

Ralf KÃ¼hn

List of Publications by Year in descending order

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Version: 2024-02-01

138
papers

24,361
citations

29994

54
h-index

12558

132
g-index

149
all docs

149
docs citations

149
times ranked

28755
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome engineering in rodents – status quo and perspectives. <i>Laboratory Animals</i> , 2022, 56, 83-87.	0.5	2
2	Generation of a NES-mScarlet Red Fluorescent Reporter Human iPSC Line for Live Cell Imaging and Flow Cytometric Analysis and Sorting Using CRISPR-Cas9-Mediated Gene Editing. <i>Cells</i> , 2022, 11, 268.	1.8	2
3	Susceptibility to diet-induced obesity at thermoneutral conditions is independent of UCP1. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 322, E85-E100.	1.8	14
4	A deletion containing a CTCF-element in intron 8 of the <i>Bbs7</i> gene is partially responsible for juvenile obesity in the Berlin Fat Mouse. <i>Mammalian Genome</i> , 2022, 33, 465-470.	1.0	4
5	Precise CRISPR-Cas-mediated gene repair with minimal off-target and unintended on-target mutations in human hematopoietic stem cells. <i>Science Advances</i> , 2022, 8, .	4.7	18
6	Mechanical forces couple bone matrix mineralization with inhibition of angiogenesis to limit adolescent bone growth. <i>Nature Communications</i> , 2022, 13, .	5.8	15
7	A RAS-independent biomarker panel predicts response to MEK-inhibitors in colorectal cancer.. <i>Journal of Clinical Oncology</i> , 2022, 40, e15524-e15524.	0.8	0
8	In vivo dissection of a clustered-CTCF domain boundary reveals developmental principles of regulatory insulation. <i>Nature Genetics</i> , 2022, 54, 1026-1036.	9.4	34
9	A RAS-Independent Biomarker Panel to Reliably Predict Response to MEK Inhibition in Colorectal Cancer. <i>Cancers</i> , 2022, 14, 3252.	1.7	1
10	A homology independent sequence replacement strategy in human cells using a CRISPR nuclease. <i>Open Biology</i> , 2021, 11, 200283.	1.5	11
11	Defective metabolic programming impairs early neuronal morphogenesis in neural cultures and an organoid model of Leigh syndrome. <i>Nature Communications</i> , 2021, 12, 1929.	5.8	55
12	A resource of targeted mutant mouse lines for 5,061 genes. <i>Nature Genetics</i> , 2021, 53, 416-419.	9.4	60
13	Base editing repairs an SGCA mutation in human primary muscle stem cells. <i>JCI Insight</i> , 2021, 6, .	2.3	17
14	Microglia sense neuronal activity via GABA in the early postnatal hippocampus. <i>Cell Reports</i> , 2021, 37, 110128.	2.9	30
15	CRISPR-Cas9-Mediated ELANE Mutation Correction in Hematopoietic Stem and Progenitor Cells to Treat Severe Congenital Neutropenia. <i>Molecular Therapy</i> , 2020, 28, 2621-2634.	3.7	28
16	Enhancement of CRISPR-Cas9 induced precise gene editing by targeting histone H2A-K15 ubiquitination. <i>BMC Biotechnology</i> , 2020, 20, 57.	1.7	7
17	Efficient and Precise CRISPR/Cas9-Mediated MECP2 Modifications in Human-Induced Pluripotent Stem Cells. <i>Frontiers in Genetics</i> , 2019, 10, 625.	1.1	23
18	Cell-type-specific profiling of brain mitochondria reveals functional and molecular diversity. <i>Nature Neuroscience</i> , 2019, 22, 1731-1742.	7.1	181

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19	Efficient CRISPR/Cas9-Mediated Gene Knockin in Mouse Hematopoietic Stem and Progenitor Cells. <i>Cell Reports</i> , 2019, 28, 3510-3522.e5.	2.9	19
20	Efficient Gene Editing of Human Induced Pluripotent Stem Cells Using CRISPR/Cas9. <i>Methods in Molecular Biology</i> , 2019, 1961, 137-151.	0.4	14
21	Oscillations of MyoD and Hes1 proteins regulate the maintenance of activated muscle stem cells. <i>Genes and Development</i> , 2019, 33, 524-535.	2.7	60
22	The Parkinson's disease-linked Leucine-rich repeat kinase 2 (LRRK2) is required for insulin-stimulated translocation of GLUT4. <i>Scientific Reports</i> , 2019, 9, 4515.	1.6	22
23	Enhancement of Precise Gene Editing by the Association of Cas9 With Homologous Recombination Factors. <i>Frontiers in Genetics</i> , 2019, 10, 365.	1.1	56
24	Chronic CD30 signaling in B cells results in lymphomagenesis by driving the expansion of plasmablasts and B1 cells. <i>Blood</i> , 2019, 133, 2597-2609.	0.6	14
25	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. <i>Nature Communications</i> , 2018, 9, 288.	5.8	59
26	Regulation of the Natriuretic Peptide Receptor 2 (Npr2) by Phosphorylation of Juxtamembrane Serine and Threonine Residues Is Essential for Bifurcation of Sensory Axons. <i>Journal of Neuroscience</i> , 2018, 38, 9768-9780.	1.7	14
27	Mutations in Disordered Regions Can Cause Disease by Creating Dileucine Motifs. <i>Cell</i> , 2018, 175, 239-253.e17.	13.5	97
28	Gene editing in mouse zygotes using the CRISPR/Cas9 system. <i>Methods</i> , 2017, 121-122, 55-67.	1.9	49
29	Fusion of SpCas9 to E. coli Rec A protein enhances CRISPR-Cas9 mediated gene knockout in mammalian cells. <i>Journal of Biotechnology</i> , 2017, 247, 42-49.	1.9	21
30	Gene editing and clonal isolation of human induced pluripotent stem cells using CRISPR/Cas9. <i>Methods</i> , 2017, 121-122, 29-44.	1.9	42
31	Elevated glutaric acid levels in Dhtkd1-/Gcdh- double knockout mice challenge our current understanding of lysine metabolism. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2220-2228.	1.8	39
32	Control of gene editing by manipulation of DNA repair mechanisms. <i>Mammalian Genome</i> , 2017, 28, 262-274.	1.0	57
33	A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. <i>Nature Communications</i> , 2017, 8, 886.	5.8	116
34	Loss of a mammalian circular RNA locus causes miRNA deregulation and affects brain function. <i>Science</i> , 2017, 357, .	6.0	978
35	Enhanced precision and efficiency. <i>Nature Biomedical Engineering</i> , 2017, 1, 856-857.	11.6	1
36	Efficient CRISPR-mediated mutagenesis in primary immune cells using CrispRGold and a C57BL/6 Cas9 transgenic mouse line. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12514-12519.	3.3	110

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37	Caspase-mediated apoptosis induction in zebrafish cerebellar Purkinje neurons. <i>Development</i> (Cambridge), 2016, 143, 4279-4287.	1.2	14
38	Genome wide conditional mouse knockout resources. <i>Drug Discovery Today: Disease Models</i> , 2016, 20, 3-12.	1.2	3
39	Efficient generation of Rosa26 knock-in mice using CRISPR/Cas9 in C57BL/6 zygotes. <i>BMC Biotechnology</i> , 2016, 16, 4.	1.7	222
40	Genome Editing in Mice Using TALE Nucleases. <i>Methods in Molecular Biology</i> , 2016, 1338, 229-243.	0.4	2
41	High Efficiency Gene Correction in Hematopoietic Cells By Template-Free Crispr/Cas9 Genome Editing. <i>Blood</i> , 2016, 128, 3507-3507.	0.6	1
42	Pop in, pop out: a novel gene-targeting strategy for use with CRISPR-Cas9. <i>Genome Biology</i> , 2015, 16, 244.	3.8	7
43	Development of an intein-mediated split Cas9 system for gene therapy. <i>Nucleic Acids Research</i> , 2015, 43, 6450-6458.	6.5	278
44	Increasing the efficiency of homology-directed repair for CRISPR-Cas9-induced precise gene editing in mammalian cells. <i>Nature Biotechnology</i> , 2015, 33, 543-548.	9.4	1,024
45	Creation of targeted genomic deletions using TALEN or CRISPR/Cas nuclease pairs in one-cell mouse embryos. <i>FEBS Open Bio</i> , 2015, 5, 26-35.	1.0	37
46	FGF/FGFR2 Signaling Regulates the Generation and Correct Positioning of Bergmann Glia Cells in the Developing Mouse Cerebellum. <i>PLoS ONE</i> , 2014, 9, e101124.	1.1	18
47	Simple Derivation of Transgene-Free iPS Cells by a Dual Recombinase Approach. <i>Molecular Biotechnology</i> , 2014, 56, 697-713.	1.3	2
48	Editing and investigating genomes with TALE and CRISPR/Cas systems: Genome engineering across species using TALENs. <i>Methods</i> , 2014, 69, 1.	1.9	3
49	Generation of targeted mouse mutants by embryo microinjection of TALENs. <i>Methods</i> , 2014, 69, 94-101.	1.9	17
50	Generation of targeted mouse mutants by embryo microinjection of TALEN mRNA. <i>Nature Protocols</i> , 2013, 8, 2355-2379.	5.5	57
51	Direct production of mouse disease models by embryo microinjection of TALENs and oligodeoxynucleotides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3782-3787.	3.3	140
52	Target Validation in Mice by Constitutive and Conditional RNAi. <i>Methods in Molecular Biology</i> , 2013, 986, 307-323.	0.4	4
53	Characterization of the melanocortin-4-receptor nonsense mutation W16X in vitro and in vivo. <i>Pharmacogenomics Journal</i> , 2013, 13, 80-93.	0.9	12
54	Reversible and tissue-specific activation of MAP kinase signaling by tamoxifen in braf ^{V637E} mice. <i>Genesis</i> , 2013, 51, 448-455.	0.8	7

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55	Highly Efficient Targeted Mutagenesis in Mice Using TALENs. <i>Genetics</i> , 2013, 195, 703-713.	1.2	62
56	An RNAi-Based Approach to Down-Regulate a Gene Family In Vivo. <i>PLoS ONE</i> , 2013, 8, e80312.	1.1	2
57	Efficient Generation of Rat Induced Pluripotent Stem Cells Using a Non-Viral Inducible Vector. <i>PLoS ONE</i> , 2013, 8, e55170.	1.1	23
58	Modeling disease mutations by gene targeting in one-cell mouse embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9354-9359.	3.3	59
59	N-desalkylquetiapine activates ERK1/2 to induce GDNF release in C6 glioma cells: A putative cellular mechanism for quetiapine as antidepressant. <i>Neuropharmacology</i> , 2012, 62, 209-216.	2.0	39
60	In Vivo Functional Requirement of the Mouse <i>Irfm1</i> Gene for Germ Cell Development, Interferon Mediated Immune Response and Somitogenesis. <i>PLoS ONE</i> , 2012, 7, e44609.	1.1	11
61	<i>Pink1</i> -deficiency in mice impairs gait, olfaction and serotonergic innervation of the olfactory bulb. <i>Experimental Neurology</i> , 2012, 235, 214-227.	2.0	64
62	Gene Editing in One-Cell Embryos by Zinc-Finger and TAL Nucleases. <i>Current Protocols in Mouse Biology</i> , 2012, 2, 347-364.	1.2	2
63	MAPK Signaling Determines Anxiety in the Juvenile Mouse Brain but Depression-Like Behavior in Adults. <i>PLoS ONE</i> , 2012, 7, e35035.	1.1	41
64	Humanized c-Myc Mouse. <i>PLoS ONE</i> , 2012, 7, e42021.	1.1	4
65	Genetisch verÄnderte Tiere. , 2012, , 149-167.		0
66	Design and Generation of Gene-Targeting Vectors. <i>Current Protocols in Mouse Biology</i> , 2011, 1, 199-211.	1.2	6
67	Conditional RNAi in mice. <i>Methods</i> , 2011, 53, 142-150.	1.9	20
68	Constitutive and conditional RNAi transgenesis in mice. <i>Methods</i> , 2011, 53, 430-436.	1.9	10
69	CD19-independent instruction of murine marginal zone B-cell development by constitutive <i>Notch2</i> signaling. <i>Blood</i> , 2011, 118, 6321-6331.	0.6	69
70	Genetic Models of Parkinson's Disease. <i>Neuromethods</i> , 2011, , 243-265.	0.2	1
71	Generating Conditional Knockout Mice. <i>Methods in Molecular Biology</i> , 2011, 693, 205-231.	0.4	64
72	Gene targeting by homologous recombination in mouse zygotes mediated by zinc-finger nucleases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15022-15026.	3.3	258

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73	Phenotypic annotation of the mouse X chromosome. <i>Genome Research</i> , 2010, 20, 1154-1164.	2.4	75
74	Gene Knockdown in the Mouse Through RNAi. <i>Methods in Enzymology</i> , 2010, 477, 387-414.	0.4	13
75	Local Knockdown of ERK2 in the Adult Mouse Brain Via Adeno-Associated Virus-Mediated RNA Interference. <i>Molecular Biotechnology</i> , 2009, 41, 263-269.	1.3	5
76	Generation of shRNA Transgenic Mice. <i>Methods in Molecular Biology</i> , 2009, 530, 101-129.	0.4	28
77	The Functional Annotation of Mammalian Genomes: The Challenge of Phenotyping. <i>Annual Review of Genetics</i> , 2009, 43, 305-333.	3.2	60
78	Overview on Mouse Mutagenesis. <i>Methods in Molecular Biology</i> , 2009, 530, 1-12.	0.4	19
79	Simultaneous Cre-mediated conditional knockdown of two genes in mice. <i>Genesis</i> , 2008, 46, 144-151.	0.8	32
80	Sall4 isoforms act during proximal-distal and anterior-posterior axis formation in the mouse embryo. <i>Genesis</i> , 2008, 46, 463-477.	0.8	24
81	Novel caspase-suicide proteins for tamoxifen-inducible apoptosis. <i>Genesis</i> , 2008, 46, 530-536.	0.8	18
82	Genetic mouse models for behavioral analysis through transgenic RNAi technology. <i>Genes, Brain and Behavior</i> , 2008, 7, 821-830.	1.1	23
83	Conditional brain-specific knockdown of MAPK using Cre/loxP regulated RNA interference. <i>Nucleic Acids Research</i> , 2007, 35, e90-e90.	6.5	92
84	Differential mRNA distribution of components of the ERK/MAPK signalling cascade in the adult mouse brain. <i>Journal of Comparative Neurology</i> , 2007, 500, 542-556.	0.9	40
85	Inducible gene deletion in astroglia and radial glia-A valuable tool for functional and lineage analysis. <i>Glia</i> , 2006, 54, 21-34.	2.5	356
86	Forebrain-specific knockout of B-raf kinase leads to deficits in hippocampal long-term potentiation, learning, and memory. <i>Journal of Neuroscience Research</i> , 2006, 83, 28-38.	1.3	67
87	Development of a species-specific RNA polymerase I-based shRNA expression vector. <i>Nucleic Acids Research</i> , 2006, 35, e10-e10.	6.5	12
88	Mouse mutagenesis and gene function. , 2005, , .		2
89	Single copy shRNA configuration for ubiquitous gene knockdown in mice. <i>Nucleic Acids Research</i> , 2005, 33, e67-e67.	6.5	101
90	Conditional Knockout Mice. , 2003, 209, 159-186.		14

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91	Neuron-Specific Ablation of PDGF-B Is Compatible with Normal Central Nervous System Development and Astroglial Response to Injury. <i>Neurochemical Research</i> , 2003, 28, 271-279.	1.6	34
92	Connexin43 is not expressed in principal cells of mouse cortex and hippocampus. <i>European Journal of Neuroscience</i> , 2003, 18, 267-274.	1.2	38
93	Limbic corticotropin-releasing hormone receptor 1 mediates anxiety-related behavior and hormonal adaptation to stress. <i>Nature Neuroscience</i> , 2003, 6, 1100-1107.	7.1	418
94	Hybrid Embryonic Stem Cell-Derived Tetraploid Mice Show Apparently Normal Morphological, Physiological, and Neurological Characteristics. <i>Molecular and Cellular Biology</i> , 2003, 23, 3982-3989.	1.1	30
95	Rapid generation of inducible mouse mutants. <i>Nucleic Acids Research</i> , 2003, 31, 12e-12.	6.5	276
96	Enhanced efficiency through nuclear localization signal fusion on phage phiC31-integrase: activity comparison with Cre and FLPe recombinase in mammalian cells. <i>Nucleic Acids Research</i> , 2002, 30, 2299-2306.	6.5	101
97	Cre/ loxP Recombination System and Gene Targeting. , 2002, 180, 175-204.		149
98	Male and female mice derived from the same embryonic stem cell clone by tetraploid embryo complementation. <i>Nature Biotechnology</i> , 2002, 20, 455-459.	9.4	137
99	BACE knockout mice are healthy despite lacking the primary beta-secretase activity in brain: implications for Alzheimer's disease therapeutics. <i>Human Molecular Genetics</i> , 2001, 10, 1317-1324.	1.4	644
100	DNA Hypomethylation Perturbs the Function and Survival of CNS Neurons in Postnatal Animals. <i>Journal of Neuroscience</i> , 2001, 21, 788-797.	1.7	344
101	Actin pedestal formation by enteropathogenic <i>Escherichia coli</i> and intracellular motility of <i>Shigella flexneri</i> are abolished in Δ WASP defective cells. <i>EMBO Reports</i> , 2001, 2, 850-857.	2.0	241
102	Essential Role for TrkB Receptors in Hippocampus-Mediated Learning. <i>Neuron</i> , 1999, 24, 401-414.	3.8	731
103	Csk controls antigen receptor-mediated development and selection of T-lineage cells. <i>Nature</i> , 1998, 394, 901-904.	13.7	138
104	Temporally and spatially regulated somatic mutagenesis in mice. <i>Nucleic Acids Research</i> , 1998, 26, 1427-1432.	6.5	173
105	Introduction. <i>Research in Immunology</i> , 1997, 148, 447-449.	0.9	0
106	In Vivo Ablation of Surface Immunoglobulin on Mature B Cells by Inducible Gene Targeting Results in Rapid Cell Death. <i>Cell</i> , 1997, 90, 1073-1083.	13.5	1,017
107	Generation of Cre recombinase-specific monoclonal antibodies, able to characterize the pattern of Cre expression in cre-transgenic mouse strains. <i>Journal of Immunological Methods</i> , 1997, 207, 203-212.	0.6	28
108	Advances in gene targeting methods. <i>Current Opinion in Immunology</i> , 1997, 9, 183-188.	2.4	41

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109	Enterocolitis and colon cancer in interleukin-10-deficient mice are associated with aberrant cytokine production and CD4(+) TH1-like responses.. Journal of Clinical Investigation, 1996, 98, 1010-1020.	3.9	1,023
110	Plasmodium chabaudi chabaudi:Differential Susceptibility of Gene-Targeted Mice Deficient in IL-10 to an Erythrocytic-Stage Infection. Experimental Parasitology, 1996, 84, 253-263.	0.5	94
111	Somatic hypermutation occurs in B cells of terminal deoxynucleotidyl transferase-, CD23-, interleukin-4-, IgD- and CD30-deficient mouse mutants. European Journal of Immunology, 1996, 26, 1966-1969.	1.6	16
112	Requirement of mammalian DNA polymerase- β in base-excision repair. Nature, 1996, 379, 183-186.	13.7	827
113	Requirement of mammalian DNA polymerase- β in base-excision repair. Nature, 1996, 379, 848-848.	13.7	5
114	Impaired Immunosuppressive Response to Ultraviolet Radiation in Interleukin-10-Deficient Mice. Journal of Investigative Dermatology, 1996, 107, 553-557.	0.3	84
115	Interleukin (IL)-4-independent immunoglobulin class switch to immunoglobulin (Ig)E in the mouse.. Journal of Experimental Medicine, 1996, 184, 1651-1661.	4.2	81
116	T helper cell 1-type CD4+ T cells, but not B cells, mediate colitis in interleukin 10-deficient mice.. Journal of Experimental Medicine, 1996, 184, 241-251.	4.2	372
117	Leishmania promastigotes selectively inhibit interleukin 12 induction in bone marrow-derived macrophages from susceptible and resistant mice.. Journal of Experimental Medicine, 1996, 183, 515-526.	4.2	318
118	Conditional gene targeting.. Journal of Clinical Investigation, 1996, 98, 600-603.	3.9	406
119	Common Cytokine Receptor gamma chain (gammac)-Dependent Cytokines: Understanding in vivo Functions by Gene Targeting. Immunological Reviews, 1995, 148, 19-34.	2.8	75
120	Interleukin 10 but not interleukin 4 is a natural suppressant of cutaneous inflammatory responses.. Journal of Experimental Medicine, 1995, 182, 99-108.	4.2	235
121	Inducible gene targeting in mice. Science, 1995, 269, 1427-1429.	6.0	1,732
122	Interleukin-10 Deficient Mice. Molecular Biology Intelligence Unit, 1995, , 141-148.	0.2	1
123	Antiviral immune responses in mice deficient for both interleukin-2 and interleukin-4. Journal of Virology, 1995, 69, 4842-4846.	1.5	58
124	Interleukin-10 is a central regulator of the response to LPS in murine models of endotoxic shock and the Shwartzman reaction but not endotoxin tolerance.. Journal of Clinical Investigation, 1995, 96, 2339-2347.	3.9	495
125	Resistance to murine acquired immunodeficiency syndrome (MAIDS). Science, 1994, 265, 264-264.	6.0	18
126	Induction of interleukin 4 (IL-4) expression in T helper (Th) cells is not dependent on IL-4 from non-Th cells.. Journal of Experimental Medicine, 1994, 179, 1349-1353.	4.2	153

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127	Development and proliferation of lymphocytes in mice deficient for both interleukins-2 and -4. European Journal of Immunology, 1994, 24, 281-284.	1.6	141
128	MHC class I expression in mice lacking the proteasome subunit LMP-7. Science, 1994, 265, 1234-1237.	6.0	496
129	Leishmania major and Toxoplasma gondii have opposite effects on cytokine synthesis by macrophages. Memorias Do Instituto Oswaldo Cruz, 1994, 89, 649-650.	0.8	2
130	IL-9 production of naive CD4+ T cells depends on IL-2, is synergistically enhanced by a combination of TGF-beta and IL-4, and is inhibited by IFN-gamma. Journal of Immunology, 1994, 153, 3989-96.	0.4	209
131	Interleukin-4 transgenic mice of resistant background are susceptible to Leishmania major infection. European Journal of Immunology, 1993, 23, 566-569.	1.6	89
132	Interleukin-10-deficient mice develop chronic enterocolitis. Cell, 1993, 75, 263-274.	13.5	4,004
133	Interleukin-4-deficient mice. Research in Immunology, 1993, 144, 637-638.	0.9	9
134	Knock out Mice Models for Immunodeficiency Diseases. , 1993, , 561-570.		0
135	A B cell-deficient mouse by targeted disruption of the membrane exon of the immunoglobulin μ chain gene. Nature, 1991, 350, 423-426.	13.7	1,741
136	Major histocompatibility complex class II hyperexpression on B cells in interleukin 4-transgenic mice does not lead to B cell proliferation and hypergammaglobulinemia. European Journal of Immunology, 1991, 21, 921-925.	1.6	38
137	Generation and analysis of interleukin-4 deficient mice. Science, 1991, 254, 707-710.	6.0	1,222
138	Signal requirements for growth and differentiation of activated murine B lymphocytes. Journal of Immunology, 1985, 135, 1213-9.	0.4	18