

# Katja J Teerds

## List of Publications by Citations

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96  
papers

2,860  
citations

33  
h-index

50  
g-index

100  
ext. papers

3,139  
ext. citations

4.6  
avg, IF

4.78  
L-index

#	Paper	IF	Citations
96	Apoptosis in the rat spermatogenic epithelium following androgen withdrawal: changes in apoptosis-related genes. <i>Biology of Reproduction</i> , <b>1999</b> , 60, 461-70	3.9	137
95	Functional relationship between obesity and male reproduction: from humans to animal models. <i>Human Reproduction Update</i> , <b>2011</b> , 17, 667-83	15.8	123
94	Differences in the incidence of apoptosis between in vivo and in vitro produced blastocysts of farm animal species: a comparative study. <i>Theriogenology</i> , <b>2005</b> , 63, 2254-68	2.8	120
93	Propagation of bovine spermatogonial stem cells in vitro. <i>Reproduction</i> , <b>2008</b> , 136, 543-57	3.8	111
92	Localization of transforming growth factor beta 1 and beta 2 during testicular development in the rat. <i>Biology of Reproduction</i> , <b>1993</b> , 48, 40-5	3.9	107
91	Growth factor requirements for DNA synthesis by Leydig cells from the immature rat. <i>Biology of Reproduction</i> , <b>1992</b> , 46, 335-41	3.9	99
90	The regulation of the proliferation and differentiation of rat Leydig cell precursor cells after EDS administration or daily HCG treatment. <i>Journal of Andrology</i> , <b>1988</b> , 9, 343-51		98
89	Morphological and functional maturation of Leydig cells: from rodent models to primates. <i>Human Reproduction Update</i> , <b>2015</b> , 21, 310-28	15.8	87
88	Effects of pure FSH and LH preparations on the number and function of Leydig cells in immature hypophysectomized rats. <i>Journal of Endocrinology</i> , <b>1989</b> , 120, 97-106	4.7	87
87	Reduced recruitment and survival of primordial and growing follicles in GH receptor-deficient mice. <i>Reproduction</i> , <b>2006</b> , 131, 525-32	3.8	77
86	The histone deacetylase SIRT1 controls male fertility in mice through regulation of hypothalamic-pituitary gonadotropin signaling. <i>Biology of Reproduction</i> , <b>2009</b> , 80, 384-91	3.9	71
85	The role of luteinizing hormone in the pathogenesis of hyperadrenocorticism in neutered ferrets. <i>Molecular and Cellular Endocrinology</i> , <b>2002</b> , 197, 117-25	4.4	70
84	Development of the adult-type Leydig cell population in the rat is affected by neonatal thyroid hormone levels. <i>Biology of Reproduction</i> , <b>1998</b> , 59, 344-50	3.9	70
83	Immunoexpression of the steroidogenic enzymes 3-beta hydroxysteroid dehydrogenase and 17 alpha-hydroxylase, C17,20 lyase and the receptor for luteinizing hormone (LH) in the fetal rat testis suggests that the onset of Leydig cell steroid production is independent of LH action. <i>Biology of Reproduction</i> , <b>1998</b> , 58, 520-5	3.9	59
82	Estrous cycle dependent changes in expression and distribution of Fas, Fas ligand, Bcl-2, Bax, and pro- and active caspase-3 in the rat ovary. <i>Journal of Endocrinology</i> , <b>2006</b> , 188, 179-92	4.7	56
81	Homozygous mutation within the conserved Ala-Phe-Asn-Glu-Thr motif of exon 7 of the LH receptor causes male pseudohermaphroditism. <i>European Journal of Endocrinology</i> , <b>2002</b> , 147, 597-608	6.5	54
80	Identification of markers for precursor and leydig cell differentiation in the adult rat testis following ethane dimethyl sulphonate administration. <i>Biology of Reproduction</i> , <b>1999</b> , 60, 1437-45	3.9	51

- 79 Proliferation and differentiation of possible Leydig cell precursors after destruction of the existing Leydig cells with ethane dimethyl sulphonate: the role of LH/human chorionic gonadotrophin. *Journal of Endocrinology*, **1989**, 122, 689-96 4.7 51
- 78 The development of rat Leydig cell progenitors in vitro: how essential is luteinising hormone?. *Journal of Endocrinology*, **2007**, 194, 579-93 4.7 49
- 77 Immunohistochemical detection of transforming growth factor-alpha in Leydig cells during the development of the rat testis. *Molecular and Cellular Endocrinology*, **1990**, 69, R1-6 4.4 47
- 76 Stimulation of the proliferation and differentiation of Leydig cell precursors after the destruction of existing Leydig cells with ethane dimethyl sulphonate (EDS) can take place in the absence of LH. *Journal of Andrology*, **1989**, 10, 472-7 45
- 75 Development of a new Leydig cell population after the destruction of existing Leydig cells by ethane dimethane sulphonate in rats: an autoradiographic study. *Journal of Endocrinology*, **1990**, 126, 229-36 4.7 45
- 74 Ageing, testicular tumours and the pituitary-testis axis in dogs. *Journal of Endocrinology*, **2000**, 166, 153-61 4.7 41
- 73 Fas-induced apoptosis in rat thecal/interstitial cells signals through sphingomyelin-ceramide pathway. *Endocrinology*, **1998**, 139, 2041-7 4.8 41
- 72 Immunohistochemical localization of transforming growth factor-beta 1 and -beta 2 during follicular development in the adult rat ovary. *Molecular and Cellular Endocrinology*, **1992**, 84, R7-13 4.4 39
- 71 Immunohistochemical localization of 3 beta-hydroxysteroid dehydrogenase in the rat ovary during follicular development and atresia. *Biology of Reproduction*, **1993**, 49, 989-96 3.9 38
- 70 Proper application of antibodies for immunohistochemical detection: antibody crimes and how to prevent them. *Endocrinology*, **2014**, 155, 676-87 4.8 36
- 69 Leydig cell apoptosis after the administration of ethane dimethanesulfonate to the adult male rat is a Fas-mediated process. *Endocrinology*, **1999**, 140, 3797-804 4.8 36
- 68 Effects of GnRH immunization in sexually mature pony stallions. *Animal Reproduction Science*, **2005**, 86, 247-59 2.1 35
- 67 Turnover time of Leydig cells and other interstitial cells in testes of adult rats. *Archives of Andrology*, **1989**, 23, 105-11 35
- 66 Cadmium kinetics in freshwater clams. II. A comparative study of cadmium uptake and cellular distribution in the unionidae *Anodonta cygnea*, *Anodonta anatina*, and *Unio pictorum*. *Archives of Environmental Contamination and Toxicology*, **1986**, 15, 9-21 3.2 35
- 65 Preantral follicular atresia occurs mainly through autophagy, while antral follicles degenerate mostly through apoptosis. *Biology of Reproduction*, **2018**, 99, 853-863 3.9 34
- 64 Induction of apoptosis in thecal/interstitial cells: action of transforming growth factor (TGF) alpha plus TGF beta on bcl-2 and interleukin-1 beta-converting enzyme. *Journal of Endocrinology*, **1998**, 157, 489-94 4.7 33
- 63 Immunolocalization of transforming growth factor alpha and luteinizing hormone receptor in healthy and atretic follicles of the adult rat ovary. *Biology of Reproduction*, **1995**, 52, 500-8 3.9 31
- 62 Sterol carrier protein 2 (non-specific lipid transfer protein) is localized in membranous fractions of Leydig cells and Sertoli cells but not in germ cells. *Lipids and Lipid Metabolism*, **1992**, 1124, 288-96 31

61	Regulation of transforming growth factor alpha gene expression in an ovarian surface epithelial cell line derived from a human carcinoma. <i>Biology of Reproduction</i> , <b>1995</b> , 52, 1027-37	3.9	29
60	In vitro effects of ethylene-dimethane sulfonate (EDS) on Leydig cells: inhibition of steroid production and cytotoxic effects are dependent on species and age of rat. <i>Molecular and Cellular Endocrinology</i> , <b>1988</b> , 55, 87-94	4.4	29
59	The endocrine disruptors dibutyl phthalate (DBP) and diethylstilbestrol (DES) influence Leydig cell regeneration following ethane dimethane sulphonate treatment of adult male rats. <i>Journal of Developmental and Physical Disabilities</i> , <b>2012</b> , 35, 353-63		27
58	Increased protein expression of LHCG receptor and 17 $\beta$ hydroxylase/17-20-lyase in human polycystic ovaries. <i>Human Reproduction</i> , <b>2013</b> , 28, 3086-92	5.7	25
57	Knockout of the Bcmo1 gene results in an inflammatory response in female lung, which is suppressed by dietary beta-carotene. <i>Cellular and Molecular Life Sciences</i> , <b>2010</b> , 67, 2039-56	10.3	24
56	Functional properties of developing rat Leydig cells after treatment with ethylene dimethanesulphonate (EDS). <i>Reproduction</i> , <b>1988</b> , 84, 63-9	3.8	24
55	Induction of apoptosis in rat thecal/interstitial cells by transforming growth factor alpha plus transforming growth factor beta in vitro. <i>Journal of Endocrinology</i> , <b>1997</b> , 153, 169-78	4.7	23
54	Development, DNA fragmentation and cell death in porcine embryos after 24 h storage under different conditions. <i>Theriogenology</i> , <b>2004</b> , 61, 147-58	2.8	23
53	Role of Fas-mediated apoptosis and follicle-stimulating hormone on the developmental capacity of bovine cumulus oocyte complexes in vitro. <i>Biology of Reproduction</i> , <b>2004</b> , 71, 790-6	3.9	22
52	Dietary-induced hyperthyroidism marginally affects neonatal testicular development. <i>Journal of Andrology</i> , <b>2008</b> , 29, 643-53		21
51	Luteinizing hormone inhibits Fas-induced apoptosis in ovarian surface epithelial cell lines. <i>Journal of Endocrinology</i> , <b>2006</b> , 188, 227-39	4.7	20
50	Presence of anti-Müllerian hormone (AMH) during follicular development in the porcine ovary. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197894	3.7	17
49	Prenatal induced chronic dietary hypothyroidism delays but does not block adult-type Leydig cell development. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 296, E305-14	6	17
48	Expression of the insulin-like growth factor (IGF) system and steroidogenic enzymes in canine testis tumors. <i>Reproductive Biology and Endocrinology</i> , <b>2003</b> , 1, 22	5	17
47	hCG-induced changes in LH/CG receptor mRNA transcript levels in the testis of adult hypophysectomized, ethane dimethyl sulphonate-treated rats. <i>Molecular and Cellular Endocrinology</i> , <b>1994</b> , 105, 37-44	4.4	17
46	Dietary-Induced Chronic Hypothyroidism Negatively Affects Rat Follicular Development and Ovulation Rate and Is Associated with Oxidative Stress. <i>Biology of Reproduction</i> , <b>2016</b> , 94, 90	3.9	16
45	Expression of receptors for luteinizing hormone, gastric-inhibitory polypeptide, and vasopressin in normal adrenal glands and cortisol-secreting adrenocortical tumors in dogs. <i>Domestic Animal Endocrinology</i> , <b>2010</b> , 39, 63-75	2.3	16
44	Effect of a Dopamine agoniste on the development of Leydig cellhyperplasia in Sprague-Dawley rats. <i>Toxicology and Applied Pharmacology</i> , <b>1996</b> , 141, 169-177	4.6	16

43	Thermoneutrality results in prominent diet-induced body weight differences in C57BL/6J mice, not paralleled by diet-induced metabolic differences. <i>Molecular Nutrition and Food Research</i> , <b>2014</b> , 58, 799-807	5.9	15
42	Steroidogenesis-inducing protein promotes deoxyribonucleic acid synthesis in Leydig cells from immature rats. <i>Endocrinology</i> , <b>1992</b> , 130, 599-606	4.8	15
41	Transforming growth factor beta production during rat cytomegalovirus infection. <i>Journal of General Virology</i> , <b>1997</b> , 78 ( Pt 1), 205-13	4.9	15
40	Prolonged hypothyroidism severely reduces ovarian follicular reserve in adult rats. <i>Journal of Ovarian Research</i> , <b>2017</b> , 10, 19	5.5	14
39	Rat testicular germ cells and Sertoli cells release different types of bioactive transforming growth factor beta in vitro. <i>Reproductive Biology and Endocrinology</i> , <b>2003</b> , 1, 3	5	14
38	Transplantation and subsequent recovery of small amounts of isolated Leydig cells. <i>Archives of Andrology</i> , <b>1989</b> , 22, 123-9		14
37	Primary human testicular PDGFR $\beta$ cells are multipotent and can be differentiated into cells with Leydig cell characteristics in vitro. <i>Human Reproduction</i> , <b>2019</b> , 34, 1621-1631	5.7	13
36	Dynamics of Leydig Cell Regeneration After EDS <b>2007</b> , 91-116		13
35	Consequences of negative energy balance on follicular development and oocyte quality in primiparous sows <i>Biology of Reproduction</i> , <b>2020</b> , 102, 388-398	3.9	13
34	Amplification of R-spondin1 signaling induces granulosa cell fate defects and cancers in mouse adult ovary. <i>Oncogene</i> , <b>2017</b> , 36, 208-218	9.2	12
33	Effects of hypophysectomy and human chorionic gonadotrophin on Leydig cell function in mature rats. <i>Journal of Endocrinology</i> , <b>1990</b> , 126, 367-75	4.7	12
32	Characteristics of Circular RNA Expression Profiles of Porcine Granulosa Cells in Healthy and Atretic Antral Follicles. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	11
31	Follicular development of sows at weaning in relation to estimated breeding value for within-litter variation in piglet birth weight. <i>Animal</i> , <b>2019</b> , 13, 554-563	3.1	10
30	Assuring safety without animal testing: the case for the human testis in vitro. <i>Reproductive Toxicology</i> , <b>2013</b> , 39, 63-8	3.4	9
29	Time course and role of luteinizing hormone and follicle-stimulating hormone in the expansion of the Leydig cell population at the time of puberty in the rhesus monkey ( <i>Macaca mulatta</i> ). <i>Andrology</i> , <b>2014</b> , 2, 924-30	4.2	9
28	Irregularly shaped inclusion cysts display increased expression of Ki67, Fas, Fas ligand, and procaspase-3 but relatively little active caspase-3. <i>International Journal of Gynecological Cancer</i> , <b>2006</b> , 16, 231-9	3.5	9
27	Leydig cell number and function in the adult cynomolgus monkey ( <i>Macaca fascicularis</i> ) is increased by daily hCG treatment but not by daily FSH treatment. <i>Reproduction</i> , <b>1989</b> , 87, 141-6	3.8	8
26	Gender specific differences in the liver proteome of rats exposed to short term and low-concentration hexabromocyclododecane (HBCD). <i>Toxicology Research</i> , <b>2016</b> , 5, 1273-1283	2.6	7

25	Transcriptome Analysis of Porcine Granulosa Cells in Healthy and Atretic Follicles: Role of Steroidogenesis and Oxidative Stress. <i>Antioxidants</i> , <b>2020</b> , 10,	7.1	7
24	A comparative analysis of human adult testicular cells expressing stem Leydig cell markers in the interstitium, vasculature, and peritubular layer. <i>Andrology</i> , <b>2020</b> , 8, 1265-1276	4.2	6
23	Transient Hypothyroidism: Dual Effect on Adult-Type Leydig Cell and Sertoli Cell Development. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 323	4.6	6
22	Steroidogenesis-inducing protein interacts with transforming growth factor-beta to stimulate DNA synthesis in rat granulosa cells. <i>Molecular and Cellular Endocrinology</i> , <b>1992</b> , 89, 97-103	4.4	6
21	Follicular fluid steroid profile in sows: relationship to follicle size and oocyte quality <i>Biology of Reproduction</i> , <b>2020</b> , 102, 740-749	3.9	6
20	Polar effects of concanavalin A on the cortical cytoskeleton of a molluscan egg ( <i>Nassarius reticulatus</i> , Gastropoda). <i>Roux's Archives of Developmental Biology</i> , <b>1991</b> , 200, 8-20		5
19	Multiple regulation of testicular steroidogenesis. <i>The Journal of Steroid Biochemistry</i> , <b>1987</b> , 27, 309-16		5
18	Effects of birthweight on reproductive system development and onset of puberty in gilts. <i>Reproduction, Fertility and Development</i> , <b>2017</b> , 29, 254-261	1.8	4
17	Arthrospira (Spirulina) platensis supplementation affects folliculogenesis, progesterone and ghrelin levels in fattening pre-pubertal gilts. <i>Journal of Applied Phycology</i> , <b>2018</b> , 30, 445-452	3.2	4
16	In ovaries with high or low variation in follicle size, granulosa cells of antral follicles exhibit distinct size-related processes. <i>Molecular Human Reproduction</i> , <b>2019</b> , 25, 614-624	4.4	4
15	Hormone-induced resistance of rat Leydig cells to the cytotoxic effects of ethane-1,2-dimethane sulphonate. <i>Journal of Endocrinology</i> , <b>1992</b> , 134, 85-90	4.7	4
14	Oncostatin-M inhibits luteinizing hormone stimulated Leydig cell progenitor formation in vitro. <i>Reproductive Biology and Endocrinology</i> , <b>2007</b> , 5, 43	5	3
13	Hexadecylphosphocholine causes rapid cell death in canine mammary tumour cells. <i>European Journal of Pharmacology</i> , <b>2004</b> , 502, 185-93	5.3	3
12	Characterization of Long Non-Coding RNA Profiles in Porcine Granulosa Cells of Healthy and Atretic Antral Follicles: Implications for a Potential Role in Apoptosis. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
11	Regulation of DNA Synthesis in Leydig Cells <b>1994</b> , 151-166		3
10	Effect of a dopamine agonist on the development of Leydig cell hyperplasia in Sprague-Dawley rats. <i>Toxicology and Applied Pharmacology</i> , <b>1996</b> , 141, 169-77	4.6	3
9	Chronic hypothyroidism only marginally affects adult-type Leydig cell regeneration after EDS administration. <i>Journal of Developmental and Physical Disabilities</i> , <b>2010</b> , 33, e123-31		2
8	Total ligation of the left renal vein in the dog: an inappropriate model for varicocele. <i>Journal of Developmental and Physical Disabilities</i> , <b>1991</b> , 14, 348-58		2

7	Cell lineage-specific inhibition of cytokinesis by concanavalin A in a molluscan embryo ( <i>Nassarius reticulatus</i> , Gastropoda). <i>Roux &amp; Archives of Developmental Biology</i> , <b>1991</b> , 200, 21		2
6	Pseudo-Starvation Driven Energy Expenditure Negatively Affects Ovarian Follicle Development. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
5	Steroid profile of porcine follicular fluid and blood serum: Relation with follicular development. <i>Physiological Reports</i> , <b>2019</b> , 7, e14320	2.6	2
4	Leydig Cells <b>2018</b> , 30-38		1
3	Effects of Bisphenol A on reproductive toxicity and gut microbiota dysbiosis in male rats.. <i>Ecotoxicology and Environmental Safety</i> , <b>2022</b> , 239, 113623	7	0
2	Proliferation and Differentiation of Leydig Cells in the Rat Testis. <i>Annals of the New York Academy of Sciences</i> , <b>1987</b> , 513, 344-346	6.5	
1	Reduced fetal androgen exposure compromises Leydig cell function in adulthood. <i>Asian Journal of Andrology</i> , <b>2015</b> , 17, 219-20	2.8	