perilipin-2 as a lipid droplet protein regulated in oocytes during maturation. <i>Reproduction, Fertility and Development</i> , <b>2010</b> , 22, 1262-71	1.8	42
41	Development and hormonal regulation of the ovarian lymphatic vasculature. <i>Endocrinology</i> , <b>2010</b> , 151, 5446-55	4.8	35
40	Developmental programming of obesity and insulin resistance: does mitochondrial dysfunction in oocytes play a role?. <i>Molecular Human Reproduction</i> , <b>2015</b> , 21, 23-30	4.4	30
39	Suppressor of cytokine signaling 4 (SOCS4): moderator of ovarian primordial follicle activation. <i>Journal of Cellular Physiology</i> , <b>2012</b> , 227, 1188-98	7	29
38	PPAR Gamma: Coordinating Metabolic and Immune Contributions to Female Fertility. <i>PPAR Research</i> , <b>2008</b> , 2008, 243791	4.3	28
37	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> , <b>2006</b> , 291, E761-70	6	27
36	Transient invasive migration in mouse cumulus oocyte complexes induced at ovulation by luteinizing hormone. <i>Biology of Reproduction</i> , <b>2012</b> , 86, 125	3.9	25
35	The spatio-temporal dynamics of mitochondrial membrane potential during oocyte maturation. <i>Molecular Human Reproduction</i> , <b>2019</b> , 25, 695-705	4.4	23
34	Activation of Mouse Cumulus-Oocyte Complex Maturation In Vitro Through EGF-Like Activity of Versican. <i>Biology of Reproduction</i> , <b>2015</b> , 92, 116	3.9	22
33	Troglitazone regulates peroxisome proliferator-activated receptors and inducible nitric oxide synthase in murine ovarian macrophages. <i>Biology of Reproduction</i> , <b>2006</b> , 74, 153-60	3.9	22
32	Inflammatory markers in human follicular fluid correlate with lipid levels and Body Mass Index. <i>Journal of Reproductive Immunology</i> , <b>2018</b> , 130, 25-29	4.2	21

31	Hemoglobin: a gas transport molecule that is hormonally regulated in the ovarian follicle in mice and humans. <i>Biology of Reproduction</i> , <b>2015</b> , 92, 26	3.9	20
30	Identification of sites of STAT3 action in the female reproductive tract through conditional gene deletion. <i>PLoS ONE</i> , <b>2014</b> , 9, e101182	3.7	19
29	Progesterone receptor-dependent regulation of genes in the oviducts of female mice. <i>Physiological Genomics</i> , <b>2014</b> , 46, 583-92	3.6	19
28	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> , <b>2014</b> , 9, e113155	3.7	19
27	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> , <b>2015</b> , 32, 725-35	3.4	18
26	Expression and localisation of c-kit and KITL in the adult human ovary. <i>Journal of Ovarian Research</i> , <b>2015</b> , 8, 31	5.5	17
25	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> , <b>2012</b> , 87, 89	3.9	17
24	Effects of obesity on assisted reproductive technology outcomes. <i>Fertility and Sterility</i> , <b>2008</b> , 89, 1611-24.8	4.8	17
23	A Hyperandrogenic Environment Causes Intrinsic Defects That Are Detrimental to Follicular Dynamics in a PCOS Mouse Model. <i>Endocrinology</i> , <b>2019</b> , 160, 699-715	4.8	14
22	Regulation of the ovarian inflammatory response at ovulation by nuclear progesterone receptor. <i>American Journal of Reproductive Immunology</i> , <b>2018</b> , 79, e12835	3.8	14
21	Mitochondria-targeted therapeutics, MitoQ and BGP-15, reverse aging-associated meiotic spindle defects in mouse and human oocytes. <i>Human Reproduction</i> , <b>2021</b> , 36, 771-784	5.7	14
20	Distinct localisation of lipids in the ovarian follicular environment. <i>Reproduction, Fertility and Development</i> , <b>2015</b> , 27, 593-601	1.8	13
19	Hyperglycaemia and lipid differentially impair mouse oocyte developmental competence. <i>Reproduction, Fertility and Development</i> , <b>2015</b> , 27, 583-92	1.8	12
18	Altered pregnancy outcomes in mice following treatment with the hyperglycaemia mimetic, glucosamine, during the periconception period. <i>Reproduction, Fertility and Development</i> , <b>2013</b> , 25, 405-16 <sup>1.8</sup>	1.8	12
17	Sex-Specific Control of Human Heart Maturation by the Progesterone Receptor. <i>Circulation</i> , <b>2021</b> , 143, 1614-1628	16.7	6
16	Arrdc4-dependent extracellular vesicle biogenesis is required for sperm maturation. <i>Journal of Extracellular Vesicles</i> , <b>2021</b> , 10, e12113	16.4	6
15	Differential impacts of gonadotrophins, IVF and embryo culture on mouse blastocyst development. <i>Reproductive BioMedicine Online</i> , <b>2019</b> , 39, 372-382	4	5
14	Mouse GDF9 decreases KITL gene expression in human granulosa cells. <i>Endocrine</i> , <b>2015</b> , 48, 686-95	4	5

13	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> , <b>2014</b> , 82, 95-103	2.8	5
12	Pubertal mammary gland development is a key determinant of adult mammographic density. <i>Seminars in Cell and Developmental Biology</i> , <b>2021</b> , 114, 143-158	7.5	5
11	The mechanistic basis for sexual dysfunction in male transforming growth factor beta1 null mutant mice. <i>Journal of Andrology</i> , <b>2010</b> , 31, 95-107		4
10	Exogenous transforming growth factor beta1 replacement and fertility in male Tgfb1 null mutant mice. <i>Reproduction, Fertility and Development</i> , <b>2009</b> , 21, 561-70	1.8	4
9	Transgenerational Obesity and Healthy Aging in Drosophila. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2019</b> , 74, 1582-1589	6.4	3
8	A Primate-Specific Mediator of Ovulation?. <i>Endocrinology</i> , <b>2016</b> , 157, 4209-4211	4.8	2
7	Ovulation: The Coordination of Intrafollicular Networks to Ensure Oocyte Release <b>2019</b> , 217-234		2
6	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> , <b>2020</b> , 97, 378-393	4.6	1
5	Cumulus Cells <b>2018</b> , 43-46		1
4	Effect of obesity on the ovarian follicular environment and developmental competence of the oocyte. <i>Current Opinion in Endocrine and Metabolic Research</i> , <b>2021</b> , 18, 152-158	1.7	1
3	Obesity and oocyte quality 362-370		0
2	The Critical Granulosa Cell Complement: Lessons from the Cyclin D2 Knockout <b>2000</b> , 49-58		
1	Mitochondrial dysfunction in oocytes of obese mothers: transmission to offspring and reversal by pharmacological endoplasmic reticulum stress inhibitors. <i>Journal of Cell Science</i> , <b>2015</b> , 128, e1-e1	5.3	