

Rebecca L Robker

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

8,200
citations

53660

45
h-index

54797

84
g-index

95
all docs

95
docs citations

95
times ranked

7100
citing authors

#	ARTICLE	IF	CITATIONS
1	Maternal and paternal sugar consumption interact to modify offspring life history and physiology. <i>Functional Ecology</i> , 2022, 36, 1124-1136.	1.7	2
2	Obesity and oocyte quality: significant implications for ART and emerging mechanistic insights. <i>Biology of Reproduction</i> , 2022, 106, 338-350.	1.2	18
3	Intraovarian, Isoform-Specific Transcriptional Roles of Progesterone Receptor in Ovulation. <i>Cells</i> , 2022, 11, 1563.	1.8	5
4	Female reproductive life span is extended by targeted removal of fibrotic collagen from the mouse ovary. <i>Science Advances</i> , 2022, 8, .	4.7	54
5	Depletion of oocyte dynamin-related protein 1 shows maternal-effect abnormalities in embryonic development. <i>Science Advances</i> , 2022, 8, .	4.7	9
6	Pubertal mammary gland development is a key determinant of adult mammographic density. <i>Seminars in Cell and Developmental Biology</i> , 2021, 114, 143-158.	2.3	17
7	Sex-Specific Control of Human Heart Maturation by the Progesterone Receptor. <i>Circulation</i> , 2021, 143, 1614-1628.	1.6	42
8	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.	0.6	4
9	Arndt-dependent extracellular vesicle biogenesis is required for sperm maturation. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12113.	5.5	14
10	HENMT1 is involved in the maintenance of normal female fertility in the mouse. <i>Molecular Human Reproduction</i> , 2021, 27, .	1.3	2
11	Mitochondria-targeted therapeutics, MitoQ and BCP-15, reverse aging-associated meiotic spindle defects in mouse and human oocytes. <i>Human Reproduction</i> , 2021, 36, 771-784.	0.4	54
12	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.	1.1	4
13	The spatio-temporal dynamics of mitochondrial membrane potential during oocyte maturation. <i>Molecular Human Reproduction</i> , 2019, 25, 695-705.	1.3	66
14	Transgenerational Obesity and Healthy Aging in <i>Drosophila</i> . <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 1582-1589.	1.7	8
15	Differential impacts of gonadotrophins, IVF and embryo culture on mouse blastocyst development. <i>Reproductive BioMedicine Online</i> , 2019, 39, 372-382.	1.1	10
16	A Hyperandrogenic Environment Causes Intrinsic Defects That Are Detrimental to Follicular Dynamics in a PCOS Mouse Model. <i>Endocrinology</i> , 2019, 160, 699-715.	1.4	32
17	Ovulation: The Coordination of Intrafollicular Networks to Ensure Oocyte Release. , 2019, , 217-234.		5
18	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, .	0.1	1

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19	Regulation of the ovarian inflammatory response at ovulation by nuclear progesterone receptor. American Journal of Reproductive Immunology, 2018, 79, e12835.	1.2	25
20	Inflammatory markers in human follicular fluid correlate with lipid levels and Body Mass Index. Journal of Reproductive Immunology, 2018, 130, 25-29.	0.8	41
21	Cumulus Cells. , 2018, , 43-46.		4
22	Coordination of Ovulation and Oocyte Maturation: A Good Egg at the Right Time. Endocrinology, 2018, 159, 3209-3218.	1.4	120
23	A Primate-Specific Mediator of Ovulation?. Endocrinology, 2016, 157, 4209-4211.	1.4	2
24	Nonesterified Fatty Acid-Induced Endoplasmic Reticulum Stress in Cattle Cumulus Oocyte Complexes Alters Cell Metabolism and Developmental Competence1. Biology of Reproduction, 2016, 94, 23.	1.2	66
25	Hyperglycaemia and lipid differentially impair mouse oocyte developmental competence. Reproduction, Fertility and Development, 2015, 27, 583.	0.1	15
26	Mitochondrial dysfunction in oocytes of obese mothers: transmission to offspring and reversal by pharmacological endoplasmic reticulum stress inhibitors. Development (Cambridge), 2015, 142, 681-691.	1.2	223
27	Peri-conception parental obesity, reproductive health, and transgenerational impacts. Trends in Endocrinology and Metabolism, 2015, 26, 84-90.	3.1	101
28	Female offspring sired by diet induced obese male mice display impaired blastocyst development with molecular alterations to their ovaries, oocytes and cumulus cells. Journal of Assisted Reproduction and Genetics, 2015, 32, 725-735.	1.2	25
29	Activation of Mouse Cumulus-Oocyte Complex Maturation In Vitro Through EGF-Like Activity of Versican1. Biology of Reproduction, 2015, 92, 116.	1.2	28
30	Hemoglobin: a Gas Transport Molecule That Is Hormonally Regulated in the Ovarian Follicle in Mice and Humans1. Biology of Reproduction, 2015, 92, 26.	1.2	31
31	Expression and localisation of c-kit and KITL in the adult human ovary. Journal of Ovarian Research, 2015, 8, 31.	1.3	22
32	Distinct localisation of lipids in the ovarian follicular environment. Reproduction, Fertility and Development, 2015, 27, 593.	0.1	21
33	Developmental programming of obesity and insulin resistance: does mitochondrial dysfunction in oocytes play a role?. Molecular Human Reproduction, 2015, 21, 23-30.	1.3	47
34	Mouse GDF9 decreases KITL gene expression in human granulosa cells. Endocrine, 2015, 48, 686-695.	1.1	6
35	Mitochondrial dysfunction in oocytes of obese mothers: transmission to offspring and reversal by pharmacological endoplasmic reticulum stress inhibitors. Journal of Cell Science, 2015, 128, e1-e1.	1.2	0
36	Identification of Sites of STAT3 Action in the Female Reproductive Tract through Conditional Gene Deletion. PLoS ONE, 2014, 9, e101182.	1.1	20

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37	Regulation of Fatty Acid Oxidation in Mouse Cumulus-Oocyte Complexes during Maturation and Modulation by PPAR Agonists. <i>PLoS ONE</i> , 2014, 9, e87327.	1.1	117
38	Progesterone receptor-dependent regulation of genes in the oviducts of female mice. <i>Physiological Genomics</i> , 2014, 46, 583-592.	1.0	30
39	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.	0.9	7
40	Altered Glucose Metabolism in Mouse and Humans Conceived by IVF. <i>Diabetes</i> , 2014, 63, 3189-3198.	0.3	108
41	Parenting from before conception. <i>Science</i> , 2014, 345, 756-760.	6.0	244
42	Lipids and oocyte developmental competence: the role of fatty acids and β -oxidation. <i>Reproduction</i> , 2014, 148, R15-R27.	1.1	287
43	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.	1.1	24
44	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.	0.1	12
45	Transient Invasive Migration in Mouse Cumulus Oocyte Complexes Induced at Ovulation by Luteinizing Hormone. <i>Biology of Reproduction</i> , 2012, 86, 125.	1.2	37
46	The impact of obesity on oocytes: evidence for lipotoxicity mechanisms. <i>Reproduction, Fertility and Development</i> , 2012, 24, 29.	0.1	78
47	Promoting lipid utilization with l-carnitine to improve oocyte quality. <i>Animal Reproduction Science</i> , 2012, 134, 69-75.	0.5	73
48	Heparan Sulfate Proteoglycans Regulate Responses to Oocyte Paracrine Signals in Ovarian Follicle Morphogenesis. <i>Endocrinology</i> , 2012, 153, 4544-4555.	1.4	48
49	Endoplasmic Reticulum (ER) Stress in Cumulus-Oocyte Complexes Impairs Pentraxin-3 Secretion, Mitochondrial Membrane Potential ($\Delta\psi$), and Embryo Development. <i>Molecular Endocrinology</i> , 2012, 26, 562-573.	3.7	117
50	Utilization of endogenous fatty acid stores for energy production in bovine preimplantation embryos. <i>Theriogenology</i> , 2012, 77, 1632-1641.	0.9	93
51	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, 1438-1443.	0.5	153
52	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.	1.2	22
53	Suppressor of cytokine signaling 4 (SOCS4): Moderator of ovarian primordial follicle activation. <i>Journal of Cellular Physiology</i> , 2012, 227, 1188-1198.	2.0	38
54	Inflammatory pathways linking obesity and ovarian dysfunction. <i>Journal of Reproductive Immunology</i> , 2011, 88, 142-148.	0.8	118

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55	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, 548-555.	1.2	97
56	Beta-Oxidation Is Essential for Mouse Oocyte Developmental Competence and Early Embryo Development. <i>Biology of Reproduction</i> , 2010, 83, 909-918.	1.2	324
57	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, 549-557.	1.2	129
58	Development and Hormonal Regulation of the Ovarian Lymphatic Vasculature. <i>Endocrinology</i> , 2010, 151, 5446-5455.	1.4	49
59	The Mechanistic Basis for Sexual Dysfunction in Male Transforming Growth Factor β 1 Null Mutant Mice. <i>Journal of Andrology</i> , 2010, 31, 95-107.	2.0	10
60	High-Fat Diet Causes Lipotoxicity Responses in Cumulus-Oocyte Complexes and Decreased Fertilization Rates. <i>Endocrinology</i> , 2010, 151, 5438-5445.	1.4	285
61	Identification of Perilipin-2 as a lipid droplet protein regulated in oocytes during maturation. <i>Reproduction, Fertility and Development</i> , 2010, 22, 1262.	0.1	49
62	Control of oocyte release by progesterone receptor-regulated gene expression. <i>Nuclear Receptor Signaling</i> , 2009, 7, nrs.07012.	1.0	80
63	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, 1533-1540.	1.8	317
64	Exogenous transforming growth factor beta1 replacement and fertility in male Tgfb1 null mutant mice. <i>Reproduction, Fertility and Development</i> , 2009, 21, 561.	0.1	5
65	Evidence that obesity alters the quality of oocytes and embryos. <i>Pathophysiology</i> , 2008, 15, 115-121.	1.0	149
66	Effects of obesity on assisted reproductive technology outcomes. <i>Fertility and Sterility</i> , 2008, 89, 1611-1612.	0.5	19
67	Peroxisome Proliferator-Activated Receptor- γ Agonist Rosiglitazone Reverses the Adverse Effects of Diet-Induced Obesity on Oocyte Quality. <i>Endocrinology</i> , 2008, 149, 2646-2656.	1.4	200
68	PPAR Gamma: Coordinating Metabolic and Immune Contributions to Female Fertility. <i>PPAR Research</i> , 2008, 2008, 1-19.	1.1	36
69	Ovarian leukocyte distribution and cytokine/chemokine mRNA expression in follicular fluid cells in women with polycystic ovary syndrome. <i>Human Reproduction</i> , 2007, 22, 527-535.	0.4	81
70	Altered composition of the cumulus-oocyte complex matrix during in vitro maturation of oocytes. <i>Human Reproduction</i> , 2007, 22, 2842-2850.	0.4	60
71	Molecular mechanisms of ovulation: co-ordination through the cumulus complex. <i>Human Reproduction Update</i> , 2007, 13, 289-312.	5.2	349
72	Requirement for ADAMTS-1 in extracellular matrix remodeling during ovarian folliculogenesis and lymphangiogenesis. <i>Developmental Biology</i> , 2006, 300, 699-709.	0.9	113

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73	Null Mutation in Transforming Growth Factor β 1 Disrupts Ovarian Function and Causes Oocyte Incompetence and Early Embryo Arrest. <i>Endocrinology</i> , 2006, 147, 835-845.	1.4	70
74	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-E770.	1.8	29
75	ICAM-1 expression in adipose tissue: effects of diet-induced obesity in mice. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 291, C1232-C1239.	2.1	127
76	Troglitazone Regulates Peroxisome Proliferator-Activated Receptors and Inducible Nitric Oxide Synthase in Murine Ovarian Macrophages. <i>Biology of Reproduction</i> , 2006, 74, 153-160.	1.2	29
77	Macrophage contributions to ovarian function. <i>Human Reproduction Update</i> , 2004, 10, 119-133.	5.2	277
78	Leukocyte Migration in Adipose Tissue of Mice Null for ICAM-1 and Mac-1 Adhesion Receptors. <i>Obesity</i> , 2004, 12, 936-940.	4.0	61
79	INCREASED HEPATIC INJURY IN ICAM-1 DEFICIENT MICE EXPOSED TO LISTERIA MONOCYTOGENES. <i>Critical Care Medicine</i> , 2004, 32, A130.	0.4	0
80	78. Macrophage migration and luteal regression in ovaries of leukocyte adhesion molecule-deficient (ICAM-1 ^{-/-}) mice. <i>Reproduction, Fertility and Development</i> , 2003, 15, 78.	0.1	0
81	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, 4689-4694.	3.3	484
82	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, 2385-2391.	1.4	85
83	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, 1090-1095.	1.2	127
84	Ovulation: a multi-gene, multi-step process. <i>Steroids</i> , 2000, 65, 559-570.	0.8	137
85	The Critical Granulosa Cell Complement: Lessons from the Cyclin D2 Knockout. , 2000, , 49-58.		0
86	Molecular mechanisms of ovulation and luteinization. <i>Molecular and Cellular Endocrinology</i> , 1998, 145, 47-54.	1.6	205
87	Hormonal Control of the Cell Cycle in Ovarian Cells: Proliferation Versus Differentiation. <i>Biology of Reproduction</i> , 1998, 59, 476-482.	1.2	212
88	Hormone-Induced Proliferation and Differentiation of Granulosa Cells: A Coordinated Balance of the Cell Cycle Regulators Cyclin D2 and p27 ^{Kip1} . <i>Molecular Endocrinology</i> , 1998, 12, 924-940.	3.7	383
89	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> , 1998, 12, 1201-1214.	3.7	68
90	Expression of aromatase in the ovary: Down-regulation of mRNA by the ovulatory luteinizing hormone surge. <i>Steroids</i> , 1997, 62, 197-206.	0.8	119

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91	Cyclin D2 is an FSH-responsive gene involved in gonadal cell proliferation and oncogenesis. Nature, 1996, 384, 470-474.	13.7	668
92	Obesity and oocyte quality. , 0, , 362-370.		1