

# Ralf Kuhn

## List of Publications by Citations

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133  
papers

20,842  
citations

53  
h-index

144  
g-index

149  
ext. papers

22,733  
ext. citations

11.8  
avg, IF

6.23  
L-index

#	Paper	IF	Citations
133	Interleukin-10-deficient mice develop chronic enterocolitis. <i>Cell</i> , <b>1993</b> , 75, 263-74	56.2	3546
132	Inducible gene targeting in mice. <i>Science</i> , <b>1995</b> , 269, 1427-9	33.3	1586
131	A B cell-deficient mouse by targeted disruption of the membrane exon of the immunoglobulin mu chain gene. <i>Nature</i> , <b>1991</b> , 350, 423-6	50.4	1540
130	Generation and analysis of interleukin-4 deficient mice. <i>Science</i> , <b>1991</b> , 254, 707-10	33.3	1117
129	In vivo ablation of surface immunoglobulin on mature B cells by inducible gene targeting results in rapid cell death. <i>Cell</i> , <b>1997</b> , 90, 1073-83	56.2	946
128	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> , <b>1996</b> , 98, 1010-20	15.9	883
127	Increasing the efficiency of homology-directed repair for CRISPR-Cas9-induced precise gene editing in mammalian cells. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 543-8	44.5	771
126	Requirement of mammalian DNA polymerase-beta in base-excision repair. <i>Nature</i> , <b>1996</b> , 379, 183-6	50.4	751
125	Essential role for TrkB receptors in hippocampus-mediated learning. <i>Neuron</i> , <b>1999</b> , 24, 401-14	13.9	666
124	Loss of a mammalian circular RNA locus causes miRNA deregulation and affects brain function. <i>Science</i> , <b>2017</b> , 357,	33.3	649
123	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> , <b>2001</b> , 10, 1317-24	5.6	571
122	MHC class I expression in mice lacking the proteasome subunit LMP-7. <i>Science</i> , <b>1994</b> , 265, 1234-7	33.3	444
121	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> , <b>1995</b> , 96, 2339-47	15.9	426
120	Limbic corticotropin-releasing hormone receptor 1 mediates anxiety-related behavior and hormonal adaptation to stress. <i>Nature Neuroscience</i> , <b>2003</b> , 6, 1100-7	25.5	381
119	Conditional gene targeting. <i>Journal of Clinical Investigation</i> , <b>1996</b> , 98, 600-3	15.9	346
118	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> , <b>1996</b> , 184, 241-51	16.6	344
117	DNA hypomethylation perturbs the function and survival of CNS neurons in postnatal animals. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 788-97	6.6	311

116	Inducible gene deletion in astroglia and radial glia--a valuable tool for functional and lineage analysis. <i>Glia</i> , <b>2006</b> , 54, 21-34	9	284
115	Leishmania promastigotes selectively inhibit interleukin 12 induction in bone marrow-derived macrophages from susceptible and resistant mice. <i>Journal of Experimental Medicine</i> , <b>1996</b> , 183, 515-26	16.6	265
114	Rapid generation of inducible mouse mutants. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, e12	20.1	243
113	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> , <b>2010</b> , 107, 15022-6	11.5	229
112	Actin pedestal formation by enteropathogenic Escherichia coli and intracellular motility of Shigella flexneri are abolished in N-WASP-defective cells. <i>EMBO Reports</i> , <b>2001</b> , 2, 850-7	6.5	222
111	Interleukin 10 but not interleukin 4 is a natural suppressant of cutaneous inflammatory responses. <i>Journal of Experimental Medicine</i> , <b>1995</b> , 182, 99-108	16.6	216
110	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. <i>Journal of Immunology</i> , <b>1994</b> , 153, 3989-96	5.3	197
109	Development of an intein-mediated split-Cas9 system for gene therapy. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 6450-8	20.1	194
108	Temporally and spatially regulated somatic mutagenesis in mice. <i>Nucleic Acids Research</i> , <b>1998</b> , 26, 1427-32	20.1	157
107	Efficient generation of Rosa26 knock-in mice using CRISPR/Cas9 in C57BL/6 zygotes. <i>BMC Biotechnology</i> , <b>2016</b> , 16, 4	3.5	133
106	Induction of interleukin 4 (IL-4) expression in T helper (Th) cells is not dependent on IL-4 from non-Th cells. <i>Journal of Experimental Medicine</i> , <b>1994</b> , 179, 1349-53	16.6	133
105	Development and proliferation of lymphocytes in mice deficient for both interleukins-2 and -4. <i>European Journal of Immunology</i> , <b>1994</b> , 24, 281-4	6.1	131
104	Cre/loxP recombination system and gene targeting. <i>Methods in Molecular Biology</i> , <b>2002</b> , 180, 175-204	1.4	125
103	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> , <b>2013</b> , 110, 3782-7	11.5	122
102	Csk controls antigen receptor-mediated development and selection of T-lineage cells. <i>Nature</i> , <b>1998</b> , 394, 901-4	50.4	119
101	Male and female mice derived from the same embryonic stem cell clone by tetraploid embryo complementation. <i>Nature Biotechnology</i> , <b>2002</b> , 20, 455-9	44.5	110
100	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> , <b>2002</b> , 30, 2299-306	20.1	95
99	Cell-type-specific profiling of brain mitochondria reveals functional and molecular diversity. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 1731-1742	25.5	93

98	Single copy shRNA configuration for ubiquitous gene knockdown in mice. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, e67	20.1	93
97	Conditional brain-specific knockdown of MAPK using Cre/loxP regulated RNA interference. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, e90	20.1	83
96	Plasmodium chabaudi chabaudi: differential susceptibility of gene-targeted mice deficient in IL-10 to an erythrocytic-stage infection. <i>Experimental Parasitology</i> , <b>1996</b> , 84, 253-63	2.1	83
95	A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. <i>Nature Communications</i> , <b>2017</b> , 8, 886	17.4	81
94	Interleukin-4 transgenic mice of resistant background are susceptible to Leishmania major infection. <i>European Journal of Immunology</i> , <b>1993</b> , 23, 566-9	6.1	81
93	Impaired immunosuppressive response to ultraviolet radiation in interleukin-10-deficient mice. <i>Journal of Investigative Dermatology</i> , <b>1996</b> , 107, 553-7	4.3	73
92	Interleukin (IL)-4-independent immunoglobulin class switch to immunoglobulin (Ig)E in the mouse. <i>Journal of Experimental Medicine</i> , <b>1996</b> , 184, 1651-61	16.6	73
91	Phenotypic annotation of the mouse X chromosome. <i>Genome Research</i> , <b>2010</b> , 20, 1154-64	9.7	70
90	Common cytokine receptor gamma chain (gamma c)-dependent cytokines: understanding in vivo functions by gene targeting. <i>Immunological Reviews</i> , <b>1995</b> , 148, 19-34	11.3	67
89	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> , <b>2016</b> , 113, 12514-12519	11.5	65
88	Forebrain-specific knockout of B-raf kinase leads to deficits in hippocampal long-term potentiation, learning, and memory. <i>Journal of Neuroscience Research</i> , <b>2006</b> , 83, 28-38	4.4	61
87	Mutations in Disordered Regions Can Cause Disease by Creating Dileucine Motifs. <i>Cell</i> , <b>2018</b> , 175, 239-253	5.17	58
86	CD19-independent instruction of murine marginal zone B-cell development by constitutive Notch2 signaling. <i>Blood</i> , <b>2011</b> , 118, 6321-31	2.2	57
85	Highly efficient targeted mutagenesis in mice using TALENs. <i>Genetics</i> , <b>2013</b> , 195, 703-13	4	54
84	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> , <b>2012</b> , 109, 9354-9	11.5	54
83	The functional annotation of mammalian genomes: the challenge of phenotyping. <i>Annual Review of Genetics</i> , <b>2009</b> , 43, 305-33	14.5	54
82	Generating conditional knockout mice. <i>Methods in Molecular Biology</i> , <b>2011</b> , 693, 205-31	1.4	53
81	Antiviral immune responses in mice deficient for both interleukin-2 and interleukin-4. <i>Journal of Virology</i> , <b>1995</b> , 69, 4842-6	6.6	52

80	Generation of targeted mouse mutants by embryo microinjection of TALEN mRNA. <i>Nature Protocols</i> , <b>2013</b> , 8, 2355-79	18.8	50
79	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. <i>Nature Communications</i> , <b>2018</b> , 9, 288	17.4	48
78	Pink1-deficiency in mice impairs gait, olfaction and serotonergic innervation of the olfactory bulb. <i>Experimental Neurology</i> , <b>2012</b> , 235, 214-27	5.7	48
77	Control of gene editing by manipulation of DNA repair mechanisms. <i>Mammalian Genome</i> , <b>2017</b> , 28, 262-374	3.74	42
76	Advances in gene targeting methods. <i>Current Opinion in Immunology</i> , <b>1997</b> , 9, 183-8	7.8	41
75	N-desalkylquetiapine activates ERK1/2 to induce GDNF release in C6 glioma cells: a putative cellular mechanism for quetiapine as antidepressant. <i>Neuropharmacology</i> , <b>2012</b> , 62, 209-16	5.5	39
74	Differential mRNA distribution of components of the ERK/MAPK signalling cascade in the adult mouse brain. <i>Journal of Comparative Neurology</i> , <b>2007</b> , 500, 542-56	3.4	38
73	Major histocompatibility complex class II hyperexpression on B cells in interleukin 4-transgenic mice does not lead to B cell proliferation and hypergammaglobulinemia. <i>European Journal of Immunology</i> , <b>1991</b> , 21, 921-5	6.1	37
72	Creation of targeted genomic deletions using TALEN or CRISPR/Cas nuclease pairs in one-cell mouse embryos. <i>FEBS Open Bio</i> , <b>2015</b> , 5, 26-35	2.7	36
71	Oscillations of MyoD and Hes1 proteins regulate the maintenance of activated muscle stem cells. <i>Genes and Development</i> , <b>2019</b> , 33, 524-535	12.6	34
70	Connexin43 is not expressed in principal cells of mouse cortex and hippocampus. <i>European Journal of Neuroscience</i> , <b>2003</b> , 18, 267-74	3.5	33
69	MAPK signaling determines anxiety in the juvenile mouse brain but depression-like behavior in adults. <i>PLoS ONE</i> , <b>2012</b> , 7, e35035	3.7	32
68	Gene editing in mouse zygotes using the CRISPR/Cas9 system. <i>Methods</i> , <b>2017</b> , 121-122, 55-67	4.6	30
67	Enhancement of Precise Gene Editing by the Association of Cas9 With Homologous Recombination Factors. <i>Frontiers in Genetics</i> , <b>2019</b> , 10, 365	4.5	30
66	Neuron-specific ablation of PDGF-B is compatible with normal central nervous system development and astroglial response to injury. <i>Neurochemical Research</i> , <b>2003</b> , 28, 271-9	4.6	30
65	Simultaneous Cre-mediated conditional knockdown of two genes in mice. <i>Genesis</i> , <b>2008</b> , 46, 144-51	1.9	29
64	Gene editing and clonal isolation of human induced pluripotent stem cells using CRISPR/Cas9. <i>Methods</i> , <b>2017</b> , 121-122, 29-44	4.6	28
63	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> , <b>1997</b> , 207, 203-12	2.5	27

62	Hybrid embryonic stem cell-derived tetraploid mice show apparently normal morphological, physiological, and neurological characteristics. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 3982-9	4.8	27
61	Generation of shRNA transgenic mice. <i>Methods in Molecular Biology</i> , <b>2009</b> , 530, 101-29	1.4	26
60	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> , <b>2017</b> , 1863, 2220-2228	6.9	23
59	Efficient generation of rat induced pluripotent stem cells using a non-viral inducible vector. <i>PLoS ONE</i> , <b>2013</b> , 8, e55170	3.7	22
58	A resource of targeted mutant mouse lines for 5,061 genes. <i>Nature Genetics</i> , <b>2021</b> , 53, 416-419	36.3	22
57	Genetic mouse models for behavioral analysis through transgenic RNAi technology. <i>Genes, Brain and Behavior</i> , <b>2008</b> , 7, 821-30	3.6	21
56	Conditional RNAi in mice. <i>Methods</i> , <b>2011</b> , 53, 142-50	4.6	20
55	Sall4 isoforms act during proximal-distal and anterior-posterior axis formation in the mouse embryo. <i>Genesis</i> , <b>2008</b> , 46, 463-77	1.9	20
54	Fusion of SpCas9 to E. coli Rec A protein enhances CRISPR-Cas9 mediated gene knockout in mammalian cells. <i>Journal of Biotechnology</i> , <b>2017</b> , 247, 42-49	3.7	19
53	FGF/FGFR2 signaling regulates the generation and correct positioning of Bergmann glia cells in the developing mouse cerebellum. <i>PLoS ONE</i> , <b>2014</b> , 9, e101124	3.7	18
52	Signal requirements for growth and differentiation of activated murine B lymphocytes. <i>Journal of Immunology</i> , <b>1985</b> , 135, 1213-9	5.3	18
51	Novel caspase-suicide proteins for tamoxifen-inducible apoptosis. <i>Genesis</i> , <b>2008</b> , 46, 530-6	1.9	17
50	Resistance to murine acquired immunodeficiency syndrome (MAIDS). <i>Science</i> , <b>1994</b> , 265, 264	33.3	17
49	Defective metabolic programming impairs early neuronal morphogenesis in neural cultures and an organoid model of Leigh syndrome. <i>Nature Communications</i> , <b>2021</b> , 12, 1929	17.4	17
48	Overview on mouse mutagenesis. <i>Methods in Molecular Biology</i> , <b>2009</b> , 530, 1-12	1.4	16
47	Somatic hypermutation occurs in B cells of terminal deoxynucleotidyl transferase-, CD23-, interleukin-4-, IgD- and CD30-deficient mouse mutants. <i>European Journal of Immunology</i> , <b>1996</b> , 26, 1966-9	6.1	16
46	Generation of targeted mouse mutants by embryo microinjection of TALENs. <i>Methods</i> , <b>2014</b> , 69, 94-101	4.6	14
45	The Parkinson's disease-linked Leucine-rich repeat kinase 2 (LRRK2) is required for insulin-stimulated translocation of GLUT4. <i>Scientific Reports</i> , <b>2019</b> , 9, 4515	4.9	12

44	Conditional knockout mice. <i>Methods in Molecular Biology</i> , <b>2003</b> , 209, 159-85	1.4	12
43	Efficient and Precise CRISPR/Cas9-Mediated MECP2 Modifications in Human-Induced Pluripotent Stem Cells. <i>Frontiers in Genetics</i> , <b>2019</b> , 10, 625	4.5	11
42	Characterization of the melanocortin-4-receptor nonsense mutation W16X in vitro and in vivo. <i>Pharmacogenomics Journal</i> , <b>2013</b> , 13, 80-93	3.5	11
41	Efficient Gene Editing of Human Induced Pluripotent Stem Cells Using CRISPR/Cas9. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1961, 137-151	1.4	10
40	Caspase-mediated apoptosis induction in zebrafish cerebellar Purkinje neurons. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 4279-4287	6.6	10
39	CRISPR-Cas9-Mediated ELANE Mutation Correction in Hematopoietic Stem and Progenitor Cells to Treat Severe Congenital Neutropenia. <i>Molecular Therapy</i> , <b>2020</b> , 28, 2621-2634	11.7	10
38	In vivo functional requirement of the mouse <i>Ifitm1</i> gene for germ cell development, interferon mediated immune response and somitogenesis. <i>PLoS ONE</i> , <b>2012</b> , 7, e44609	3.7	9
37	Constitutive and conditional RNAi transgenesis in mice. <i>Methods</i> , <b>2011</b> , 53, 430-6	4.6	9
36	Development of a species-specific RNA polymerase I-based shRNA expression vector. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, e10	20.1	9
35	Gene knockdown in the mouse through RNAi. <i>Methods in Enzymology</i> , <b>2010</b> , 477, 387-414	1.7	7
34	Regulation of the Natriuretic Peptide Receptor 2 ( <i>Npr2</i> ) by Phosphorylation of Juxtamembrane Serine and Threonine Residues Is Essential for Bifurcation of Sensory Axons. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 9768-9780	6.6	7
33	Efficient CRISPR/Cas9-Mediated Gene Knockin in Mouse Hematopoietic Stem and Progenitor Cells. <i>Cell Reports</i> , <b>2019</b> , 28, 3510-3522.e5	10.6	6
32	Chronic CD30 signaling in B cells results in lymphomagenesis by driving the expansion of plasmablasts and B1 cells. <i>Blood</i> , <b>2019</b> , 133, 2597-2609	2.2	6
31	Interleukin-4-deficient mice. <i>Research in Immunology</i> , <b>1993</b> , 144, 637-8		6
30	In vivo dissection of a clustered-CTCF domain boundary reveals developmental principles of regulatory insulation		6
29	Base editing repairs an SGCA mutation in human primary muscle stem cells. <i>JCI Insight</i> , <b>2021</b> , 6,	9.9	6
28	Pop in, pop out: a novel gene-targeting strategy for use with CRISPR-Cas9. <i>Genome Biology</i> , <b>2015</b> , 16, 244	18.3	5
27	Reversible and tissue-specific activation of MAP kinase signaling by tamoxifen in <i>Braf(V637)ER(T2)</i> mice. <i>Genesis</i> , <b>2013</b> , 51, 448-55	1.9	5

26	Design and Generation of Gene-Targeting Vectors. <i>Current Protocols in Mouse Biology</i> , <b>2011</b> , 1, 199-211	1.1	5
25	Local knockdown of ERK2 in the adult mouse brain via adeno-associated virus-mediated RNA interference. <i>Molecular Biotechnology</i> , <b>2009</b> , 41, 263-9	3	5
24	Target validation in mice by constitutive and conditional RNAi. <i>Methods in Molecular Biology</i> , <b>2013</b> , 986, 307-23	1.4	4
23	Humanized c-Myc mouse. <i>PLoS ONE</i> , <b>2012</b> , 7, e42021	3.7	4
22	Enhancement of CRISPR-Cas9 induced precise gene editing by targeting histone H2A-K15 ubiquitination. <i>BMC Biotechnology</i> , <b>2020</b> , 20, 57	3.5	4
21	Genome wide conditional mouse knockout resources. <i>Drug Discovery Today: Disease Models</i> , <b>2016</b> , 20, 3-12	1.3	3
20	Requirement of mammalian DNA polymerase- $\beta$ in base-excision repair. <i>Nature</i> , <b>1996</b> , 379, 848-848	50.4	3
19	Microglia sense neuronal activity via GABA in the early postnatal hippocampus.. <i>Cell Reports</i> , <b>2021</b> , 37, 110128	10.6	3
18	Genome Editing in Mice Using TALE Nucleases. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1338, 229-43	1.4	2
17	Simple derivation of transgene-free iPS cells by a dual recombinase approach. <i>Molecular Biotechnology</i> , <b>2014</b> , 56, 697-713	3	2
16	Leishmania major and Toxoplasma gondii have opposite effects on cytokine synthesis by macrophages. <i>Memorias Do Instituto Oswaldo Cruz</i> , <b>1994</b> , 89, 649-50	2.6	2
15	Genome engineering in rodents - status quo and perspectives. <i>Laboratory Animals</i> , <b>2021</b> , 236772211051842	1.4	2
14	Profound functional and molecular diversity of mitochondria revealed by cell type-specific profiling in vivo		2
13	A homology independent sequence replacement strategy in human cells using a CRISPR nuclease. <i>Open Biology</i> , <b>2021</b> , 11, 200283	7	2
12	Gene Editing in One-Cell Embryos by Zinc-Finger and TAL Nucleases. <i>Current Protocols in Mouse Biology</i> , <b>2012</b> , 2, 347-64	1.1	2
11	An RNAi-based approach to down-regulate a gene family in vivo. <i>PLoS ONE</i> , <b>2013</b> , 8, e80312	3.7	1
10	Generation of a -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> , <b>2022</b> , 11,	7.9	1
9	Susceptibility to diet-induced obesity at thermoneutral conditions is independent of UCP1.. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2021</b> ,	6	1



8	Interleukin-10 Deficient Mice. <i>Molecular Biology Intelligence Unit</i> , <b>1995</b> , 141-148		1
7	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> , <b>2021</b> , 1	3.2	0
6	Genetic Models of Parkinson's Disease. <i>Neuromethods</i> , <b>2011</b> , 243-265	0.4	
5	Gezielte Manipulation des Genoms mit Zinkfinger-nukleasen. <i>BioSpektrum</i> , <b>2011</b> , 17, 537-540	0.1	
4	Gene targeting in immunology. <i>Research in Immunology</i> , <b>1997</b> , 148, 447-9		
3	Knock out Mice Models for Immunodeficiency Diseases <b>1993</b> , 561-570		
2	High Efficiency Gene Correction in Hematopoietic Cells By Template-Free Crispr/Cas9 Genome Editing. <i>Blood</i> , <b>2016</b> , 128, 3507-3507	2.2	
1	Genetisch veränderte Tiere <b>2012</b> , 149-167		