

# Ralf KÃ¼hn

## List of Publications by Year in descending order

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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	Interleukin-10-deficient mice develop chronic enterocolitis. <i>Cell</i> , 1993, 75, 263-274.	13.5	4,004
2	A B cell-deficient mouse by targeted disruption of the membrane exon of the immunoglobulin $\mu$ chain gene. <i>Nature</i> , 1991, 350, 423-426.	13.7	1,741
3	Inducible gene targeting in mice. <i>Science</i> , 1995, 269, 1427-1429.	6.0	1,732
4	Generation and analysis of interleukin-4 deficient mice. <i>Science</i> , 1991, 254, 707-710.	6.0	1,222
5	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
6	Enterocolitis and colon cancer in interleukin-10-deficient mice are associated with aberrant cytokine production and CD4(+) TH1-like responses.. <i>Journal of Clinical Investigation</i> , 1996, 98, 1010-1020.	3.9	1,023
7	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
8	Loss of a mammalian circular RNA locus causes miRNA deregulation and affects brain function. <i>Science</i> , 2017, 357, .	6.0	978
9	Requirement of mammalian DNA polymerase- $\delta$ in base-excision repair. <i>Nature</i> , 1996, 379, 183-186.	13.7	827
10	Essential Role for TrkB Receptors in Hippocampus-Mediated Learning. <i>Neuron</i> , 1999, 24, 401-414.	3.8	731
11	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
12	MHC class I expression in mice lacking the proteasome subunit LMP-7. <i>Science</i> , 1994, 265, 1234-1237.	6.0	496
13	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.. <i>Journal of Clinical Investigation</i> , 1995, 96, 2339-2347.	3.9	495
14	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
15	Conditional gene targeting.. <i>Journal of Clinical Investigation</i> , 1996, 98, 600-603.	3.9	406
16	T helper cell 1-type CD4+ T cells, but not B cells, mediate colitis in interleukin 10-deficient mice.. <i>Journal of Experimental Medicine</i> , 1996, 184, 241-251.	4.2	372
17	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
18	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

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19	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
20	Development of an intein-mediated split Cas9 system for gene therapy. Nucleic Acids Research, 2015, 43, 6450-6458.	6.5	278
21	Rapid generation of inducible mouse mutants. Nucleic Acids Research, 2003, 31, 12e-12.	6.5	276
22	Gene targeting by homologous recombination in mouse zygotes mediated by zinc-finger nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15022-15026.	3.3	258
23	Actin pedestal formation by enteropathogenic Escherichia coli and intracellular motility of Shigella flexneri are abolished in WASP-defective cells. EMBO Reports, 2001, 2, 850-857.	2.0	241
24	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
25	Efficient generation of Rosa26 knock-in mice using CRISPR/Cas9 in C57BL/6 zygotes. BMC Biotechnology, 2016, 16, 4.	1.7	222
26	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
27	Cell-type-specific profiling of brain mitochondria reveals functional and molecular diversity. Nature Neuroscience, 2019, 22, 1731-1742.	7.1	181
28	Temporally and spatially regulated somatic mutagenesis in mice. Nucleic Acids Research, 1998, 26, 1427-1432.	6.5	173
29	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
30	Cre/ loxP Recombination System and Gene Targeting. , 2002, 180, 175-204.		149
31	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
32	Direct production of mouse disease models by embryo microinjection of TALENs and oligodeoxynucleotides. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3782-3787.	3.3	140
33	Csk controls antigen receptor-mediated development and selection of T-lineage cells. Nature, 1998, 394, 901-904.	13.7	138
34	Male and female mice derived from the same embryonic stem cell clone by tetraploid embryo complementation. Nature Biotechnology, 2002, 20, 455-459.	9.4	137
35	A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. Nature Communications, 2017, 8, 886.	5.8	116
36	Efficient CRISPR-mediated mutagenesis in primary immune cells using CrispRGold and a C57BL/6 Cas9 transgenic mouse line. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12514-12519.	3.3	110

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37	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
38	Single copy shRNA configuration for ubiquitous gene knockdown in mice. <i>Nucleic Acids Research</i> , 2005, 33, e67-e67.	6.5	101
39	Mutations in Disordered Regions Can Cause Disease by Creating Dileucine Motifs. <i>Cell</i> , 2018, 175, 239-253.e17.	13.5	97
40	<i>Plasmodium chabaudi chabaudi</i> : Differential Susceptibility of Gene-Targeted Mice Deficient in IL-10 to an Erythrocytic-Stage Infection. <i>Experimental Parasitology</i> , 1996, 84, 253-263.	0.5	94
41	Conditional brain-specific knockdown of MAPK using Cre/loxP regulated RNA interference. <i>Nucleic Acids Research</i> , 2007, 35, e90-e90.	6.5	92
42	Interleukin-4 transgenic mice of resistant background are susceptible to <i>Leishmania major</i> infection. <i>European Journal of Immunology</i> , 1993, 23, 566-569.	1.6	89
43	Impaired Immunosuppressive Response to Ultraviolet Radiation in Interleukin-10 Deficient Mice. <i>Journal of Investigative Dermatology</i> , 1996, 107, 553-557.	0.3	84
44	Interleukin (IL)-4-independent immunoglobulin class switch to immunoglobulin (Ig)E in the mouse. <i>Journal of Experimental Medicine</i> , 1996, 184, 1651-1661.	4.2	81
45	Common Cytokine Receptor gamma chain (gamma <sub>c</sub> )-Dependent Cytokines: Understanding in vivo Functions by Gene Targeting. <i>Immunological Reviews</i> , 1995, 148, 19-34.	2.8	75
46	Phenotypic annotation of the mouse X chromosome. <i>Genome Research</i> , 2010, 20, 1154-1164.	2.4	75
47	CD19-independent instruction of murine marginal zone B-cell development by constitutive Notch2 signaling. <i>Blood</i> , 2011, 118, 6321-6331.	0.6	69
48	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
49	Generating Conditional Knockout Mice. <i>Methods in Molecular Biology</i> , 2011, 693, 205-231.	0.4	64
50	Pink1-deficiency in mice impairs gait, olfaction and serotonergic innervation of the olfactory bulb. <i>Experimental Neurology</i> , 2012, 235, 214-227.	2.0	64
51	Highly Efficient Targeted Mutagenesis in Mice Using TALENs. <i>Genetics</i> , 2013, 195, 703-713.	1.2	62
52	The Functional Annotation of Mammalian Genomes: The Challenge of Phenotyping. <i>Annual Review of Genetics</i> , 2009, 43, 305-333.	3.2	60
53	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
54	A resource of targeted mutant mouse lines for 5,061 genes. <i>Nature Genetics</i> , 2021, 53, 416-419.	9.4	60

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55	Modeling disease mutations by gene targeting in one-cell mouse embryos. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9354-9359.	3.3	59
56	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. Nature Communications, 2018, 9, 288.	5.8	59
57	Antiviral immune responses in mice deficient for both interleukin-2 and interleukin-4. Journal of Virology, 1995, 69, 4842-4846.	1.5	58
58	Generation of targeted mouse mutants by embryo microinjection of TALEN mRNA. Nature Protocols, 2013, 8, 2355-2379.	5.5	57
59	Control of gene editing by manipulation of DNA repair mechanisms. Mammalian Genome, 2017, 28, 262-274.	1.0	57
60	Enhancement of Precise Gene Editing by the Association of Cas9 With Homologous Recombination Factors. Frontiers in Genetics, 2019, 10, 365.	1.1	56
61	Defective metabolic programming impairs early neuronal morphogenesis in neural cultures and an organoid model of Leigh syndrome. Nature Communications, 2021, 12, 1929.	5.8	55
62	Gene editing in mouse zygotes using the CRISPR/Cas9 system. Methods, 2017, 121-122, 55-67.	1.9	49
63	Gene editing and clonal isolation of human induced pluripotent stem cells using CRISPR/Cas9. Methods, 2017, 121-122, 29-44.	1.9	42
64	Advances in gene targeting methods. Current Opinion in Immunology, 1997, 9, 183-188.	2.4	41
65	MAPK Signaling Determines Anxiety in the Juvenile Mouse Brain but Depression-Like Behavior in Adults. PLoS ONE, 2012, 7, e35035.	1.1	41
66	Differential mRNA distribution of components of the ERK/MAPK signalling cascade in the adult mouse brain. Journal of Comparative Neurology, 2007, 500, 542-556.	0.9	40
67	N-desalkylquetiapine activates ERK1/2 to induce GDNF release in C6 glioma cells: A putative cellular mechanism for quetiapine as antidepressant. Neuropharmacology, 2012, 62, 209-216.	2.0	39
68	Elevated glutaric acid levels in Dhtkd1-/Gcdh- double knockout mice challenge our current understanding of lysine metabolism. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2220-2228.	1.8	39
69	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
70	Connexin43 is not expressed in principal cells of mouse cortex and hippocampus. European Journal of Neuroscience, 2003, 18, 267-274.	1.2	38
71	Creation of targeted genomic deletions using TALEN or CRISPR/Cas nuclease pairs in one-cell mouse embryos. FEBS Open Bio, 2015, 5, 26-35.	1.0	37
72	Neuron-Specific Ablation of PDGF-B Is Compatible with Normal Central Nervous System Development and Astroglial Response to Injury. Neurochemical Research, 2003, 28, 271-279.	1.6	34

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73	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
74	Simultaneous Cre-mediated conditional knockdown of two genes in mice. <i>Genesis</i> , 2008, 46, 144-151.	0.8	32
75	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
76	Microglia sense neuronal activity via GABA in the early postnatal hippocampus. <i>Cell Reports</i> , 2021, 37, 110128.	2.9	30
77	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
78	Generation of shRNA Transgenic Mice. <i>Methods in Molecular Biology</i> , 2009, 530, 101-129.	0.4	28
79	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
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	Genetic mouse models for behavioral analysis through transgenic RNAi technology. <i>Genes, Brain and Behavior</i> , 2008, 7, 821-830.	1.1	23
82	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
83	Efficient Generation of Rat Induced Pluripotent Stem Cells Using a Non-Viral Inducible Vector. <i>PLoS ONE</i> , 2013, 8, e55170.	1.1	23
84	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
85	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
86	Conditional RNAi in mice. <i>Methods</i> , 2011, 53, 142-150.	1.9	20
87	Overview on Mouse Mutagenesis. <i>Methods in Molecular Biology</i> , 2009, 530, 1-12.	0.4	19
88	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
89	Resistance to murine acquired immunodeficiency syndrome (MAIDS). <i>Science</i> , 1994, 265, 264-264.	6.0	18
90	Novel caspase-suicide proteins for tamoxifen-inducible apoptosis. <i>Genesis</i> , 2008, 46, 530-536.	0.8	18

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91	FGF/FGFR2 Signaling Regulates the Generation and Correct Positioning of Bergmann Glia Cells in the Developing Mouse Cerebellum. PLoS ONE, 2014, 9, e101124.	1.1	18
92	Signal requirements for growth and differentiation of activated murine B lymphocytes. Journal of Immunology, 1985, 135, 1213-9.	0.4	18
93	Precise CRISPR-Cas9-mediated gene repair with minimal off-target and unintended on-target mutations in human hematopoietic stem cells. Science Advances, 2022, 8, .	4.7	18
94	Generation of targeted mouse mutants by embryo microinjection of TALENs. Methods, 2014, 69, 94-101.	1.9	17
95	Base editing repairs an SGCA mutation in human primary muscle stem cells. JCI Insight, 2021, 6, .	2.3	17
96	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
97	Mechanical forces couple bone matrix mineralization with inhibition of angiogenesis to limit adolescent bone growth. Nature Communications, 2022, 13, .	5.8	15
98	Conditional Knockout Mice. , 2003, 209, 159-186.		14
99	Caspase-mediated apoptosis induction in zebrafish cerebellar Purkinje neurons. Development (Cambridge), 2016, 143, 4279-4287.	1.2	14
100	Regulation of the Natriuretic Peptide Receptor 2 (Npr2) by Phosphorylation of Juxtamembrane Serine and Threonine Residues Is Essential for Bifurcation of Sensory Axons. Journal of Neuroscience, 2018, 38, 9768-9780.	1.7	14
101	Efficient Gene Editing of Human Induced Pluripotent Stem Cells Using CRISPR/Cas9. Methods in Molecular Biology, 2019, 1961, 137-151.	0.4	14
102	Chronic CD30 signaling in B cells results in lymphomagenesis by driving the expansion of plasmablasts and B1 cells. Blood, 2019, 133, 2597-2609.	0.6	14
103	Susceptibility to diet-induced obesity at thermoneutral conditions is independent of UCP1. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E85-E100.	1.8	14
104	Gene Knockdown in the Mouse Through RNAi. Methods in Enzymology, 2010, 477, 387-414.	0.4	13
105	Development of a species-specific RNA polymerase I-based shRNA expression vector. Nucleic Acids Research, 2006, 35, e10-e10.	6.5	12
106	Characterization of the melanocortin-4-receptor nonsense mutation W16X in vitro and in vivo. Pharmacogenomics Journal, 2013, 13, 80-93.	0.9	12
107	In Vivo Functional Requirement of the Mouse Ifitm1 Gene for Germ Cell Development, Interferon Mediated Immune Response and Somitogenesis. PLoS ONE, 2012, 7, e44609.	1.1	11
108	A homology independent sequence replacement strategy in human cells using a CRISPR nuclease. Open Biology, 2021, 11, 200283.	1.5	11

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109	Constitutive and conditional RNAi transgenesis in mice. <i>Methods</i> , 2011, 53, 430-436.	1.9	10
110	Interleukin-4-deficient mice. <i>Research in Immunology</i> , 1993, 144, 637-638.	0.9	9
111	Reversible and tissue-specific activation of MAP kinase signaling by tamoxifen in braf <sup>V637E</sup> ER <sup>T2</sup> mice. <i>Genesis</i> , 2013, 51, 448-455.	0.8	7
112	Pop in, pop out: a novel gene-targeting strategy for use with CRISPR-Cas9. <i>Genome Biology</i> , 2015, 16, 244.	3.8	7
113	Enhancement of CRISPR-Cas9 induced precise gene editing by targeting histone H2A-K15 ubiquitination. <i>BMC Biotechnology</i> , 2020, 20, 57.	1.7	7
114	Design and Generation of Gene-Targeting Vectors. <i>Current Protocols in Mouse Biology</i> , 2011, 1, 199-211.	1.2	6
115	Requirement of mammalian DNA polymerase- $\beta$ in base-excision repair. <i>Nature</i> , 1996, 379, 848-848.	13.7	5
116	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
117	Target Validation in Mice by Constitutive and Conditional RNAi. <i>Methods in Molecular Biology</i> , 2013, 986, 307-323.	0.4	4
118	Humanized c-Myc Mouse. <i>PLoS ONE</i> , 2012, 7, e42021.	1.1	4
119	A deletion containing a CTCF-element in intron 8 of the Bbs7 gene is partially responsible for juvenile obesity in the Berlin Fat Mouse. <i>Mammalian Genome</i> , 2022, 33, 465-470.	1.0	4
120	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
121	Genome wide conditional mouse knockout resources. <i>Drug Discovery Today: Disease Models</i> , 2016, 20, 3-12.	1.2	3
122	Mouse mutagenesis and gene function. , 2005, , .		2
123	An RNAi-Based Approach to Down-Regulate a Gene Family In Vivo. <i>PLoS ONE</i> , 2013, 8, e80312.	1.1	2
124	Simple Derivation of Transgene-Free iPS Cells by a Dual Recombinase Approach. <i>Molecular Biotechnology</i> , 2014, 56, 697-713.	1.3	2
125	Genome Editing in Mice Using TALE Nucleases. <i>Methods in Molecular Biology</i> , 2016, 1338, 229-243.	0.4	2
126	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



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127	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
128	Genome engineering in rodents â€“ status quo and perspectives. Laboratory Animals, 2022, 56, 83-87.	0.5	2
129	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. Cells, 2022, 11, 268.	1.8	2
130	Genetic Models of Parkinsonâ€™s Disease. Neuromethods, 2011, , 243-265.	0.2	1
131	Enhanced precision and efficiency. Nature Biomedical Engineering, 2017, 1, 856-857.	11.6	1
132	Interleukin-10 Deficient Mice. Molecular Biology Intelligence Unit, 1995, , 141-148.	0.2	1
133	High Efficiency Gene Correction in Hematopoietic Cells By Template-Free Crispr/Cas9 Genome Editing. Blood, 2016, 128, 3507-3507.	0.6	1
134	A RAS-Independent Biomarker Panel to Reliably Predict Response to MEK Inhibition in Colorectal Cancer. Cancers, 2022, 14, 3252.	1.7	1
135	Introduction. Research in Immunology, 1997, 148, 447-449.	0.9	0
136	Genetisch verÃ¤nderte Tiere. , 2012, , 149-167.		0
137	Knock out Mice Models for Immunodeficiency Diseases. , 1993, , 561-570.		0
138	A RAS-independent biomarker panel predicts response to MEK-inhibitors in colorectal cancer.. Journal of Clinical Oncology, 2022, 40, e15524-e15524.	0.8	0