Yoshiakira Kanai

List of Publications by Year
in descending order

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130 papers	5,268 citations	109264 35 h-index	91828 69 g-index
133 all docs	133 docs citations	133 times ranked	5600 citing authors

#	Article	IF	Citations
1	Depletion of definitive gut endoderm inSox17-null mutant mice. Development (Cambridge), 2002, 129, 2367-2379.	1.2	594
2	Depletion of definitive gut endoderm in Sox17-null mutant mice. Development (Cambridge), 2002, 129, 2367-79.	1.2	261
3	Epigenetic Regulation of Mouse Sex Determination by the Histone Demethylase Jmjd1a. Science, 2013, 341, 1106-1109.	6.0	217
4	SOX9 Regulates Prostaglandin D Synthase Gene Transcription in Vivo to Ensure Testis Development. Journal of Biological Chemistry, 2007, 282, 10553-10560.	1.6	203
5	Identification of two Sox17 messenger RNA isoforms, with and without the high mobility group box region, and their differential expression in mouse spermatogenesis.. Journal of Cell Biology, 1996, 133, 667-681.	2.3	195
6	A critical time window ofSryaction in gonadal sex determination in mice. Development (Cambridge), 2009, 136, 129-138.	1.2	189
7	Redundant roles of Sox17 and Sox18 in postnatal angiogenesis in mice. Journal of Cell Science, 2006, 119, 3513-3526.	1.2	178
8	Early endoderm development in vertebrates: lineage differentiation and morphogenetic function. Current Opinion in Genetics and Development, 2003, 13, 393-400.	1.5	166
9	Redundant roles of Sox17 and Sox18 in early cardiovascular development of mouse embryos. Biochemical and Biophysical Research Communications, 2007, 360, 539-544.	1.0	155
10	Cbx2, a Polycomb Group Gene, Is Required for Sry Gene Expression in Mice. Endocrinology, 2012, 153, 913-924.	1.4	131
11	Isolation, characterization, andin vitroandin vivodifferentiation of putative thecal stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12389-12394.	3.3	122
12	Identification of Sox17 as a Transcription Factor That Regulates Oligodendrocyte Development. Journal of Neuroscience, 2006, 26, 9722-9735.	1.7	121
13	Competition for Mitogens Regulates Spermatogenic Stem Cell Homeostasis in an Open Niche. Cell Stem Cell, 2019, 24, 79-92.e6.	5.2	105
14	Structural and Functional Characterization of the Mouse Sox9 Promoter: Implications for Campomelic Dysplasia. Human Molecular Genetics, 1999, 8, 691-696.	1.4	93
15	AKT signaling promotes derivation of embryonic germ cells from primordial germ cells. Development (Cambridge), 2008, 135, 869-879.	1.2	87
16	Matrix metalloproteinase (MMP) system in brain: identification and characterization of brain-specific MMP highly expressed in cerebellum. European Journal of Neuroscience, 2001, 13, 935-948.	1.2	84
17	Homeoproteins Six1 and Six4 Regulate Male Sex Determination and Mouse Gonadal Development. Developmental Cell, 2013, 26, 416-430.	3.1	82
18	FGF signaling directs a center-to-pole expansion of tubulogenesis in mouse testis differentiation. Development (Cambridge), 2010, 137, 303-312.	1.2	79

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19	Crucial Role of the Small GTPase ARF6 in Hepatic Cord Formation during Liver Development. Molecular and Cellular Biology, 2006, 26, 6149-6156.	1.1	77
20	Evidence for crucial role of hindgut expansion in directing proper migration of primordial germ cells in mouse early embryogenesis. Developmental Biology, 2009, 330, 427-439.	0.9	74
21	Production of Sry knockout mouse using TALEN via oocyte injection. Scientific Reports, 2013, 3, 3136.	1.6	72
22	Sox17 plays a substantial role in late-stage differentiation of the extraembryonic endoderm in vitro. Journal of Cell Science, 2007, 120, 3859-3869.	1.2	67
23	From SRY to SOX9: Mammalian Testis Differentiation. Journal of Biochemistry, 2005, 138, 13-19.	0.9	66
24	Influence on spatiotemporal patterns of a male-specific Sox9 activation by ectopic Sry expression during early phases of testis differentiation in mice. Developmental Biology, 2005, 278, 511-525.	0.9	66
25	Induction of spermatogenic cell apoptosis in prepubertal rat testes irrespective of testicular steroidogenesis: a possible estrogenic effect of di(n-butyl) phthalate. Reproduction, 2010, 139, 427-437.	1.1	63
26	Cofilin phosphorylation and actin polymerization by NRK/NESK, a member of the germinal center kinase family. Experimental Cell Research, 2003, 287, 219-227.	1.2	60
27	Sox17 haploinsufficiency results in perinatal biliary atresia and hepatitis in C57BL/6 background mice. Development (Cambridge), 2013, 140, 639-648.	1.2	57
28	Insulin-Like Growth Factor (IGF)-I Stimulates Proliferation and Migration of Mouse Ectoplacental Cone Cells, While IGF-II Transforms them into Trophoblastic Giant Cells in Vitro1. Biology of Reproduction, 1993, 48, 252-261.	1.2	54
29	Di(nâ€butyl) Phthalate Induces Vimentin Filaments Disruption in Rat Sertoli Cells: A Possible Relation with Spermatogenic Cell Apoptosis. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2010, 39, 186-193.	0.3	50
30	From Sex Determination to Initial Folliculogenesis in Mammalian Ovaries: Morphogenetic Waves along the Anteroposterior and Dorsoventral Axes. Sexual Development, 2015, 9, 190-204.	1.1	50
31	Cyclical and Patch-Like GDNF Distribution along the Basal Surface of Sertoli Cells in Mouse and Hamster Testes. PLoS ONE, 2011, 6, e28367.	1.1	49
32	The Cerebellin 4 Precursor Gene Is a Direct Target of SRY and SOX9 in Mice1. Biology of Reproduction, 2009, 80, 1178-1188.	1.2	44
33	Early gonadogenesis in mammals: Significance of long and narrow gonadal structure. Developmental Dynamics, 2013, 242, 330-338.	0.8	44
34	Nrk: a murine X-linked NIK (Nck-interacting kinase)-related kinase gene expressed in skeletal muscle. Mechanisms of Development, 1999, 89, 155-159.	1.7	40
35	Establishment of testis-specific SOX9 activation requires high-glucose metabolism in mouse sex differentiation. Developmental Biology, 2008, 324, 76-87.	0.9	40
36	Mouse Sox17 haploinsufficiency leads to female subfertility due to impaired implantation. Scientific Reports, 2016, 6, 24171.	1.6	36

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37	A Niche for GFRÎ±1-Positive Spermatogonia in the Terminal Segments of the Seminiferous Tubules in Hamster Testes. Stem Cells, 2015, 33, 2811-2824.	1.4	35
38	Heterogeneity in sexual bipotentiality and plasticity of granulosa cells in developing mouse ovaries. Journal of Cell Science, 2013, 126, 2834-44.	1.2	34
39	Expression and function of mouse Sox17 gene in the specification of gallbladder/bile-duct progenitors during early foregut morphogenesis. Biochemical and Biophysical Research Communications, 2010, 391, 357-363.	1.0	31
40	Lectin-Binding Patterns in the Spermatogenic Cells of the Shiba Goat Testis.. Journal of Veterinary Medical Science, 1991, 53, 893-897.	0.3	29
41	Conditional activation of RhoA suppresses the epithelial to mesenchymal transition at the primitive streak during mouse gastrulation. Biochemical and Biophysical Research Communications, 2004, 318, 665-672.	1.0	29
42	Crucial Transcription Factors in Endoderm and Embryonic Gut Development Are Expressed in Gut-Like Structures from Mouse ES Cells. Stem Cells, 2006, 24, 624-630.	1.4	29
43	Disappearance of Vimentin in Sertoli Cells: A Mono(2-ethylhexyl) Phthalate Effect. International Journal of Toxicology, 2007, 26, 289-296.	0.6	29
44	Single administration of butylparaben induces spermatogenic cell apoptosis in prepubertal rats. Acta Histochemica, 2014, 116, 474-480.	0.9	29
45	Changes in lectin binding pattern of gonalds of developing mice. Histochemistry, 1989, 92, 37-42.	1.9	28
46	Localization of forssman glycolipid and GM1 ganglioside intracellularly and on the surface of germ cells during fetal testicular and ovarian development of mice. Histochemistry, 1990, 94, 561-8.	1.9	28
47	A cytological and cytoskeletal comparison of sertoli cells without germ cell and those with germ cells using the W/Wv mutant mouse. Tissue and Cell, 1992, 24, 895-903.	1.0	28
48	Sox17-Mediated Maintenance of Fetal Intra-Aortic Hematopoietic Cell Clusters. Molecular and Cellular Biology, 2014, 34, 1976-1990.	1.1	28
49	Gut endoderm is involved in the transfer of left-right asymmetry from the node to the lateral plate mesoderm in the mouse embryo. Development (Cambridge), 2012, 139, 2426-2435.	1.2	27
50	Identification of a stromal cell type characterized by the secretion of a soluble integrin-binding protein, MFG-E8, in mouse early gonadogenesis. Mechanisms of Development, 2000, 96, 223-227.	1.7	25
51	Regionally distinct potencies of mouse XY genital ridge to initiate testis differentiation dependent on anteroposterior axis. Developmental Dynamics, 2003, 228, 247-253.	0.8	25
52	Expression of Prnp mRNA (Prion Protein Gene) in Mouse Spermatogenic Cells. Journal of Reproduction and Development, 2004, 50, 565-570.	0.5	24
53	Sox17-dependent gene expression and early heart and gut development in Sox17-deficient mouse embryos. International Journal of Developmental Biology, 2011, 55, 45-58.	0.3	24
54	Spermatogonial deubiquitinase USP9X is essential for proper spermatogenesis in mice. Reproduction, 2017, 154, 135-143.	1.1	24

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55	Anatomy and development of the extrahepatic biliary system in mouse and rat: a perspective on the evolutionary loss of the gallbladder. Journal of Anatomy, 2018, 232, 134-145.	0.9	24
56	A novel Sry-downstream cellular event which preserves the readily available energy source of glycogen in mouse sex differentiation. Journal of Cell Science, 2005, 118, 1449-1459.	1.2	23
57	Endocardium differentiation through Sox17 expression in endocardium precursor cells regulates heart development in mice. Scientific Reports, 2019, 9, 11953.	1.6	23
58	Stage- and sex-dependent expressions of Usp9x, an X-linked mouse ortholog of Drosophila Fat facets, during gonadal development and oogenesis in mice. Mechanisms of Development, 2002, 119, S91-S95.	1.7	22
59	Mono-(2-ethylhexyl) Phthalate (MEHP) Induces Spermatogenic Cell Apoptosis in Guinea Pig Testes at Prepubertal Stage In Vitro. International Journal of Toxicology, 2004, 23, 349-355.	0.6	22
60	Mono-(2-ethylhexyl) phthalate (MEHP) induces testicular alterations in male guinea pigs at prepubertal stage. Tissue and Cell, 2005, 37, 167-175.	1.0	21
61	Nerve Growth Factor Promotes Giant-Cell Transformation of Mouse Trophoblast Cellsin Vitro. Biochemical and Biophysical Research Communications, 1997, 231, 309-315.	1.0	20
62	Involvement of Actin Filaments in Mouse Testicular Cord Organization in Vivo and in Vitro1. Biology of Reproduction, 1992, 46, 233-245.	1.2	19
63	Anatomy of the Murine Hepatobiliary System: A Wholeâ€Organâ€Level Analysis Using a Transparency Method. Anatomical Record, 2016, 299, 161-172.	0.8	19
64	Effect of tunicamycin, an inhibitor of protein glycosylation, on testicular cord organization in fetal mouse gonadal explants in vitro. The Anatomical Record, 1991, 230, 199-208.	2.3	18
65	Single administration of di(n-butyl) phthalate delays spermatogenesis in prepubertal rats. Tissue and Cell, 2010, 42, 129-135.	1.0	18
66	A novel Amh-Treck transgenic mouse line allows toxin-dependent loss of supporting cells in gonads. Reproduction, 2014, 148, H1-H9.	1.1	17
67	On the vagal cardiac nerves, with special reference to the early evolution of the headâ€“trunk interface. Journal of Morphology, 2016, 277, 1146-1158.	0.6	17
68	An ultrastructural study on cytotoxic effects of mono(2-ethylhexyl) phthalate (MEHP) on testes in Shiba goat in vitro. Journal of Veterinary Science, 2004, 5, 235.	0.5	17
69	Testicular Dynamics in Syrian Hamsters Exposed to Both Short Photoperiod and Low Ambient Temperature. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2005, 34, 220-224.	0.3	16
70	Effects of di-iso-butyl phthalate on testes of prepubertal rats and mice. Okajimas Folia Anatomica Japonica, 2010, 86, 129-136.	1.2	16
71	Evidence for Almost Complete Sex-reversal in Bovine Freemartin Gonads: Formation of Seminiferous Tubule-like Structures and Transdifferentiation into Typical Testicular Cell Types. Journal of Reproduction and Development, 2012, 58, 654-660.	0.5	16
72	Dynamics of GFRÎ±1â€positive spermatogonia at the early stages of colonization in the recipient testes of W/W^{Î½} male mice. Developmental Dynamics, 2012, 241, 1374-1384.	0.8	16

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73	Embryonic cholecystitis and defective gallbladder contraction in the Sox17-haploinsufficient model of biliary atresia. Development (Cambridge), 2017, 144, 1906-1917.	1.2	15
74	Regionally distinct patterns of STAT3 phosphorylation in the seminiferous epithelia of mouse testes. Molecular Reproduction and Development, 2018, 85, 262-270.	1.0	15
75	Sox17 Regulates Liver Lipid Metabolism and Adaptation to Fasting. PLoS ONE, 2014, 9, e104925.	1.1	15
76	Cycle of the Seminiferous Epithelium in the Java Fruit Bat (Pteropus vampyrus) and the Japanese Lesser Horseshoe Bat (Rhinolophus cornutus).. Journal of Veterinary Medical Science, 2001, 63, 773-779.	0.3	14
77	Potency of testicular somatic environment to support spermatogenesis in XX/Sry transgenic male mice. Development (Cambridge), 2007, 134, 449-454.	1.2	13
78	InÂvivo dynamics of GFRÎ±1-positive spermatogonia stimulated by GDNF signals using a bead transplantation assay. Biochemical and Biophysical Research Communications, 2016, 476, 546-552.	1.0	12
79	Changes in cell surface and intracellular glycoproteins of trophoblastic giant cells during mouse placentation. Histochemistry, 1991, 95, 541-548.	1.9	11
80	Low retinoic acid levels mediate regionalization of the Sertoli valve in the terminal segment of mouse seminiferous tubules. Scientific Reports, 2021, 11, 1110.	1.6	11
81	An Ultrastructural Study on the Effects of Mono(2-ethylhexyl) Phthalate on Mice Testes: Cell Death and Sloughing of Spermatogenic Cells. Okajimas Folia Anatomica Japonica, 2007, 83, 123-130.	1.2	11
82	Formation of male and female sex cords in gonadal development of C57BL/6 mouse.. Nihon Juigaku Zasshi, 1989, 51, 7-16.	0.3	10
83	Reinitiation of Spermatogonial Mitotic Differentiation in Inactive Old BDF1 Mouse Seminiferous Tubules Transplanted to W/Wv Mouse Testis1. Biology of Reproduction, 1996, 55, 1237-1242.	1.2	10
84	Phagocytosis plays an important role in clearing dead cells caused by mono(2-ethylhexyl) phthalate administration. Tissue and Cell, 2007, 39, 241-246.	1.0	10
85	Sox17 is essential for proper formation of the marginal zone of extraembryonic endoderm adjacent to a developing mouse placental diskâ€. Biology of Reproduction, 2018, 99, 578-589.	1.2	10
86	Changes in Intracellular and Cell Surface Localization of Lex Epitope during Germ Cell Differentiation in Fetal Mice.. Journal of Veterinary Medical Science, 1992, 54, 297-303.	0.3	9
87	Five azacytidine, a DNA methyltransferase inhibitor, specifically inhibits testicular cord formation and Sertoli cell differentiation in vitro. Molecular Reproduction and Development, 2008, 75, 1002-1010.	1.0	9
88	A New Preparation Protocol for Measurement of Testicular Sperm Production. Journal of Reproduction and Development, 2008, 54, 90-93.	0.5	9
89	Molecular and genetic characterization of partial masculinization in embryonic ovaries grafted into male nude mice. PLoS ONE, 2019, 14, e0212367.	1.1	9
90	Effects of Mono(2-ethylhexyl) Phthalate (MEHP) on Testes in Rats In Vitro. Okajimas Folia Anatomica Japonica, 2004, 80, 127-136.	1.2	9

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91	A close correlation in the expression patterns of Af-6 and Usp9x in Sertoli and granulosa cells of mouse testis and ovary. Reproduction, 2004, 128, 583-594.	1.1	8
92	Maintenance of hematopoietic stem and progenitor cells in fetal intra-aortic hematopoietic clusters by the Sox17-Notch1-Hes1 axis. Experimental Cell Research, 2018, 365, 145-155.	1.2	8
93	Germ cell-intrinsic requirement for the homeodomain transcription factor PKnox1/Prep1 in adult spermatogenesis. PLoS ONE, 2018, 13, e0190702.	1.1	8
94	Changes in Lectin Binding Patterns of Chick Primordial Germ Cells and Sertoli Cells during Sexual Diffrentiation.. Journal of Veterinary Medical Science, 1995, 57, 623-627.	0.3	7
95	Fate mapping of gallbladder progenitors in posteroventral foregut endoderm of mouse early somite-stage embryos. Journal of Veterinary Medical Science, 2015, 77, 587-591.	0.3	7
96	Gallbladder wall abnormality in biliary atresia of mouse Sox17+/â^' neonates and human infants. DMM Disease Models and Mechanisms, 2020, 13, .	1.2	7
97	MAB21L1 modulates gene expression and DNA metabolic processes in the lens placode. DMM Disease Models and Mechanisms, 2021, 14, .	1.2	7
98	Effect of Placental Soluble Factors on Growth and Differentiation of Mouse Ectoplacental Cone In Vitro.. Journal of Veterinary Medical Science, 1991, 53, 839-845.	0.3	6
99	Effects of extracellular matrix on differentiation of mouse fetal gonads in the absence of mesonephros in vitro. Microscopy Research and Technique, 1995, 32, 437-448.	1.2	6
100	Defects in the first wave of folliculogenesis in mouse XO ovaries. Journal of Reproduction and Development, 2017, 63, 333-338.	0.5	6
101	Single-cell transcriptional analysis reveals developmental stage-dependent changes in retinal progenitors in the murine early optic vesicle. Biochemical and Biophysical Research Communications, 2021, 543, 80-86.	1.0	6
102	An ultrastructural study on cytotoxic effects of mono(2-ethylhexyl) phthalate (MEHP) on testes in Shiba goat in vitro. Journal of Veterinary Science, 2004, 5, 235-40.	0.5	6
103	Adhesion activity of fetal gonadal cells to EGF and discoidin domains of milk fat globule-EGF factor 8 (MFG-E8), a secreted integrin-binding protein which is transiently expressed in mouse early gonadogenesis. Anatomy and Embryology, 2005, 209, 485-494.	1.5	5
104	Lectin-Binding Patterns in the Testes of the Java Fruit Bat (Pteropus vampyrus) and the Japanese Lesser Horseshoe Bat (Rhinolophus cornutus).. Journal of Reproduction and Development, 2000, 46, 309-314.	0.5	4
105	Bisphenol A-induced morphological alterations in Sertoli and spermatogenic cells of immature Shiba goatsin vitro: An ultrastructural study. Reproductive Medicine and Biology, 2004, 3, 205-210.	1.0	4
106	Differential lactate and cholesterol synthetic activities in XY and XX Sertoli cells. Scientific Reports, 2017, 7, 41912.	1.6	4
107	CRISPR/Cas9-mediated knock-in of the murine Y chromosomal Sry gene. Journal of Reproduction and Development, 2018, 64, 283-287.	0.5	4
108	Gene expression and functional abnormalities in XX/Sry Leydig cells. Scientific Reports, 2021, 11, 719.	1.6	4

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109	Effects of Trichostatin A, a Histone Deacetylase Inhibitor, on Mouse Gonadal Development In Vitro. Journal of Reproduction and Development, 2004, 50, 227-235.	0.5	4
110	Multivesicular Nuclear Body in Sertoli Cells of the Lesser Mouse Deer, Tragulus javanicus. Okajimas Folia Anatomica Japonica, 2003, 80, 35-40.	1.2	4
111	Nr5a1 suppression during the fetal period optimizes ovarian development by fine-tuning of Notch signaling. Journal of Cell Science, 2019, 132, .	1.2	3
112	Fetal Ovotestes in XX.DARRLR.XY Chimeric Mice Develop into Testes in Adults.. Journal of Reproduction and Development, 1994, 40, 39-48.	0.5	3
113	Giant-Cell Transformation of Trophoblast Cells in Mice. Endocrine Journal, 1994, 41, S33-S41.	0.7	2
114	Comparative anatomy of the hepatobiliary systems in quail and pigeon, with a perspective for the gallbladder-loss. Journal of Veterinary Medical Science, 2021, 83, 855-862.	0.3	2
115	Sertoli cell replacement in explanted mouse testis tissue supporting host spermatogenesisâ€. Biology of Reproduction, 2021, 105, 934-943.	1.2	2
116	Postnatal Development of Multivesicular Nuclear Body in the Shiba Goat Sertoli Cell: An Ultrastructural Study. Okajimas Folia Anatomica Japonica, 2004, 81, 15-24.	1.2	2
117	A Lectin-Histochemical Study on the Seminiferous Epithelium of the Northern Smooth-Tailed Tree Shrew (Dendrogale murina)and the Java Tree Shrew (Tupaia javanica). Okajimas Folia Anatomica Japonica, 2000, 77, 63-68.	1.2	2
118	Expression Pattern of .ALPHA.v.BETA.3 and .ALPHA.v.BETA.5 Integrin mRNA in Mouse Fetal Gonads. Journal of Reproduction and Development, 2006, 52, 461-468.	0.5	2
119	Histochemical Detection of Sugar Residues by Joint Use of Specific Antibodies and Lectins.. Acta Histochemica Et Cytochemica, 1995, 28, 191-192.	0.8	1
120	Distribution of Desmin and Fibronectin in Chick Embryo Gonad during Testicular Cord Formation. Journal of Veterinary Medical Science, 1997, 59, 581-585.	0.3	1
121	Differentiation of Ovaries â˜†. , 2018, , .		1
122	Biliary System; Anatomy and Development. , 2020, , 314-324.		1
123	Anatomical and histological characteristics of the hepatobiliary system in adult Sox17 heterozygote mice. Anatomical Record, 2020, 303, 3096-3107.	0.8	1
124	Verifying of endocrine disruptor chemical affect to the mouse testes: can raman spectroscopy support histology study?. Proceedings of SPIE, 2009, , .	0.8	0
125	Data on in vivo phenotypes of GFRÎ±1-positive spermatogonia stimulated by interstitial GDNF signals in mouse testes. Data in Brief, 2016, 8, 1255-1258.	0.5	0
126	Sex Determination and Differentiation in Mammals. Diversity and Commonality in Animals, 2018, , 407-433.	0.7	0

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127	Ratio of Peripheral Nervous Tissues in Tongues, Skeletal Muscles and Intestines in Cows. Okajimas Folia Anatomica Japonica, 2008, 85, 73-77.	1.2	0
128	Heterogeneity in sexual bipotentiality and plasticity of granulosa cells in developing mouse ovaries. Development (Cambridge), 2013, 140, e1507-e1507.	1.2	0
129	Changes in Lectin Binding Patterns in Rat Testis and Epididymis in Association with Experimentally-Induced Cryptorchidism.. Journal of Reproduction and Development, 1992, 38, 99-106.	0.5	0
130	Early Crypt Formation Defects in the Uterine Epithelia of <i>Sox17</i> Heterozygous Mice. Sexual Development, 2020, 14, 40-50.	1.1	0