Darryl L Russell

List of Publications by Year
in descending order

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73 papers	6,810 citations	66234 42 h-index	95083 68 g-index
76 all docs	76 docs citations	76 times ranked	6090 citing authors

#	Article	IF	Citations
1	Ovulation: New Dimensions and New Regulators of the Inflammatory-Like Response. Annual Review of Physiology, 2002, 64, 69-92.	5.6	384
2	Novel Signaling Pathways That Control Ovarian Follicular Development, Ovulation, and Luteinization. Endocrine Reviews, 2002, 57, 195-220.	7.1	363
3	Molecular mechanisms of ovulation: co-ordination through the cumulus complex. Human Reproduction Update, 2007, 13, 289-312.	5.2	349
4	Beta-Oxidation Is Essential for Mouse Oocyte Developmental Competence and Early Embryo Development1. Biology of Reproduction, 2010, 83, 909-918.	1.2	324
5	Obese Women Exhibit Differences in Ovarian Metabolites, Hormones, and Gene Expression Compared with Moderate-Weight Women. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 1533-1540.	1.8	317
6	Lipids and oocyte developmental competence: the role of fatty acids and Î²-oxidation. Reproduction, 2014, 148, R15-R27.	1.1	287
7	High-Fat Diet Causes Lipotoxicity Responses in Cumulusâ€“Oocyte Complexes and Decreased Fertilization Rates. Endocrinology, 2010, 151, 5438-5445.	1.4	285
8	Processing and Localization of ADAMTS-1 and Proteolytic Cleavage of Versican during Cumulus Matrix Expansion and Ovulation. Journal of Biological Chemistry, 2003, 278, 42330-42339.	1.6	232
9	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
10	Extracellular matrix of the developing ovarian follicle. Reproduction, 2003, 126, 415-424.	1.1	212
11	Molecular mechanisms of ovulation and luteinization. Molecular and Cellular Endocrinology, 1998, 145, 47-54.	1.6	205
12	The biological role and regulation of versican levels in cancer. Cancer and Metastasis Reviews, 2009, 28, 233-245.	2.7	201
13	Bidirectional communication between cumulus cells and the oocyte: Old hands and new players?. Theriogenology, 2016, 86, 62-68.	0.9	163
14	Extracellular Matrix of the Cumulus-Oocyte Complex. Seminars in Reproductive Medicine, 2006, 24, 217-227.	0.5	139
15	Ovulation: a multi-gene, multi-step process. Steroids, 2000, 65, 559-570.	0.8	137
16	Decreased Expression of Tumor Necrosis Factor-Î±-Stimulated Gene 6 in Cumulus Cells of the Cyclooxygenase-2 and EP2 Null Mice. Endocrinology, 2003, 144, 1008-1019.	1.4	135
17	ADAMTS1 Cleavage of Versican Mediates Essential Structural Remodeling of the Ovarian Follicle and Cumulus-Oocyte Matrix During Ovulation in Mice1. Biology of Reproduction, 2010, 83, 549-557.	1.2	129
18	Hormone-Regulated Expression and Localization of Versican in the Rodent Ovary. Endocrinology, 2003, 144, 1020-1031.	1.4	128

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19	Ovarian Expression of a Disintegrin and Metalloproteinase with Thrombospondin Motifs During Ovulation in the Gonadotropin-Primed Immature Rat1. Biology of Reproduction, 2000, 62, 1090-1095.	1.2	127
20	Formation of Hyaluronan- and Versican-rich Pericellular Matrix by Prostate Cancer Cells Promotes Cell Motility. Journal of Biological Chemistry, 2007, 282, 10814-10825.	1.6	126
21	Coordination of Ovulation and Oocyte Maturation: A Good Egg at the Right Time. Endocrinology, 2018, 159, 3209-3218.	1.4	120
22	Coordinate Transcription of the ADAMTS-1 Gene by Luteinizing Hormone and Progesterone Receptor. Molecular Endocrinology, 2004, 18, 2463-2478.	3.7	117
23	Endoplasmic Reticulum (ER) Stress in Cumulus-Oocyte Complexes Impairs Pentraxin-3 Secretion, Mitochondrial Membrane Potential (Î”Î¨m), and Embryo Development. Molecular Endocrinology, 2012, 26, 562-573.	3.7	117
24	Regulation of Fatty Acid Oxidation in Mouse Cumulus-Oocyte Complexes during Maturation and Modulation by PPAR Agonists. PLoS ONE, 2014, 9, e87327.	1.1	117
25	Requirement for ADAMTS-1 in extracellular matrix remodeling during ovarian folliculogenesis and lymphangiogenesis. Developmental Biology, 2006, 300, 699-709.	0.9	113
26	Increased Beta-Oxidation and Improved Oocyte Developmental Competence in Response to L-Carnitine During Ovarian In Vitro Follicle Development in Mice. Biology of Reproduction, 2011, 85, 548-555.	1.2	97
27	Stem Cells, Progenitor Cells, and Lineage Decisions in the Ovary. Endocrine Reviews, 2015, 36, 65-91.	8.9	97
28	Egr-1 Induction in Rat Granulosa Cells by Follicle-Stimulating Hormone and Luteinizing Hormone: Combinatorial Regulation By Transcription Factors Cyclic Adenosine 3â€²,5â€²-Monophosphate Regulatory Element Binding Protein, Serum Response Factor, Sp1, and Early Growth Response Factor-1. Molecular Endocrinology, 2003, 17, 520-533.	3.7	89
29	Expression of Tumor Necrosis Factor-Stimulated Gene-6 in the Rat Ovary in Response to an Ovulatory Dose of Gonadotropin**This work was supported by NSF Grant 9870793 (to L.L.E.); by a grant to support T. Ujioka as a Research Fellow of The Lalor Foundation, Providence, Rhode Island (to L.L.E.); and by NIH Grant HD-16229 (to J.S.R.). Endocrinology, 2000, 141, 4114-4119.	1.4	82
30	Control of oocyte release by progesterone receptor-regulated gene expression. Nuclear Receptor Signaling, 2009, 7, nrs.07012.	1.0	80
31	Differentiation-Dependent Prolactin Responsiveness and Stat (Signal Transducers and Activators of) Tj ETQq1 1 0.784314 rgBT /Overlo	3.7	67
32	The ADAMTS1 Protease Gene Is Required for Mammary Tumor Growth and Metastasis. American Journal of Pathology, 2011, 179, 3075-3085.	1.9	64
33	The metalloproteinase ADAMTS1: A comprehensive review of its role in tumorigenic and metastatic pathways. International Journal of Cancer, 2013, 133, 2263-2276.	2.3	63
34	Growth differentiation factor 9 signaling requires ERK1/2 activity in mouse granulosa and cumulus cells. Journal of Cell Science, 2010, 123, 3166-3176.	1.2	61
35	The Ovarian Antral Follicle: Living on the Edge of Hypoxia or Not?1. Biology of Reproduction, 2015, 92, 153.	1.2	61
36	Altered composition of the cumulus-oocyte complex matrix during in vitro maturation of oocytes. Human Reproduction, 2007, 22, 2842-2850.	0.4	60

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37	ADAMTS proteases in fertility. Matrix Biology, 2015, 44-46, 54-63.	1.5	57
38	Overexpression of piRNA Pathway Genes in Epithelial Ovarian Cancer. PLoS ONE, 2014, 9, e99687.	1.1	54
39	Female reproductive life span is extended by targeted removal of fibrotic collagen from the mouse ovary. Science Advances, 2022, 8, .	4.7	54
40	Development and Hormonal Regulation of the Ovarian Lymphatic Vasculature. Endocrinology, 2010, 151, 5446-5455.	1.4	49
41	Identification of Perilipin-2 as a lipid droplet protein regulated in oocytes during maturation. Reproduction, Fertility and Development, 2010, 22, 1262.	0.1	49
42	Heparan Sulfate Proteoglycans Regulate Responses to Oocyte Paracrine Signals in Ovarian Follicle Morphogenesis. Endocrinology, 2012, 153, 4544-4555.	1.4	48
43	Prolactin-Induced Activation and Binding of Stat Proteins to the IL-6RE of the Î±2-Macroglobulin (Î±2M) Promoter: Relation to the Expression of Iα2M in the Rat Ovary. Biology of Reproduction, 1996, 55, 1029-1038.	1.2	44
44	Hormonally regulated follicle differentiation and luteinization in the mouse is associated with hypoxia inducible factor activity. Molecular and Cellular Endocrinology, 2010, 327, 47-55.	1.6	42
45	Failure to launch: aberrant cumulus gene expression during oocyte in vitro maturation. Reproduction, 2017, 153, R109-R120.	1.1	42
46	Expression of Regulator of G-Protein Signaling Protein-2 Gene in the Rat Ovary at the Time of Ovulation1. Biology of Reproduction, 2000, 63, 1513-1517.	1.2	41
47	Transient Invasive Migration in Mouse Cumulus Oocyte Complexes Induced at Ovulation by Luteinizing Hormone1. Biology of Reproduction, 2012, 86, 125.	1.2	37
48	Characterization of Ovarian Carbonyl Reductase Gene Expression During Ovulation in the Gonadotropin-Primed Immature Rat1. Biology of Reproduction, 2000, 62, 390-397.	1.2	36
49	Endocrine Disruptor Compoundsâ€”A Cause of Impaired Immune Tolerance Driving Inflammatory Disorders of Pregnancy?. Frontiers in Endocrinology, 2021, 12, 607539.	1.5	34
50	Microarray analysis of mRNA from cumulus cells following in vivo or in vitro maturation of mouse cumulusâ€“oocyte complexes. Reproduction, Fertility and Development, 2013, 25, 426.	0.1	31
51	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
52	Tissue-specific progesterone receptor-chromatin binding and the regulation of progesterone-dependent gene expression. Scientific Reports, 2019, 9, 11966.	1.6	31
53	Progesterone receptor-dependent regulation of genes in the oviducts of female mice. Physiological Genomics, 2014, 46, 583-592.	1.0	30
54	Activation of Mouse Cumulus-Oocyte Complex Maturation In Vitro Through EGF-Like Activity of Versican1. Biology of Reproduction, 2015, 92, 116.	1.2	28

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55	Regulation of the ovarian inflammatory response at ovulation by nuclear progesterone receptor. American Journal of Reproductive Immunology, 2018, 79, e12835.	1.2	25
56	Molecular Filtration Properties of the Mouse Expanded Cumulus Matrix: Controlled Supply of Metabolites and Extracellular Signals to Cumulus Cells and the Oocyte1. Biology of Reproduction, 2012, 87, 89.	1.2	22
57	Identification of Sites of STAT3 Action in the Female Reproductive Tract through Conditional Gene Deletion. PLoS ONE, 2014, 9, e101182.	1.1	20
58	FOXP3 and miR-155 cooperate to control the invasive potential of human breast cancer cells by down regulating ZEB2 independently of ZEB1. Oncotarget, 2018, 9, 27708-27727.	0.8	20
59	Oxygen-regulated gene expression in murine cumulus cells. Reproduction, Fertility and Development, 2015, 27, 407.	0.1	15
60	Male Seminal Relaxin Contributes to Induction of the Post-mating Cytokine Response in the Female Mouse Uterus. Frontiers in Physiology, 2017, 8, 422.	1.3	11
61	The N-terminal peptide of the inhibin Î± subunit. Trends in Endocrinology and Metabolism, 1995, 6, 305-311.	3.1	6
62	Research Priorities for Fertility and Conception Research as Identified by Multidisciplinary Health Care Practitioners and Researchers. Nutrients, 2016, 8, 35.	1.7	6
63	Insulin family polymorphisms in pregnancies complicated by small for gestational age infants. Molecular Human Reproduction, 2015, 21, 745-752.	1.3	5
64	Ovulation: The Coordination of Intrafollicular Networks to Ensure Oocyte Release. , 2019, , 217-234.		5
65	ADAMTS1 Promotes Adhesion to Extracellular Matrix Proteins and Predicts Prognosis in Early Stage Breast Cancer Patients. Cellular Physiology and Biochemistry, 2019, 52, 1553-1568.	1.1	5
66	Cumulus Cells. , 2018, , 43-46.		4
67	Development of Automated Microscopyâ€Assisted Highâ€Content Multiparametric Assays for Cell Cycle Staging and Foci Quantitation. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 378-393.	1.1	4
68	A Primate-Specific Mediator of Ovulation?. Endocrinology, 2016, 157, 4209-4211.	1.4	2
69	Riding the Wave: Determining the Hierarchy of Ovarian Follicle Activation. Biology of Reproduction, 2015, 93, 99.	1.2	1
70	Involvement of Blood and Lymphatic Angiogenesis in Folliculogenesis and Ovulation.. Biology of Reproduction, 2008, 78, 79-79.	1.2	1
71	The Inflammatory Response at Ovulation Is Altered in Ovaries of Progesterone Receptor Null (PRKO) Mice.. Biology of Reproduction, 2010, 83, 95-95.	1.2	1
72	OR08-1 Context-Specific Chromatin Binding Properties of Progesterone Receptor and Consequential Effects on Gene Expression in Mouse Reproductive Tissues. Journal of the Endocrine Society, 2019, 3, .	0.1	1

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73	Migratory, Invasive and Adhesive Phenotypes Are Transiently Induced in the Cumulus Oocyte Complex at Ovulation.. Biology of Reproduction, 2011, 85, 7-7.	1.2	0