Norbert B Ghyselinck

List of Publications by Year
in descending order

109 papers	8,631 citations	36203 51 h-index	45213 90 g-index
116 all docs	116 docs citations	116 times ranked	9114 citing authors

#	Article	IF	Citations
1	FUNCTION OF RETINOID NUCLEAR RECEPTORS: Lessons from Genetic and Pharmacological Dissections of the Retinoic Acid Signaling Pathway During Mouse Embryogenesis. Annual Review of Pharmacology and Toxicology, 2006, 46, 451-480.	4.2	549
2	Impaired Locomotion and Dopamine Signaling in Retinoid Receptor Mutant Mice. Science, 1998, 279, 863-867.	6.0	360
3	A directional strategy for monitoring Cre-mediated recombination at the cellular level in the mouse. Nature Biotechnology, 2003, 21, 562-565.	9.4	345
4	Retinoic Acid Enhances Foxp3 Induction Indirectly by Relieving Inhibition from CD4+CD44hi Cells. Immunity, 2008, 29, 758-770.	6.6	322
5	Function of retinoic acid receptors during embryonic development. Nuclear Receptor Signaling, 2009, 7, nrs.07002.	1.0	307
6	A newborn lethal defect due to inactivation of retinaldehyde dehydrogenase type 3 is prevented by maternal retinoic acid treatment. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14036-14041.	3.3	281
7	Cellular retinol-binding protein I is essential for vitamin A homeostasis. EMBO Journal, 1999, 18, 4903-4914.	3.5	271
8	Retinoic acid-dependent eye morphogenesis is orchestrated by neural crest cells. Development (Cambridge), 2005, 132, 4789-4800.	1.2	245
9	Retinoic acid signaling pathways. Development (Cambridge), 2019, 146, .	1.2	231
10	Retinoic Acid Metabolism and Signaling Pathways in the Adult and Developing Mouse Testis. Endocrinology, 2006, 147, 96-110.	1.4	225
11	STRA8-deficient spermatocytes initiate, but fail to complete, meiosis and undergo premature chromosome condensation. Journal of Cell Science, 2008, 121, 3233-3242.	1.2	189
12	Retinoic acid induces Sertoli cell paracrine signals for spermatogonia differentiation but cell autonomously drives spermatocyte meiosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16582-16587.	3.3	184
13	FOXL2 Is a Female Sex-Determining Gene in the Goat. Current Biology, 2014, 24, 404-408.	1.8	163
14	Genomewide production of multipurpose alleles for the functional analysis of the mouse genome. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7221-7226.	3.3	161
15	Positive and negative regulation of granulopoiesis by endogenous RARÎ±. Blood, 2001, 97, 1314-1320.	0.6	122
16	Physiological and retinoid-induced proliferations of epidermis basal keratinocytes are differently controlled. EMBO Journal, 2002, 21, 3402-3413.	3.5	121
17	Essential Roles of Retinoic Acid Signaling in Interdigital Apoptosis and Control of BMP-7 Expression in Mouse Autopods. Developmental Biology, 1999, 208, 30-43.	0.9	118
18	The STRA6 Receptor Is Essential for Retinol-binding Protein-induced Insulin Resistance but Not for Maintaining Vitamin A Homeostasis in Tissues Other Than the Eye. Journal of Biological Chemistry, 2013, 288, 24528-24539.	1.6	117

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19	Retinoic acid receptor-Î²: an endogenous inhibitor of the perinatal formation of pulmonary alveoli. Physiological Genomics, 2000, 4, 51-57.	1.0	116
20	Impairing retinoic acid signalling in the neural crest cells is sufficient to alter entire eye morphogenesis. Developmental Biology, 2008, 320, 140-148.	0.9	115
21	Spermatogonia Differentiation Requires Retinoic Acid Receptor Î³. Endocrinology, 2012, 153, 438-449.	1.4	112
22	Roles of retinoic acid receptors in early embryonic morphogenesis and hindbrain patterning. Development (Cambridge), 2001, 128, 2031-2038.	1.2	111
23	Corneal Epithelial Cell Fate Is Maintained during Repair by Notch1 Signaling via the Regulation of Vitamin A Metabolism. Developmental Cell, 2007, 13, 242-253.	3.1	109
24	Genetic and pharmacological evidence that a retinoic acid cannot be the RXR-activating ligand in mouse epidermis keratinocytes. Genes and Development, 2006, 20, 1525-1538.	2.7	108
25	Prepubertal testis development relies on retinoic acid but not rexinoid receptors in Sertoli cells. EMBO Journal, 2006, 25, 5816-5825.	3.5	107
26	Working memory deficits in retinoid X receptor Â-deficient mice. Learning and Memory, 2005, 12, 318-326.	0.5	104
27	Retinoic Acid Signaling Affects Cortical Synchrony During Sleep. Science, 2005, 310, 111-113.	6.0	102
28	A genetic dissection of the retinoid signalling pathway in the mouse. Proceedings of the Nutrition Society, 1999, 58, 609-613.	0.4	101
29	Retinoids control anterior and dorsal properties in the developing forebrain. Developmental Biology, 2007, 303, 362-375.	0.9	97
30	DMRT1 Protects Male Gonadal Cells from Retinoid-Dependent Sexual Transdifferentiation. Developmental Cell, 2014, 29, 511-520.	3.1	96
31	Retinoic acid-induced developmental defects are mediated by RARÎ²/RXR heterodimers in the pharyngeal endoderm. Development (Cambridge), 2003, 130, 2083-2093.	1.2	94
32	Genetic disruption of aurora B uncovers an essential role for aurora C during early mammalian development. Development (Cambridge), 2011, 138, 2661-2672.	1.2	93
33	Retinoid Content, Visual Responses, and Ocular Morphology Are Compromised in the Retinas of Mice Lacking the Retinol-Binding Protein Receptor, STRA6. , 2012, 53, 3027.		82
34	Retinoic acid signalling in the development of branchial arches. Current Opinion in Genetics and Development, 2004, 14, 591-598.	1.5	79
35	Corneodesmosin gene ablation induces lethal skin-barrier disruption and hair-follicle degeneration related to desmosome dysfunction. Journal of Cell Science, 2009, 122, 2699-2709.	1.2	78
36	Functional Implication of the Vitamin A Signaling Pathway in the Brain. Archives of Neurology, 2007, 64, 1706.	4.9	77

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37	Retinoic acid receptors are required for skeletal growth, matrix homeostasis and growth plate function in postnatal mouse. Developmental Biology, 2009, 328, 315-327.	0.9	75
38	In vitro expression of a mouse tissue specific glutathione-peroxidase-like protein lacking the selenocysteine can protect stably transfected mammalian cells against oxidative damage. Biochemistry and Cell Biology, 1996, 74, 125-131.	0.9	74
39	Retinoids and spermatogenesis: Lessons from mutant mice lacking the plasma retinol binding protein. Developmental Dynamics, 2006, 235, 1608-1622.	0.8	73
40	Testicular Differentiation Occurs in Absence of R-spondin1 and Sox9 in Mouse Sex Reversals. PLoS Genetics, 2012, 8, e1003170.	1.5	71
41	Cellular Retinol-Binding Protein I, a Regulator of Breast Epithelial Retinoic Acid Receptor Activity, Cell Differentiation, and Tumorigenicity. Journal of the National Cancer Institute, 2005, 97, 21-29.	3.0	69
42	Response to Letter from Mucida etÂal.. Immunity, 2009, 30, 472-473.	6.6	68
43	Retinoic Acid Receptors Control Spermatogonia Cell-Fate and Induce Expression of the SALL4A Transcription Factor. PLoS Genetics, 2015, 11, e1005501.	1.5	68
44	Direct crossregulation between retinoic acid receptor Î² and Hox genes during hindbrain segmentation. Development (Cambridge), 2005, 132, 503-513.	1.2	65
45	MEI4: a central player in the regulation of meiotic DNA double strand break formation in the mouse. Journal of Cell Science, 2015, 128, 1800-11.	1.2	65
46	Ligandâ€dependent contribution of RXRÎ² to cholesterol homeostasis in Sertoli cells. EMBO Reports, 2004, 5, 285-290.	2.0	64
47	Modular patterning of structure and function of the striatum by retinoid receptor signaling. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6765-6770.	3.3	64
48	Hepatocytes Are the Principal Source of Circulating RBP4 in Mice. Diabetes, 2017, 66, 58-63.	0.3	64
49	Nuclear Detection of Cellular Retinoic Acid Binding Proteins I and II with New Antibodies. Journal of Histochemistry and Cytochemistry, 1998, 46, 1103-1111.	1.3	61
50	A conditional floxed (loxP-flanked) allele for the retinoic acid receptor alpha (RAR?) gene. Genesis, 2002, 32, 87-90.	0.8	59
51	A mouse cDNA sequence for epididymal androgen regulated proteins related to glutathione peroxidase. Nucleic Acids Research, 1990, 18, 7144-7144.	6.5	57
52	Transthyretin Blocks Retinol Uptake and Cell Signaling by the Holo-Retinol-Binding Protein Receptor STRA6. Molecular and Cellular Biology, 2012, 32, 3851-3859.	1.1	57
53	Contribution of retinoic acid receptor Î² isoforms to the formation of the conotruncal septum of the embryonic heart. Developmental Biology, 1998, 198, 303-318.	0.9	54
54	A conditional floxed (loxP-flanked) allele for the retinoic acid receptor gamma (RAR?) gene. Genesis, 2002, 32, 95-98.	0.8	53

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55	Roles of Retinoic Acid in Germ Cell Differentiation. Current Topics in Developmental Biology, 2017, 125, 191-225.	1.0	50
56	Structural organization and regulation of the gene for the androgen- dependent glutathione peroxidase-like protein specific to the mouse epididymis. Molecular Endocrinology, 1993, 7, 258-272.	3.7	50
57	Differential contributions of AF-1 and AF-2 activities to the developmental functions of RXRÎ±. Development (Cambridge), 2001, 128, 2049-2062.	1.2	46
58	Cellular Retinol-binding Protein Type III Is Needed for Retinoid Incorporation into Milk. Journal of Biological Chemistry, 2005, 280, 24286-24292.	1.6	45
59	Retinoid X receptor beta (RXRB) expression in Sertoli cells controls cholesterol homeostasis and spermiation. Reproduction, 2008, 136, 619-626.	1.1	45
60	Molecular cloning of a cDNA for androgen-regulated proteins secreted by the mouse epididymis. Journal of Molecular Endocrinology, 1990, 4, 5-12.	1.1	44
61	Role of retinoic acid receptor (RAR) signaling in post-natal male germ cell differentiation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 84-93.	0.9	44
62	A transcriptionally silent RXRÎ± supports early embryonic morphogenesis and heart development. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4272-4277.	3.3	43
63	Specific Distribution of Messenger Ribonucleic Acids for 24-Kilodalton Proteins in the Mouse Epididymis as Revealed by in Situ Hybridization: Developmental Expression and Regulation in the Adult1. Biology of Reproduction, 1991, 44, 13-22.	1.2	41
64	Meiosis occurs normally in the fetal ovary of mice lacking all retinoic acid receptors. Science Advances, 2020, 6, .	4.7	41
65	Analysis of the visual cycle in cellular retinol-binding protein type I (CRBPI) knockout mice. Investigative Ophthalmology and Visual Science, 2002, 43, 1730-5.	3.3	41
66	The retinoic acid receptors RARÎ± and RARÎ³ are required for inner ear development. Mechanisms of Development, 2002, 119, 213-223.	1.7	40
67	Opposing actions of cellular retinol-binding protein and alcohol dehydrogenase control the balance between retinol storage and degradation. Biochemical Journal, 2004, 383, 295-302.	1.7	40
68	Multilayer omics analysis reveals a non-classical retinoic acid signaling axis that regulates hematopoietic stem cell identity. Cell Stem Cell, 2022, 29, 131-148.e10.	5.2	40
69	Immunochemical localization and association with spermatozoa of androgen-regulated proteins of MR 24000 secreted by the mouse epididymis. Biology of the Cell, 1990, 68, 171-174.	0.7	37
70	Constitutive WNT/CTNNB1 activation triggers spermatogonial stem cell proliferation and germ cell depletion. Developmental Biology, 2017, 426, 17-27.	0.9	37
71	Contribution of cellular retinol-binding protein type 1 to retinol metabolism during mouse development. Developmental Dynamics, 2005, 233, 167-176.	0.8	36
72	Regulation of the epididymal glutathione peroxidase-like protein in the mouse: Dependence upon androgens and testicular factors. Molecular and Cellular Endocrinology, 1992, 89, 67-77.	1.6	34

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73	Retinoic Acid Drives Aryl Hydrocarbon Receptor Expression and Is Instrumental to Dioxin-Induced Toxicity during Palate Development. Environmental Health Perspectives, 2011, 119, 1590-1595.	2.8	33
74	Adopting the good reFLEXes when generating conditional alterations in the mouse genome. Transgenic Research, 2007, 16, 405-413.	1.3	32
75	Retinoic acid signaling is dispensable for somatic development and function in the mammalian ovary. Developmental Biology, 2017, 424, 208-220.	0.9	32
76	Retinoic acid improves nephrotoxic serumâ€“induced glomerulonephritis through activation of podocyte retinoic acid receptor Î±. Kidney International, 2017, 92, 1444-1457.	2.6	32
77	Origin, specification and differentiation of a rare supporting-like lineage in the developing mouse gonad. Science Advances, 2022, 8, .	4.7	32
78	Genomic structure and chromosomal mapping of the gene coding for ICBP90, a protein involved in the regulation of the topoisomerase IIÎ± gene expression. Gene, 2001, 266, 15-23.	1.0	31
79	Somatic Ablation of theLratGene in the Mouse Retinal Pigment Epithelium Drastically Reduces Its Retinoid Storage. , 2007, 48, 5377.		31
80	A conditional floxed (loxP-flanked) allele for the retinoic acid receptor beta (RAR?) gene. Genesis, 2002, 32, 91-94.	0.8	30
81	Two functionally redundant sources of retinoic acid secure spermatogonia differentiation in the seminiferous epithelium. Development (Cambridge), 2019, 146, .	1.2	29
82	Retinoic acid synthesis by ALDH1A proteins is dispensable for meiosis initiation in the mouse fetal ovary. Science Advances, 2020, 6, eaaz1261.	4.7	29
83	Targeted Conditional Somatic Mutagenesis in the Mouse: Temporally-Controlled Knock Out of Retinoid Receptors in Epidermal Keratinocytes. Methods in Enzymology, 2003, 364, 377-408.	0.4	28
84	Cloning of the mouse gene encoding plasma glutathione peroxidase: organization, sequence and chromosomal localization. Gene, 1995, 167, 25-31.	1.0	27
85	Endogenous retinoic acid signaling is required for maintenance and regeneration of cornea. Experimental Eye Research, 2017, 154, 190-195.	1.2	27
86	Retinoids enhance glucocorticoid-induced apoptosis of T cells by facilitating glucocorticoid receptor-mediated transcription. Cell Death and Differentiation, 2011, 18, 783-792.	5.0	26
87	Retinoid status and responsiveness to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in mice lacking retinoid binding protein or retinoid receptor forms. Chemico-Biological Interactions, 2005, 156, 25-39.	1.7	24
88	RAâ€“RAR-Î² counteracts myelin-dependent inhibition of neurite outgrowth via Lingo-1 repression. Journal of Cell Biology, 2011, 193, 1147-1156.	2.3	24
89	Characterization and hormonal regulation of 24 kDa protein synthesis by the adult murine epididymis. Journal of Endocrinology, 1992, 133, 197-NP.	1.2	23
90	Mesectoderm is a major target of retinoic acid action. European Journal of Oral Sciences, 1998, 106, 24-31.	0.7	23

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91	Interdigital apoptosis and downregulation of BAG-1 expression in mouse autopods. Mechanisms of Development, 2002, 111, 149-152.	1.7	23
92	Local retinoic acid signaling directs emergence of the extraocular muscle functional unit. PLoS Biology, 2020, 18, e3000902.	2.6	21
93	Spatio-temporal distribution of cellular retinoid binding protein gene transcripts in the developing and the adult cochlea. Morphological and functional consequences in CRABP- and CRBPI-null mutant mice. European Journal of Neuroscience, 2000, 12, 2793-2804.	1.2	20
94	Retinoic acid signaling is directly activated in cardiomyocytes and protects mouse hearts from apoptosis after myocardial infarction. ELife, 2021, 10, .	2.8	14
95	Retinoic Acid Receptor (RAR)-Î± Is Not Critically Required for Mediating Retinoic Acid Effects in the Developing Mouse Retina. , 2010, 51, 3281.		11
96	Retinoic acid receptor Î± as a novel contributor to adrenal cortex structure and function through interactions with Wnt and Vegfa signalling. Scientific Reports, 2019, 9, 14677.	1.6	10
97	Pathogenesis of Anorectal Malformations in Retinoic Acid Receptor Knockout Mice Studied by HREM. Biomedicines, 2021, 9, 742.	1.4	5
98	Animal Models for Retinoid Receptor Research: Implications for Epidermal Homeostasis, Skin Barrier Function, Wound Healing, and Atopic Dermatitis. Basic and Clinical Dermatology, 2007, , 27-54.	0.1	2
99	Retinoic Acid Receptor Alpha Is Essential in Postnatal Sertoli Cells but Not in Germ Cells. Cells, 2022, 11, 891.	1.8	1
100	The mouse plasma glutathione peroxidase-encoding gene: Organization, tissue-distribution and chromosomal localization. Biology of the Cell, 1995, 84, 91-91.	0.7	0
101	CO-34: Retinoic acid receptor signaling contributes to adrenal morphology and functional zonation. Annales De Cardiologie Et D'Angeiologie, 2015, 64, S16.	0.3	0
102	Genetic disruption of aurora B uncovers an essential role for aurora C during early mammalian development. Journal of Cell Science, 2011, 124, e1-e1.	1.2	0
103	Why serology just is not enough: Strategic parvovirus risk assessment using a novel qPCR assay. Laboratory Animals, 2022, , 002367722110628.	0.5	0
104	Local retinoic acid signaling directs emergence of the extraocular muscle functional unit. , 2020, 18, e3000902.		0
105	Local retinoic acid signaling directs emergence of the extraocular muscle functional unit. , 2020, 18, e3000902.		0
106	Local retinoic acid signaling directs emergence of the extraocular muscle functional unit. , 2020, 18, e3000902.		0
107	Local retinoic acid signaling directs emergence of the extraocular muscle functional unit. , 2020, 18, e3000902.		0
108	Local retinoic acid signaling directs emergence of the extraocular muscle functional unit. , 2020, 18, e3000902.		0

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109	Local retinoic acid signaling directs emergence of the extraocular muscle functional unit. , 2020, 18, e3000902.		0