Haolin Chen

List of Publications by Year in Descending Order

60 papers	2,240 citations	28 h-index	47 g-index
63 ext. papers	2,713 ext. citations	5.4 avg, IF	4.95 L-index

#	Paper	IF	Citations
60	Identification of Rat Testicular Leydig Precursor Cells by Single-Cell-RNA-Sequence Analysis.. *Frontiers in Cell and Developmental Biology*, **2022**, 10, 805249	5.7	1
59	Single-cell RNA sequencing of adult rat testes after Leydig cell elimination and restoration.. *Scientific Data*, **2022**, 9, 106	8.2	
58	Effects of Midazolam on the Development of Adult Leydig Cells From Stem Cells. *Frontiers in Endocrinology*, **2021**, 12, 765251	5.7	0
57	Pubertal Bisphenol A exposure increases adult rat serum testosterone by resetting pituitary homeostasis.. *Environmental Pollution*, **2021**, 118764	9.3	0
56	Differentiation of seminiferous tubule-associated stem cells into leydig cell and myoid cell lineages. *Molecular and Cellular Endocrinology*, **2021**, 525, 111179	4.4	3
55	TCF21 mesenchymal cells contribute to testis somatic cell development, homeostasis, and regeneration in mice. *Nature Communications*, **2021**, 12, 3876	17.4	5
54	Phthalate inhibits Leydig cell differentiation and promotes adipocyte differentiation. *Chemosphere*, **2021**, 262, 127855	8.4	2
53	Effects of gestational exposure to perfluorooctane sulfonate on the lung development of offspring rats. *Environmental Pollution*, **2021**, 272, 115535	9.3	2
52	TSPO ligand FGIN-1-27 controls priapism in sickle cell mice via endogenous testosterone production. *Journal of Cellular Physiology*, **2021**, 236, 3073-3082	7	4
51	Perfluoroundecanoic acid inhibits Leydig cell development in pubertal male rats via inducing oxidative stress and autophagy. *Toxicology and Applied Pharmacology*, **2021**, 415, 115440	4.6	1
50	Sirt1 and Nrf2: regulation of Leydig cell oxidant/antioxidant intracellular environment and steroid formation *Biology of Reproduction*, **2021**, 105, 1307-1316	3.9	3
49	Stem Leydig Cells in the Adult Testis: Characterization, Regulation and Potential Applications. *Endocrine Reviews*, **2020**, 41,	27.2	28
48	Cholesterol accumulation, lipid droplet formation, and steroid production in Leydig cells: Role of translocator protein (18-kDa). *Andrology*, **2020**, 8, 719-730	4.2	9
47	Effects of pharmacologically induced Leydig cell testosterone production on intratesticular testosterone and spermatogenesis *Biology of Reproduction*, **2020**, 102, 489-498	3.9	10
46	Origin and regulation of stem Leydig cells in the adult testis. *Current Opinion in Endocrine and Metabolic Research*, **2019**, 6, 49-53	1.7	3
45	Characterization and differentiation of CD51 Stem Leydig cells in adult mouse testes. *Molecular and Cellular Endocrinology*, **2019**, 493, 110449	4.4	5
44	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	1.6	6

43	Effects of spermatogenic cycle on Stem Leydig cell proliferation and differentiation. *Molecular and Cellular Endocrinology*, **2019**, 481, 35-43	4.4	9
42	Acute effects of the translocator protein drug ligand FGIN-1-27 on serum testosterone and luteinizing hormone levels in male Sprague-Dawley rats *Biology of Reproduction*, **2019**, 100, 824-832	3.9	4
41	Long-term maintenance of luteinizing hormone-responsive testosterone formation by primary rat Leydig cells in vitro. *Molecular and Cellular Endocrinology*, **2018**, 476, 48-56	4.4	10
40	Nasal delivery of nerve growth factor rescue hypogonadism by up-regulating GnRH and testosterone in aging male mice. *EBioMedicine*, **2018**, 35, 295-306	8.8	17
39	Leydig Cell Development and Aging in the Brown Norway Rat **2018**, 853-862		2
38	Direct Reprogramming of Mouse Fibroblasts toward Leydig-like Cells by Defined Factors. *Stem Cell Reports*, **2017**, 8, 39-53	8	39
37	Steroidogenesis in Leydig cells: effects of aging and environmental factors. *Reproduction*, **2017**, 154, R111-R122	3.8	97
36	Leydig cell stem cells: Identification, proliferation and differentiation. *Molecular and Cellular Endocrinology*, **2017**, 445, 65-73	4.4	62
35	Insights into the Development of the Adult Leydig Cell Lineage from Stem Leydig Cells. *Frontiers in Physiology*, **2017**, 8, 430	4.6	128
34	Transplantation of alginate-encapsulated seminiferous tubules and interstitial tissue into adult rats: Leydig stem cell differentiation in vivo?. *Molecular and Cellular Endocrinology*, **2016**, 436, 250-8	4.4	9
33	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, 2666-71	11.5	96
32	Age and testosterone mediate influenza pathogenesis in male mice. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2016**, 311, L1234-L1244	5.8	44
31	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, 136-41	3.4	8
30	Knockout of the transcription factor Nrf2: Effects on testosterone production by aging mouse Leydig cells. *Molecular and Cellular Endocrinology*, **2015**, 409, 113-20	4.4	34
29	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	4.5	17
28	Mechanism of testosterone deficiency in the transgenic sickle cell mouse. *PLoS ONE*, **2015**, 10, e0128694	3.7	13
27	Regulation of the proliferation and differentiation of Leydig stem cells in the adult testis. *Biology of Reproduction*, **2014**, 90, 123	3.9	43
26	Microsurgical rat varicocele model. *Journal of Urology*, **2014**, 191, 548-53	2.5	9

25	Oxidative stress and phthalate-induced down-regulation of steroidogenesis in MA-10 Leydig cells. *Reproductive Toxicology*, **2013**, 42, 95-101	3.4	49
24	Aging and luteinizing hormone effects on reactive oxygen species production and DNA damage in rat Leydig cells. *Biology of Reproduction*, **2013**, 88, 100	3.9	39
23	Identification, proliferation, and differentiation of adult Leydig stem cells. *Endocrinology*, **2012**, 153, 5002-10	4.8	83
22	Stem Leydig cell differentiation: gene expression during development of the adult rat population of Leydig cells. *Biology of Reproduction*, **2011**, 85, 1161-6	3.9	49
21	Molecular mechanisms mediating the effect of mono-(2-ethylhexyl) phthalate on hormone-stimulated steroidogenesis in MA-10 mouse tumor Leydig cells. *Endocrinology*, **2010**, 151, 3348-62	4.8	68
20	Effect of glutathione redox state on Leydig cell susceptibility to acute oxidative stress. *Molecular and Cellular Endocrinology*, **2010**, 323, 147-54	4.4	35
19	Stem Leydig cells: from fetal to aged animals. *Birth Defects Research Part C: Embryo Today Reviews*, **2010**, 90, 272-83		64
18	Identification and Function of Putative Stem Leydig Cells in the Adult Rat Testis.. *Biology of Reproduction*, **2010**, 83, 22-22	3.9	
17	Leydig cell aging and the mechanisms of reduced testosterone synthesis. *Molecular and Cellular Endocrinology*, **2009**, 299, 23-31	4.4	137
16	Leydig cells: From stem cells to aging. *Molecular and Cellular Endocrinology*, **2009**, 306, 9-16	4.4	183
15	Effect of glutathione depletion on Leydig cell steroidogenesis in young and old brown Norway rats. *Endocrinology*, **2008**, 149, 2612-9	4.8	35
14	Cyclooxygenases in rat Leydig cells: effects of luteinizing hormone and aging. *Endocrinology*, **2007**, 148, 735-42	4.8	24
13	Aging and the brown Norway rat leydig cell antioxidant defense system. *Journal of Andrology*, **2006**, 27, 240-7		88
12	Aging and caloric restriction: effects on Leydig cell steroidogenesis. *Experimental Gerontology*, **2005**, 40, 498-505	4.5	20
11	Vitamin E, aging and Leydig cell steroidogenesis. *Experimental Gerontology*, **2005**, 40, 728-36	4.5	83
10	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		37
9	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, 4441-6	4.8	36
8	Leydig cell gene expression: effects of age and caloric restriction. *Experimental Gerontology*, **2004**, 39, 31-43	4.5	31

7	Gene expression by the anterior pituitary gland: effects of age and caloric restriction. *Molecular and Cellular Endocrinology*, **2004**, 222, 21-31	4.4	15
6	Age-related decreases in Leydig cell testosterone production are not restored by exposure to LH in vitro. *Endocrinology*, **2002**, 143, 1637-42	4.8	73
5	Cholesterol transport, peripheral benzodiazepine receptor, and steroidogenesis in aging Leydig cells. *Journal of Andrology*, **2002**, 23, 439-47		46
4	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, 1361-73	4.5	102
3	Regulation of Leydig cell steroidogenic function during aging. *Biology of Reproduction*, **2000**, 63, 977-81	3.9	199
2	Age-Related Decreases in Leydig Cell Testosterone Production Are Not Restored by Exposure to LH in Vitro		14
1	Tcf21+ mesenchymal cells contribute to testis somatic cell development, homeostasis, and regeneration		3