GÃ¼nther SchÃ¼tz

List of Publications by Year
in descending order

128 papers	27,944 citations	11608 70 h-index	13727 129 g-index
132 all docs	132 docs citations	132 times ranked	25072 citing authors

#	Article	IF	Citations
1	CAT constructions with multiple unique restriction sites for the functional analysis of eukaryotic promoters and regulatory elements. Nucleic Acids Research, 1987, 15, 5490-5490.	6.5	1,823
2	Steroid hormone receptors: Many Actors in search of a plot. Cell, 1995, 83, 851-857.	13.5	1,750
3	Deficient long-term memory in mice with a targeted mutation of the cAMP-responsive element-binding protein. Cell, 1994, 79, 59-68.	13.5	1,725
4	Disruption of the glucocorticoid receptor gene in the nervous system results in reduced anxiety. Nature Genetics, 1999, 23, 99-103.	9.4	1,632
5	CREB regulates hepatic gluconeogenesis through the coactivator PGC-1. Nature, 2001, 413, 179-183.	13.7	1,238
6	CB1 Cannabinoid Receptors and On-Demand Defense Against Excitotoxicity. Science, 2003, 302, 84-88.	6.0	1,083
7	DNA Binding of the Glucocorticoid Receptor Is Not Essential for Survival. Cell, 1998, 93, 531-541.	13.5	1,009
8	Cooperativity of glucocorticoid response elements located far upstream of the tyrosine aminotransferase gene. Cell, 1987, 49, 29-38.	13.5	785
9	Lrp5 Controls Bone Formation by Inhibiting Serotonin Synthesis in the Duodenum. Cell, 2008, 135, 825-837.	13.5	751
10	Mineralocorticoid receptors are indispensable for nongenomic modulation of hippocampal glutamate transmission by corticosterone. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 19204-19207.	3.3	706
11	Disruption of CREB function in brain leads to neurodegeneration. Nature Genetics, 2002, 31, 47-54.	9.4	657
12	G12-G13â€“LARGâ€“mediated signaling in vascular smooth muscle is required for salt-induced hypertension. Nature Medicine, 2008, 14, 64-68.	15.2	584
13	Nucleotide sequence of cloned cDNA encoding bovine arginine vasopressinâ€“neurophysin II precursor. Nature, 1982, 295, 299-303.	13.7	579
14	Severe impairment of permatogenesis in mice lacking the CREM gene. Nature, 1996, 380, 162-165.	13.7	506
15	Definition of Estrogen Receptor Pathway Critical for Estrogen Positive Feedback to Gonadotropin-Releasing Hormone Neurons and Fertility. Neuron, 2006, 52, 271-280.	3.8	503
16	5â€²-Terminal sequences of eucaryotic mRNA can be cloned with high efficiency. Nucleic Acids Research, 1981, 9, 2251-2266.	6.5	398
17	Mineralocorticoid receptor knockout mice: Pathophysiology of Na+metabolism. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9424-9429.	3.3	393
18	Oestrogen and glucocorticoid responsive elements are closely related but distinct. Nature, 1987, 329, 734-736.	13.7	381

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19	Genomic footprinting reveals cell type-specific DNA binding of ubiquitous factors. Cell, 1987, 51, 435-443.	13.5	364
20	Mice with Genetically Altered Glucocorticoid Receptor Expression Show Altered Sensitivity for Stress-Induced Depressive Reactions. Journal of Neuroscience, 2005, 25, 6243-6250.	1.7	350
21	In vivo proteinâ€“DNA interactions in a glucocorticoid response element require the presence of the hormone. Nature, 1986, 324, 686-688.	13.7	346
22	Glucocorticoids Suppress Bone Formation by Attenuating Osteoblast Differentiation via the Monomeric Glucocorticoid Receptor. Cell Metabolism, 2010, 11, 517-531.	7.2	346
23	Spaced training induces normal long-term memory in CREB mutant mice. Current Biology, 1997, 7, 1-11.	1.8	322
24	Sequences in the promoter region of the chicken lysozyme gene required for steroid regulation and receptor binding. Cell, 1984, 37, 503-510.	13.5	321
25	A yeast artificial chromosome covering the tyrosinase gene confers copy number-dependent expression in transgenic mice. Nature, 1993, 362, 258-261.	13.7	292
26	Metaplasticity of amygdalar responses to the stress hormone corticosterone. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14449-14454.	3.3	292
27	Decoding NMDA Receptor Signaling: Identification of Genomic Programs Specifying Neuronal Survival and Death. Neuron, 2007, 53, 549-562.	3.8	277
28	Glucocorticoid responsiveness of the transcriptional enhancer of Moloney Murine Sarcoma Virus. Cell, 1986, 46, 283-290.	13.5	276
29	Reporter constructs with low background activity utilizing the cat gene. Gene, 1992, 110, 129-130.	1.0	253
30	Phosphorylation of CREB Ser142 Regulates Light-Induced Phase Shifts of the Circadian Clock. Neuron, 2002, 34, 245-253.	3.8	233
31	Hepatocyte-specific expression of Cre recombinase. Genesis, 2000, 26, 151-153.	0.8	229
32	Macrophages and neutrophils are the targets for immune suppression by glucocorticoids in contact allergy. Journal of Clinical Investigation, 2007, 117, 1381-1390.	3.9	225
33	Does cAMP Response Element-Binding Protein Have a Pivotal Role in Hippocampal Synaptic Plasticity and Hippocampus-Dependent Memory?. Journal of Neuroscience, 2003, 23, 6304-6314.	1.7	219
34	Genetic Dissection of Behavioural and Autonomic Effects of Î”9-Tetrahydrocannabinol in Mice. PLoS Biology, 2007, 5, e269.	2.6	210
35	Inducible site-specific recombination in the brain 1 1Edited by M. Yaniv. Journal of Molecular Biology, 1999, 285, 175-182.	2.0	206
36	Recent gene conversion involving bovine vasopressin and oxytocin precursor genes suggested by nucleotide sequence. Nature, 1984, 308, 554-557.	13.7	202

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37	The HNF-3 Gene Family of Transcription Factors in Mice: Gene Structure, cDNA Sequence, and mRNA Distribution. Genomics, 1994, 20, 377-385.	1.3	201
38	SRF mediates activity-induced gene expression and synaptic plasticity but not neuronal viability. Nature Neuroscience, 2005, 8, 759-767.	7.1	197
39	Deficits in Memory Tasks of Mice with CREB Mutations Depend on Gene Dosage. Learning and Memory, 1998, 5, 274-288.	0.5	193
40	The DNA Binding-Independent Function of the Glucocorticoid Receptor Mediates Repression of Ap-1â€“Dependent Genes in Skin. Journal of Cell Biology, 1999, 147, 1365-1370.	2.3	179
41	Inactivation of the Glucocorticoid Receptor in Hepatocytes Leads to Fasting Hypoglycemia and Ameliorates Hyperglycemia in Streptozotocin-Induced Diabetes Mellitus. Molecular Endocrinology, 2004, 18, 1346-1353.	3.7	173
42	Dependence of fertility on kisspeptinâ€“Gpr54 signaling at the GnRH neuron. Nature Communications, 2013, 4, 2492.	5.8	173
43	Genetic dissection of glucocorticoid receptor function in mice. Current Opinion in Genetics and Development, 1998, 8, 532-538.	1.5	160
44	The Glucocorticoid Receptor as a Potential Target to Reduce Cocaine Abuse. Journal of Neuroscience, 2003, 23, 4785-4790.	1.7	159
45	Rapid nontranscriptional activation of endothelial nitric oxide synthase mediates increased cerebral blood flow and stroke protection by corticosteroids. Journal of Clinical Investigation, 2002, 110, 1729-1738.	3.9	159
46	A cyclic AMP response element mediates repression of tyrosine aminotransferase gene transcription by the tissue-specific extinguisher locus Tse-1. Cell, 1990, 61, 905-916.	13.5	157
47	Stress and addiction: glucocorticoid receptor in dopaminoceptive neurons facilitates cocaine seeking. Nature Neuroscience, 2009, 12, 247-249.	7.1	156
48	Two genetically defined trans-acting loci coordinately regulate overlapping sets of liver-specific genes. Cell, 1990, 61, 895-904.	13.5	154
49	Camptothecin-induced in vivo topoisomerase I cleavages in the transcriptionally active tyrosine aminotransferase gene. Cell, 1987, 50, 1109-1117.	13.5	144
50	Activating Transcription Factor 1 and CREB Are Important for Cell Survival during Early Mouse Development. Molecular and Cellular Biology, 2002, 22, 1919-1925.	1.1	144
51	Genetic disruption of mineralocorticoid receptor leads to impaired neurogenesis and granule cell degeneration in the hippocampus of adult mice. EMBO Reports, 2000, 1, 447-451.	2.0	142
52	cAMP Response Element-Binding Protein Regulates Differentiation and Survival of Newborn Neurons in the Olfactory Bulb. Journal of Neuroscience, 2005, 25, 10105-10118.	1.7	142
53	A role for neuronal cAMP responsive-element binding (CREB)-1 in brain responses to calorie restriction. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 621-626.	3.3	141
54	Altered emotional behavior in PACAP-type-I-receptor-deficient mice. Molecular Brain Research, 2001, 92, 78-84.	2.5	133

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55	Inducible gene inactivation in neurons of the adult mouse forebrain. BMC Neuroscience, 2007, 8, 63.	0.8	133
56	Glucocorticoid signallingâ€"multiple variations of a common theme. Molecular and Cellular Endocrinology, 1998, 146, 1-6.	1.6	127
57	A muscle-liver-fat signalling axis is essential for central control of adaptive adipose remodelling. Nature Communications, 2015, 6, 6693.	5.8	119
58	Glucocorticoids Drive Diurnal Oscillations in T Cell Distribution and Responses by Inducing Interleukin-7 Receptor and CXCR4. Immunity, 2018, 48, 286-298.e6.	6.6	118
59	Glucocorticoid receptor function in hepatocytes is essential to promote postnatal body growth. Genes and Development, 2004, 18, 492-497.	2.7	110
60	Modulation of Anxiety-Like Behavior and Morphine Dependence in CREB-Deficient Mice. Neuropsychopharmacology, 2004, 29, 1122-1133.	2.8	107
61	CREB mediates brain serotonin regulation of bone mass through its expression in ventromedial hypothalamic neurons. Genes and Development, 2010, 24, 2330-2342.	2.7	105
62	Corticosteroid receptors in the brain: gene targeting studies. Brain Research Bulletin, 2002, 57, 73-83.	1.4	102
63	Direct glucocorticoid receptor-Stat5 interaction in hepatocytes controls body size and maturation-related gene expression. Genes and Development, 2007, 21, 1157-1162.	2.7	99
64	Anaphylactic shock depends on endothelial Gq/G11. Journal of Experimental Medicine, 2009, 206, 411-420.	4.2	94
65	Absence of Glucocorticoid Receptor-Î² in Mice. Journal of Biological Chemistry, 1997, 272, 26665-26668.	1.6	93
66	Disrupting Hypothalamic Glucocorticoid Receptors Causes HPA Axis Hyperactivity and Excess Adiposity. Molecular Endocrinology, 2013, 27, 1655-1665.	3.7	83
67	Activation of an Endogenous Suicide Response after Perturbation of rRNA Synthesis Leads to Neurodegeneration in Mice. Journal of Neuroscience, 2008, 28, 12759-12764.	1.7	81
68	Glucocorticoids inhibit activation-induced cell death (AICD) via direct DNA-dependent repression of the CD95 ligand gene by a glucocorticoid receptor dimer. Blood, 2005, 106, 617-625.	0.6	78
69	Dicer and microRNAs protect adult dopamine neurons. Cell Death and Disease, 2017, 8, e2813-e2813.	2.7	77
70	Rapid nontranscriptional activation of endothelial nitric oxide synthase mediates increased cerebral blood flow and stroke protection by corticosteroids. Journal of Clinical Investigation, 2002, 110, 1729-1738.	3.9	77
71	Forebrain-Specific Inactivation of G q /G 11 Family G Proteins Results in Age-Dependent Epilepsy and Impaired Endocannabinoid Formation. Molecular and Cellular Biology, 2006, 26, 5888-5894.	1.1	73
72	CREB has a contextâ€dependent role in activityâ€regulated transcription and maintains neuronal cholesterol homeostasis. FASEB Journal, 2008, 22, 2872-2879.	0.2	73

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73	DNA Binding by Estrogen Receptor-Î± Is Essential for the Transcriptional Response to Estrogen in the Liver and the Uterus. Molecular Endocrinology, 2009, 23, 1544-1555.	3.7	73
74	Postnatal Glucocorticoid Excess Due to Pituitary Glucocorticoid Receptor Deficiency: Differential Short- and Long-Term Consequences. Endocrinology, 2009, 150, 2709-2716.	1.4	69
75	Expression of Cre recombinase in dopaminoceptive neurons. BMC Neuroscience, 2007, 8, 4.	0.8	68
76	Neuronal Estrogen Receptor-Î± Mediates Neuroprotection by 17Î²-Estradiol. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 935-942.	2.4	66
77	Cloning of chicken lysozyme structural gene sequences synthesized in vitro. Nucleic Acids Research, 1978, 5, 3275-3294.	6.5	64
78	The Epithelial Glucocorticoid Receptor Is Required for the Normal Timing of Cell Proliferation during Mammary Lobuloalveolar Development but Is Dispensable for Milk Production. Molecular Endocrinology, 2005, 19, 340-349.	3.7	62
79	Specific ablation of the transcription factor CREB in sympathetic neurons surprisingly protects against developmentally regulated apoptosis. Development (Cambridge), 2007, 134, 1663-1670.	1.2	61
80	Feedback Control of Glucocorticoid Production is Established during Fetal Development. Molecular Medicine, 1996, 2, 735-744.	1.9	59
81	Inactivation of the GR in the Nervous System Affects Energy Accumulation. Endocrinology, 2002, 143, 2333-2340.	1.4	55
82	Sexual Differentiation of the Brain Requires Perinatal Kisspeptin-GnRH Neuron Signaling. Journal of Neuroscience, 2014, 34, 15297-15305.	1.7	54
83	Analysis of glucocorticoid signalling by gene targeting. Journal of Steroid Biochemistry and Molecular Biology, 1998, 65, 111-115.	1.2	53
84	Glucocorticoid Receptor Is Required for Skin Barrier Competence. Endocrinology, 2008, 149, 1377-1388.	1.4	52
85	New Insights into Glucocorticoid and Mineralocorticoid Signaling: Lessons from Gene Targeting. Advances in Pharmacology, 1999, 47, 1-21.	1.2	43
86	Î± Complementation in the Cre recombinase enzyme. Genesis, 2003, 37, 25-29.	0.8	42
87	Bone Morphogenetic Protein-4, a Novel Modulator of Melanogenesis. Journal of Biological Chemistry, 2006, 281, 25307-25314.	1.6	42
88	Transcriptional regulation in endoderm development: characterization of an enhancer controlling Hnf3g expression by transgenesis and targeted mutagenesis. EMBO Journal, 1997, 16, 3995-4006.	3.5	41
89	The MicroRNA Contribution to Learning and Memory. Neuroscientist, 2011, 17, 468-474.	2.6	41
90	Glucocorticoid Activity during Lung Maturation Is Essential in Mesenchymal and Less in Alveolar Epithelial Cells. Molecular Endocrinology, 2011, 25, 1280-1288.	3.7	41

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91	A fate-mapping approach reveals the composite origin of the connecting tubule and alerts on â€œsingle-cellâ€•specific KO model of the distal nephron. American Journal of Physiology - Renal Physiology, 2016, 311, F901-F906.	1.3	41
92	Heterotrimeric G Proteins of the G q/11 Family Are Crucial for the Induction of Maternal Behavior in Mice. Molecular and Cellular Biology, 2004, 24, 8048-8054.	1.1	40
93	Analysis of CREM-dependent gene expression during mouse spermatogenesis. Molecular and Cellular Endocrinology, 2003, 212, 29-39.	1.6	39
94	Molecular Genetic Analysis of Glucocorticoid Signaling Using the Cre/loxP System. Biological Chemistry, 2000, 381, 961-964.	1.2	37
95	Impaired cardiac contraction and relaxation and decreased expression of sarcoplasmic Ca2+â€ATPase in mice lacking the CREM gene. FASEB Journal, 2003, 17, 103-105.	0.2	37
96	Universal Î²-galactosidase cloning vectors for promoter analysis and gene targeting. Gene, 1994, 148, 67-70.	1.0	36
97	The Mineralocorticoid Receptor May Compensate for the Loss of the Glucocorticoid Receptor at Specific Stages of Mammary Gland Development. Molecular Endocrinology, 2002, 16, 2008-2018.	3.7	36
98	Loss of the Ca ²⁺ /calmodulin-dependent protein kinase type IV in dopaminoceptive neurons enhances behavioral effects of cocaine. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17549-17554.	3.3	36
99	Inducible gene manipulations in serotonergic neurons. Frontiers in Molecular Neuroscience, 2009, 2, 24.	1.4	34
100	Conditional Inactivation of Glucocorticoid Receptor Gene in Dopamine-Î²-Hydroxylase Cells Impairs Chromaffin Cell Survival. Endocrinology, 2009, 150, 1775-1781.	1.4	33
101	Evaluation of steroid receptor function by gene targeting in mice. Journal of Steroid Biochemistry and Molecular Biology, 2005, 93, 107-112.	1.2	32
102	Loss of Glucocorticoid Receptor Function in the Pituitary Results in Early Postnatal Lethality. Endocrinology, 2008, 149, 3446-3451.	1.4	32
103	Impaired rRNA synthesis triggers homeostatic responses in hippocampal neurons. Frontiers in Cellular Neuroscience, 2013, 7, 207.	1.8	31
104	The CREB/CREM Transcription Factors Negatively Regulate Early Synaptogenesis and Spontaneous Network Activity. Journal of Neuroscience, 2009, 29, 328-333.	1.7	29
105	New Striatal Neurons in a Mouse Model of Progressive Striatal Degeneration Are Generated in both the Subventricular Zone and the Striatal Parenchyma. PLoS ONE, 2011, 6, e25088.	1.1	28
106	Cardiomyocyteâ€specific inactivation of transcription factor CREB in mice. FASEB Journal, 2007, 21, 1884-1892.	0.2	25
107	Perinatal activation of a tyrosine aminotransferase fusion gene does not occur in albino lethal mice. Mechanisms of Development, 1993, 42, 59-65.	1.7	23
108	CREB function is required for normal thymic cellularity and post-irradiation recovery. European Journal of Immunology, 2004, 34, 1961-1971.	1.6	21

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109	Molecular Characterization of the Mouse Tyrosinase Gene:Pigment Cell-Specific Expression in Transgenic Mice. Pigment Cell & Melanoma Research, 1992, 5, 295-299.	4.0	20
110	Effects of the cell typeâ€specific ablation of the cAMPâ€responsive transcription factor in noradrenergic neurons on locus coeruleus firing and withdrawal behavior after chronic exposure to morphine. Journal of Neurochemistry, 2010, 115, 563-573.	2.1	20
111	Essential role of CREB family proteins during Xenopus embryogenesis. Mechanisms of Development, 1999, 88, 55-66.	1.7	19
112	CREB activity in dopamine D1 receptor expressing neurons regulates cocaine-induced behavioral effects. Frontiers in Behavioral Neuroscience, 2014, 8, 212.	1.0	18
113	Pharmacological Estrogen Administration Causes a FSH-Independent Osteo-Anabolic Effect Requiring ER Alpha in Osteoblasts. PLoS ONE, 2012, 7, e50301.	1.1	18
114	Analysis of the Mouse Tyrosinase Promoter In Vitro and In Vivo. Pigment Cell & Melanoma Research, 1994, 7, 275-278.	4.0	17
115	PCR-Based Strategy for Genotyping Mice and ES Cells Harboring LoxP Sites. BioTechniques, 1998, 25, 968-972.	0.8	17
116	Regulation of neural migration by the CREB/CREM transcription factors and altered Dab1 levels in CREB/CREM mutants. Molecular and Cellular Neurosciences, 2008, 39, 519-528.	1.0	17
117	Hypothalamic 3â€²,5â€²-Cyclic Adenosine Monophosphate Response Element-Binding Protein Loss Causes Anterior Pituitary Hypoplasia and Dwarfism in Mice. Molecular Endocrinology, 2006, 20, 204-211.	3.7	15
118	Cell-type specificity of regulatory elements identified by linker scanning mutagenesis in the promoter of the chicken lysozyme gene. Nucleic Acids Research, 1989, 17, 8451-8462.	6.5	14
119	Characterization of the nuclear proteins binding the CACCC element of a glucocorticoid-responsive enhancer in the tyrosine aminotransferase gene. FEBS Journal, 1993, 211, 459-465.	0.2	12
120	Ablation of serum response factor in dopaminergic neurons exacerbates susceptibility towards MPTPâ€induced oxidative stress. European Journal of Neuroscience, 2012, 35, 735-741.	1.2	11
121	Generation of Inhibitory Mutants of Hepatocyte Nuclear Factor 4. FEBS Journal, 1997, 244, 883-889.	0.2	7
122	Hormonal and liver-specific control of expression of the tyrosine aminotransferase gene. Molecular Aspects of Cellular Regulation, 1991, 6, 223-234.	1.4	7
123	Role of cyclic AMP in the control of cell-specific gene expression. Trends in Endocrinology and Metabolism, 1993, 4, 204-209.	3.1	6
124	MicroRNAs are indispensable for the proliferation and differentiation of adult neural progenitor cells in mice. Biochemical and Biophysical Research Communications, 2020, 530, 209-214.	1.0	4
125	Knockout of ATF1 leads to enhanced cardiac contractility and output. FASEB Journal, 2008, 22, 1155.14.	0.2	4
126	Construction of a conditional allele of RSK-B/MSK2 in the mouse. Genesis, 2002, 32, 158-160.	0.8	2

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127	Control of Gene Expression by Steroid Hormones. Interdisciplinary Science Reviews, 1989, 14, 212-215.	1.0	0
128	The Albino Perinatal Lethal Mutation: Identification of Affected mRNAs and Mapping of the Locus by Pulsed-Field Gel Electrophoresis. , 1989, , 47-62.		0