Haolin Chen

List of Publications by Year
in descending order

60 papers	3,046 citations	172457 29 h-index	161849 54 g-index
63 all docs	63 docs citations	63 times ranked	2363 citing authors

#	Article	IF	Citations
1	Regulation of Leydig Cell Steroidogenic Function During Aging1. Biology of Reproduction, 2000, 63, 977-981.	2.7	229
2	Leydig cells: From stem cells to aging. Molecular and Cellular Endocrinology, 2009, 306, 9-16.	3.2	224
3	Insights into the Development of the Adult Leydig Cell Lineage from Stem Leydig Cells. Frontiers in Physiology, 2017, 8, 430.	2.8	200
4	Steroidogenesis in Leydig cells: effects of aging and environmental factors. Reproduction, 2017, 154, R111-R122.	2.6	173
5	Leydig cell aging and the mechanisms of reduced testosterone synthesis. Molecular and Cellular Endocrinology, 2009, 299, 23-31.	3.2	164
6	Regulation of seminiferous tubule-associated stem Leydig cells in adult rat testes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2666-2671.	7.1	127
7	Age-related increase in mitochondrial superoxide generation in the testosterone-producing cells of Brown Norway rat testes: relationship to reduced steroidogenic function?. Experimental Gerontology, 2001, 36, 1361-1373.	2.8	122
8	Leydig cell stem cells: Identification, proliferation and differentiation. Molecular and Cellular Endocrinology, 2017, 445, 65-73.	3.2	111
9	Aging and the Brown Norway Rat Leydig Cell Antioxidant Defense System. Journal of Andrology, 2006, 27, 240-247.	2.0	107
10	Identification, Proliferation, and Differentiation of Adult Leydig Stem Cells. Endocrinology, 2012, 153, 5002-5010.	2.8	104
11	Age-Related Decreases in Leydig Cell Testosterone Production Are Not Restored by Exposure to LH<i>in Vitro</i>. Endocrinology, 2002, 143, 1637-1642.	2.8	95
12	Vitamin E, aging and Leydig cell steroidogenesis. Experimental Gerontology, 2005, 40, 728-736.	2.8	93
13	Molecular Mechanisms Mediating the Effect of Mono-(2-Ethylhexyl) Phthalate on Hormone-Stimulated Steroidogenesis in MA-10 Mouse Tumor Leydig Cells. Endocrinology, 2010, 151, 3348-3362.	2.8	78
14	Stem Leydig cells: From fetal to aged animals. Birth Defects Research Part C: Embryo Today Reviews, 2010, 90, 272-283.	3.6	74
15	Age and testosterone mediate influenza pathogenesis in male mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L1234-L1244.	2.9	71
16	Stem Leydig Cell Differentiation: Gene Expression During Development of the Adult Rat Population of Leydig Cells1. Biology of Reproduction, 2011, 85, 1161-1166.	2.7	61
17	Oxidative stress and phthalate-induced down-regulation of steroidogenesis in MA-10 Leydig cells. Reproductive Toxicology, 2013, 42, 95-101.	2.9	59
18	Stem Leydig Cells in the Adult Testis: Characterization, Regulation and Potential Applications. Endocrine Reviews, 2020, 41, 22-32.	20.1	56

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19	Regulation of the Proliferation and Differentiation of Leydig Stem Cells in the Adult Testis1. Biology of Reproduction, 2014, 90, 123.	2.7	54
20	Knockout of the transcription factor Nrf2: Effects on testosterone production by aging mouse Leydig cells. Molecular and Cellular Endocrinology, 2015, 409, 113-120.	3.2	53
21	Direct Reprogramming of Mouse Fibroblasts toward Leydig-like Cells by Defined Factors. Stem Cell Reports, 2017, 8, 39-53.	4.8	53
22	Aging and Luteinizing Hormone Effects on Reactive Oxygen Species Production and DNA Damage in Rat Leydig Cells1. Biology of Reproduction, 2013, 88, 100.	2.7	48
23	Cholesterol transport, peripheral benzodiazepine receptor, and steroidogenesis in aging Leydig cells. Journal of Andrology, 2002, 23, 439-47.	2.0	48
24	Dibutyryl Cyclic Adenosine Monophosphate Restores the Ability of Aged Leydig Cells to Produce Testosterone at the High Levels Characteristic of Young Cells. Endocrinology, 2004, 145, 4441-4446.	2.8	44
25	Effect of Glutathione Depletion on Leydig Cell Steroidogenesis in Young and Old Brown Norway Rats. Endocrinology, 2008, 149, 2612-2619.	2.8	42
26	Effect of glutathione redox state on Leydig cell susceptibility to acute oxidative stress. Molecular and Cellular Endocrinology, 2010, 323, 147-154.	3.2	42
27	Temporal relationships among testosterone production, steroidogenic acute regulatory protein (StAR), and P450 side-chain cleavage enzyme (P450scc) during Leydig cell aging. Journal of Andrology, 2005, 26, 25-31.	2.0	38
28	Leydig cell gene expression: effects of age and caloric restriction. Experimental Gerontology, 2004, 39, 31-43.	2.8	35
29	Cyclooxygenases in Rat Leydig Cells: Effects of Luteinizing Hormone and Aging. Endocrinology, 2007, 148, 735-742.	2.8	33
30	Nasal delivery of nerve growth factor rescue hypogonadism by up-regulating GnRH and testosterone in aging male mice. EBioMedicine, 2018, 35, 295-306.	6.1	27
31	TCF21+ mesenchymal cells contribute to testis somatic cell development, homeostasis, and regeneration in mice. Nature Communications, 2021, 12, 3876.	12.8	27
32	Aging and caloric restriction: Effects on Leydig cell steroidogenesis. Experimental Gerontology, 2005, 40, 498-505.	2.8	25
33	Effects of pharmacologically induced Leydig cell testosterone production on intratesticular testosterone and spermatogenesisâ€. Biology of Reproduction, 2020, 102, 489-498.	2.7	25
34	Steroidogenic fate of the Leydig cells that repopulate the testes of young and aged Brown Norway rats after elimination of the preexisting Leydig cells. Experimental Gerontology, 2015, 72, 8-15.	2.8	22
35	Sirt1 and Nrf2: regulation of Leydig cell oxidant/antioxidant intracellular environment and steroid formationâ€. Biology of Reproduction, 2021, 105, 1307-1316.	2.7	22
36	Effects of Midazolam on the Development of Adult Leydig Cells From Stem Cells In Vitro. Frontiers in Endocrinology, 2021, 12, 765251.	3.5	17

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37	Differentiation of seminiferous tubule-associated stem cells into leydig cell and myoid cell lineages. Molecular and Cellular Endocrinology, 2021, 525, 111179.	3.2	16
38	Age-Related Decreases in Leydig Cell Testosterone Production Are Not Restored by Exposure to LH in Vitro. Endocrinology, 2002, 143, 1637-1642.	2.8	16
39	Gene expression by the anterior pituitary gland: effects of age and caloric restriction. Molecular and Cellular Endocrinology, 2004, 222, 21-31.	3.2	15
40	Effects of spermatogenic cycle on Stem Leydig cell proliferation and differentiation. Molecular and Cellular Endocrinology, 2019, 481, 35-43.	3.2	15
41	Effects of gestational exposure to perfluorooctane sulfonate on the lung development of offspring rats. Environmental Pollution, 2021, 272, 115535.	7.5	15
42	Mechanism of Testosterone Deficiency in the Transgenic Sickle Cell Mouse. PLoS ONE, 2015, 10, e0128694.	2.5	14
43	Long-term maintenance of luteinizing hormone-responsive testosterone formation by primary rat Leydig cells in vitro. Molecular and Cellular Endocrinology, 2018, 476, 48-56.	3.2	14
44	Microsurgical Rat Varicocele Model. Journal of Urology, 2014, 191, 548-553.	0.4	13
45	Characterization and differentiation of CD51+ Stem Leydig cells in adult mouse testes. Molecular and Cellular Endocrinology, 2019, 493, 110449.	3.2	12
46	Cholesterol accumulation, lipid droplet formation, and steroid production in Leydig cells: Role of translocator protein (18â€‰kDa). Andrology, 2020, 8, 719-730.	3.5	12
47	Transplantation of alginate-encapsulated seminiferous tubules and interstitial tissue into adult rats: Leydig stem cell differentiation inÂvivo?. Molecular and Cellular Endocrinology, 2016, 436, 250-258.	3.2	11
48	Repeated exposures of the male Sprague Dawley rat reproductive tract to environmental toxicants: Do earlier exposures to di-(2-ethylhexyl)phthalate (DEHP) alter the effects of later exposures?. Reproductive Toxicology, 2016, 61, 136-141.	2.9	10
49	Characterization of stem cells associated with seminiferous tubule of adult rat testis for their potential to form Leydig cells. Stem Cell Research, 2019, 41, 101593.	0.7	10
50	Identification of Rat Testicular Leydig Precursor Cells by Single-Cell-RNA-Sequence Analysis. Frontiers in Cell and Developmental Biology, 2022, 10, 805249.	3.7	10
51	Phthalate inhibits Leydig cell differentiation and promotes adipocyte differentiation. Chemosphere, 2021, 262, 127855.	8.2	9
52	Perfluoroundecanoic acid inhibits Leydig cell development in pubertal male rats via inducing oxidative stress and autophagy. Toxicology and Applied Pharmacology, 2021, 415, 115440.	2.8	9
53	TSPO ligand FGINâ€1â€27 controls priapism in sickle cell mice via endogenous testosterone production. Journal of Cellular Physiology, 2021, 236, 3073-3082.	4.1	8
54	Acute effects of the translocator protein drug ligand FGIN-1-27 on serum testosterone and luteinizing hormone levels in male Sprague-Dawley ratsâ€. Biology of Reproduction, 2019, 100, 824-832.	2.7	7

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55	Pubertal Bisphenol A exposure increases adult rat serum testosterone by resetting pituitary homeostasis. Environmental Pollution, 2022, 298, 118764.	7.5	5
56	Single-cell RNA sequencing of adult rat testes after Leydig cell elimination and restoration. Scientific Data, 2022, 9, 106.	5.3	5
57	Origin and regulation of stem Leydig cells in the adult testis. Current Opinion in Endocrine and Metabolic Research, 2019, 6, 49-53.	1.4	3
58	Leydig Cell Development and Aging in the Brown Norway Rat. , 2018, , 853-862.		2
59	Isolation of Leydig cells from adult rat testes by magneticâ€activated cell sorting protocol based on prolactin receptor expression. Andrology, 2022, 10, 1197-1207.	3.5	2
60	Identification and Function of Putative Stem Leydig Cells in the Adult Rat Testis.. Biology of Reproduction, 2010, 83, 22-22.	2.7	0