Liza O'Donnell

List of Publications by Year
in descending order

60 papers	5,342 citations	109137 35 h-index	168136 53 g-index
62 all docs	62 docs citations	62 times ranked	4564 citing authors

#	Article	IF	Citations
1	Estrogen and Spermatogenesis*. Endocrine Reviews, 2001, 22, 289-318.	8.9	610
2	Impairment of spermatogenesis in mice lacking a functional aromatase (cyp 19) gene. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 7986-7991.	3.3	560
3	Identification of Specific Sites of Hormonal Regulation in Spermatogenesis in Rats, Monkeys, and Man. Endocrine Reviews, 2002, 57, 149-179.	7.1	349
4	Spermiation. Spermatogenesis, 2011, 1, 14-35.	0.8	302
5	Testosterone Withdrawal Promotes Stage-Specific Detachment of Round Spermatids from the Rat Seminiferous Epithelium1. Biology of Reproduction, 1996, 55, 895-901.	1.2	240
6	The endocrine regulation of spermatogenesis: independent roles for testosterone and FSH. Journal of Endocrinology, 1996, 148, 1-9.	1.2	201
7	The Role of Local Estrogen Biosynthesis in Males and Females. Trends in Endocrinology and Metabolism, 2000, 11, 184-188.	3.1	201
8	Mechanisms of spermiogenesis and spermiation and how they are disturbed. Spermatogenesis, 2014, 4, e979623.	0.8	186
9	Effects of Testosterone Plus Medroxyprogesterone Acetate on Semen Quality, Reproductive Hormones, and Germ Cell Populations in Normal Young Men. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 546-556.	1.8	169
10	Microtubules and spermatogenesis. Seminars in Cell and Developmental Biology, 2014, 30, 45-54.	2.3	165
11	Local estrogen biosynthesis in males and females.. Endocrine-Related Cancer, 1999, 6, 131-137.	1.6	147
12	Characterization of Normal Spermiation and Spermiation Failure Induced by Hormone Suppression in Adult Rats1. Biology of Reproduction, 2003, 68, 1299-1307.	1.2	110
13	Spermiation Failure Is a Major Contributor to Early Spermatogenic Suppression Caused by Hormone Withdrawal in Adult Rats1. Endocrinology, 2000, 141, 2779-2785.	1.4	108
14	The Phenotype of the Aromatase Knockout Mouse Reveals Dietary Phytoestrogens Impact Significantly on Testis Function. Endocrinology, 2002, 143, 2913-2921.	1.4	93
15	Estrogen regulates development of the somatic cell phenotype in the eutherian ovary. FASEB Journal, 2002, 16, 1389-1397.	0.2	93
16	The cytoskeleton in spermatogenesis. Reproduction, 2019, 157, R53-R72.	1.1	91
17	An Essential Role for Katanin p80 and Microtubule Severing in Male Gamete Production. PLoS Genetics, 2012, 8, e1002698.	1.5	89
18	Hormonal regulation of spermatogenesis in primates and man: insights for development of the male hormonal contraceptive. Journal of Andrology, 2002, 23, 149-62.	2.0	88

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19	Sertoli Cell Ectoplasmic Specializations in the Seminiferous Epithelium of the Testosterone-Suppressed Adult Rat1. Biology of Reproduction, 2000, 63, 99-108.	1.2	83
20	The Relative Roles of Follicle-Stimulating Hormone and Luteinizing Hormone in Maintaining Spermatogonial Maturation and Spermiation in Normal Men. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 3962-3969.	1.8	80
21	A complex containing Î±6Î²1-integrin and phosphorylated focal adhesion kinase between Sertoli cells and elongated spermatids during spermatid release from the seminiferous epithelium. Journal of Endocrinology, 2006, 190, 759-770.	1.2	80
22	Hormonal Regulation of Sertoli Cell Micro-RNAs at Spermiation. Endocrinology, 2011, 152, 1670-1683.	1.4	78
23	Ovarian steroid receptors and their role in ovarian function. Molecular and Cellular Endocrinology, 2002, 191, 27-33.	1.6	75
24	RBM5 Is a Male Germ Cell Splicing Factor and Is Required for Spermatid Differentiation and Male Fertility. PLoS Genetics, 2013, 9, e1003628.	1.5	68
25	FSH regulates the formation of adherens junctions and ectoplasmic specialisations between rat Sertoli cells in vitro and in vivo. Journal of Endocrinology, 2006, 189, 381-395.	1.2	62
26	KATNAL1 Regulation of Sertoli Cell Microtubule Dynamics Is Essential for Spermiogenesis and Male Fertility. PLoS Genetics, 2012, 8, e1002697.	1.5	62
27	Stereological analysis of the human testis after vasectomy indicates impairment of spermatogenic efficiency with increasing obstructive interval. Fertility and Sterility, 2004, 81, 1595-1603.	0.5	61
28	Effects of Testosterone and Levonorgestrel Combined with a 5Î±-Reductase Inhibitor or Gonadotropin-Releasing Hormone Antagonist on Spermatogenesis and Intratesticular Steroid Levels in Normal Men. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 5647-5655.	1.8	61
29	Proteomic Changes in Rat Spermatogenesis in Response to In Vivo Androgen Manipulation; Impact on Meiotic Cells. PLoS ONE, 2012, 7, e41718.	1.1	61
30	LRGUK-1 Is Required for Basal Body and Manchette Function during Spermatogenesis and Male Fertility. PLoS Genetics, 2015, 11, e1005090.	1.5	59
31	Impairment of Spermatogonial Development and Spermiation after Testosterone-Induced Gonadotropin Suppression in Adult Monkeys (Macaca fascicularis)¹. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 1814-1822.	1.8	51
32	Variability in Sperm Suppression during Testosterone Administration to Adult Monkeys Is Related to Follicle Stimulating Hormone Suppression and Not to Intratesticular Androgens. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 3399-3406.	1.8	51
33	Sertoli cells as key drivers of testis function. Seminars in Cell and Developmental Biology, 2022, 121, 2-9.	2.3	51
34	Katanin-like 2 (KATNAL2) functions in multiple aspects of haploid male germ cell development in the mouse. PLoS Genetics, 2017, 13, e1007078.	1.5	48
35	Application of laser-capture microdissection to analysis of gene expression in the testis. Progress in Histochemistry and Cytochemistry, 2008, 42, 173-201.	5.1	43
36	Differential regulation of rat testicular 5alpha-reductase type 1 and 2 isoforms by testosterone and FSH. Journal of Endocrinology, 2003, 176, 393-403.	1.2	40

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37	Effects of Testosterone Plus Medroxyprogesterone Acetate on Semen Quality, Reproductive Hormones, and Germ Cell Populations in Normal Young Men. , 0, .		40
38	5Î±-Reductase Isoenzymes 1 and 2 in the Rat Testis During Postnatal Development1. Biology of Reproduction, 2003, 68, 1711-1718.	1.2	38
39	Impairment of Spermatogonial Development and Spermiation after Testosterone-Induced Gonadotropin Suppression in Adult Monkeys (Macaca fascicularis). Journal of Clinical Endocrinology and Metabolism, 2001, 86, 1814-1822.	1.8	33
40	Stage-Specific Expression of Genes Associated with Rat Spermatogenesis: Characterization by Laser-Capture Microdissection and Real-Time Polymerase Chain Reaction1. Biology of Reproduction, 2002, 67, 820-828.	1.2	32
41	Transcriptional Profiling of the Hormone-Responsive Stages of Spermatogenesis Reveals Cell-, Stage-, and Hormone-Specific Events. Endocrinology, 2009, 150, 5074-5084.	1.4	31
42	Determination of Seasonality in Southern Hairy-Nosed Wombats (Lasiorhinus latifrons) by Analysis of Fecal Androgens1. Biology of Reproduction, 2000, 63, 526-531.	1.2	29
43	Pachytene spermatocytes in co-culture inhibit rat Sertoli cell synthesis of inhibin beta B-subunit and inhibin B but not the inhibin alpha-subunit. Journal of Endocrinology, 2002, 172, 565-574.	1.2	29
44	Enzyme assay for 5Î±-reductase Type 2 activity in the presence of 5Î±-reductase Type 1 activity in rat testis. Journal of Steroid Biochemistry and Molecular Biology, 2000, 75, 75-82.	1.2	27
45	The Phenotype of the Aromatase Knockout Mouse Reveals Dietary Phytoestrogens Impact Significantly on Testis Function. , 0, .		24
46	The role of testosterone in spermatogenesis. , 0, , 123-153.		17
47	<scp>KATNB</scp>1 in the human testis and its genetic variants in fertile and oligoasthenoteratozoospermic infertile men. Andrology, 2014, 2, 884-891.	1.9	15
48	Mapping the testicular interstitial fluid proteome from normal rats. Proteomics, 2016, 16, 2391-2402.	1.3	14
49	Sperm proteins and cancerâ€testis antigens are released by the seminiferous tubules in mice and men. FASEB Journal, 2021, 35, e21397.	0.2	14
50	Activin A Determines Steroid Levels and Composition in the Fetal Testis. Endocrinology, 2020, 161, .	1.4	13
51	Uncoupling of transcription and translation of Fanconi anemia (FANC) complex proteins during spermatogenesis. Spermatogenesis, 2015, 5, e979061.	0.8	11
52	Localization of the Chromatin Remodelling Protein, ATRX in the Adult Testis. Journal of Reproduction and Development, 2011, 57, 317-321.	0.5	9
53	Hormonal regulation of spermatogenesis through Sertoli cells by androgens and estrogens. , 2015, , 175-200.		7
54	Activin A and Sertoli Cells: Key to Fetal Testis Steroidogenesis. Frontiers in Endocrinology, 2022, 13, .	1.5	6

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55	Estrogen and Spermatogenesis. , 2003, , 578-584.		4
56	Phenotypic Assessment of Male Fertility Status in Transgenic Animal Models. Methods in Molecular Biology, 2013, 927, 531-548.	0.4	3
57	Sperm-specific proteins: new implications for diagnostic development and cancer immunotherapy. Current Opinion in Cell Biology, 2022, 77, 102104.	2.6	3
58	Spermiation. , 2018, , 145-151.		2
59	Leukemia inhibitory factor-receptor signalling negatively regulates gonadotrophin-stimulated testosterone production in mouse Leydig Cells. Molecular and Cellular Endocrinology, 2022, 544, 111556.	1.6	1
60	Structure/Cells Overview. , 2018, , 10-16.		0