

Dietmar Kuhl

List of Publications by Year in descending order

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103
papers

13,201
citations

41323

49
h-index

30058

103
g-index

105
all docs

105
docs citations

105
times ranked

13669
citing authors

#	ARTICLE	IF	CITATIONS
1	Widespread transcription at neuronal activity-regulated enhancers. <i>Nature</i> , 2010, 465, 182-187.	13.7	2,120
2	Tissue-plasminogen activator is induced as an immediate-early gene during seizure, kindling and long-term potentiation. <i>Nature</i> , 1993, 361, 453-457.	13.7	771
3	Arc/Arg3.1 Is Essential for the Consolidation of Synaptic Plasticity and Memories. <i>Neuron</i> , 2006, 52, 437-444.	3.8	743
4	Arc/Arg3.1 Interacts with the Endocytic Machinery to Regulate AMPA Receptor Trafficking. <i>Neuron</i> , 2006, 52, 445-459.	3.8	691
5	Arc/Arg3.1 Mediates Homeostatic Synaptic Scaling of AMPA Receptors. <i>Neuron</i> , 2006, 52, 475-484.	3.8	684
6	Somatodendritic expression of an immediate early gene is regulated by synaptic activity.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 5734-5738.	3.3	659
7	Sgk1-Dependent Stimulation of Cardiac Na ⁺ /H ⁺ Exchanger Nhe1 by Dexamethasone. <i>Cellular Physiology and Biochemistry</i> , 2013, 32, 25-38.	1.1	654
8	Elongation Factor 2 and Fragile X Mental Retardation Protein Control the Dynamic Translation of Arc/Arg3.1 Essential for mGluR-LTD. <i>Neuron</i> , 2008, 59, 70-83.	3.8	471
9	Exploitation of KESTREL to identify NDRG family members as physiological substrates for SGK1 and GSK3. <i>Biochemical Journal</i> , 2004, 384, 477-488.	1.7	299
10	Impaired renal Na ⁺ retention in the sgk1-knockout mouse. <i>Journal of Clinical Investigation</i> , 2002, 110, 1263-1268.	3.9	271
11	Arg3.1/Arc mRNA Induction by Ca ²⁺ and cAMP Requires Protein Kinase A and Mitogen-Activated Protein Kinase/Extracellular Regulated Kinase Activation. <i>Journal of Neuroscience</i> , 2001, 21, 5484-5493.	1.7	239
12	Expression and phosphorylation of the Na ⁺ -Cl ⁻ cotransporter NCC in vivo is regulated by dietary salt, potassium, and SGK1. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, F704-F712.	1.3	225
13	A different form of long-lasting potentiation revealed in tissue plasminogen activator mutant mice. <i>Journal of Neuroscience</i> , 1996, 16, 2057-2063.	1.7	204
14	The polo-like protein kinases Fnk and Snk associate with a Ca ²⁺ - and integrin-binding protein and are regulated dynamically with synaptic plasticity. <i>EMBO Journal</i> , 1999, 18, 5528-5539.	3.5	200
15	Impaired renal Na ⁺ retention in the sgk1-knockout mouse. <i>Journal of Clinical Investigation</i> , 2002, 110, 1263-1268.	3.9	196
16	Activity-Induced Notch Signaling in Neurons Requires Arc/Arg3.1 and Is Essential for Synaptic Plasticity in Hippocampal Networks. <i>Neuron</i> , 2011, 69, 437-444.	3.8	184
17	Arc/Arg3.1 Regulates an Endosomal Pathway Essential for Activity-Dependent A β Amyloid Generation. <i>Cell</i> , 2011, 147, 615-628.	13.5	183
18	Different pathways mediate virus inducibility of the human IFN- β 1 and IFN- β 2 genes. <i>Cell</i> , 1990, 60, 767-779.	13.5	177

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19	Arc-dependent synapse-specific homeostatic plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 816-821.	3.3	165
20	Serum- and Glucocorticoid-Inducible Kinase 1 (SGK1) Mediates Glucocorticoid-Induced Inhibition of Insulin Secretion. Diabetes, 2005, 54, 1090-1099.	0.3	155
21	Aldosterone-induced Sgk1 relieves Dot1a-Af9-mediated transcriptional repression of epithelial Na ⁺ channel β . Journal of Clinical Investigation, 2007, 117, 773-783.	3.9	150
22	Reversible silencing of enhancers by sequences derived from the human IFN- β promoter. Cell, 1987, 50, 1057-1069.	13.5	133
23	Novelty-induced increased expression of immediate-early genes c-fos and arg 3.1 in the mouse brain. , 1999, 38, 234-246.		126
24	The serum- and glucocorticoid-inducible kinase 1 (SGK1) influences platelet calcium signaling and function by regulation of Orai1 expression in megakaryocytes. Blood, 2012, 119, 251-261.	0.6	126
25	A Specific Requirement of Arc/Arg3.1 for Visual Experience-Induced Homeostatic Synaptic Plasticity in Mouse Primary Visual Cortex. Journal of Neuroscience, 2010, 30, 7168-7178.	1.7	123
26	Impaired Regulation of Renal K ⁺ Elimination in the sgk1-Knockout Mouse. Journal of the American Society of Nephrology: JASN, 2004, 15, 885-891.	3.0	115
27	SGK1 induces vascular smooth muscle cell calcification through NF- κ B signaling. Journal of Clinical Investigation, 2018, 128, 3024-3040.	3.9	114
28	SGK1-dependent cardiac CTGF formation and fibrosis following DOCA treatment. Journal of Molecular Medicine, 2006, 84, 396-404.	1.7	111
29	Activation of serum/glucocorticoid-induced kinase 1 (SGK1) is important to maintain skeletal muscle homeostasis and prevent atrophy. EMBO Molecular Medicine, 2013, 5, 80-91.	3.3	100
30	Dendritic localization of mRNAs. Current Opinion in Neurobiology, 1998, 8, 600-606.	2.0	94
31	Long-term sensitization training in Aplysia leads to an increase in the expression of BiP, the major protein chaperon of the ER.. Journal of Cell Biology, 1992, 119, 1069-1076.	2.3	83
32	Stimulation of Ca ²⁺ channel Orai1/STIM1 by serum and glucocorticoid-inducible kinase 1 (SGK1). FASEB Journal, 2011, 25, 2012-2021.	0.2	82
33	A tri-hybrid system for the analysis and detection of RNA-protein interactions. Nucleic Acids Research, 1996, 24, 4838-4840.	6.5	79
34	Long-Term sensitization training in Aplysia leads to an increase in calreticulin, a major presynaptic calcium-binding protein. Neuron, 1992, 9, 1013-1024.	3.8	76
35	Cerebral localization and regulation of the cell volume-sensitive serum- and glucocorticoid-dependent kinase SGK1. Pflugers Archiv European Journal of Physiology, 2002, 443, 617-624.	1.3	75
36	BDNF-induced LTP is associated with rapid Arc/Arg3.1-dependent enhancement in adult hippocampal neurogenesis. Scientific Reports, 2016, 6, 21222.	1.6	74

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37	Pim kinase expression is induced by LTP stimulation and required for the consolidation of enduring LTP. <i>EMBO Journal</i> , 1999, 18, 3359-3369.	3.5	72
38	SRF binding to SRE 6.9 in the Arc promoter is essential for LTD in cultured Purkinje cells. <i>Nature Neuroscience</i> , 2010, 13, 1082-1089.	7.1	72
39	The Kinesin KIF21B Regulates Microtubule Dynamics and Is Essential for Neuronal Morphology, Synapse Function, and Learning and Memory. <i>Cell Reports</i> , 2016, 15, 968-977.	2.9	70
40	The three sorCS genes are differentially expressed and regulated by synaptic activity. <i>Journal of Neurochemistry</i> , 2004, 88, 1470-1476.	2.1	66
41	SGK1 as a determinant of kidney function and salt intake in response to mineralocorticoid excess. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R395-R401.	0.9	66
42	Role of Sgk1 in salt and potassium homeostasis. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R4-R10.	0.9	64
43	Blunted hypertensive effect of combined fructose and high-salt diet in gene-targeted mice lacking functional serum- and glucocorticoid-inducible kinase SGK1. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R935-R944.	0.9	64
44	Adhesion induced expression of the serine/threonine kinase Fnk in human macrophages. <i>Oncogene</i> , 2000, 19, 4832-4839.	2.6	62
45	Resistance of mice lacking the serum- and glucocorticoid-inducible kinase SGK1 against salt-sensitive hypertension induced by a high-fat diet. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 291, F1264-F1273.	1.3	62
46	Two rat brain Staufen isoforms differentially bind RNA. <i>Journal of Neurochemistry</i> , 2008, 76, 155-165.	2.1	62
47	Serum- and glucocorticoid-regulated kinase 1 is upregulated following unilateral ureteral obstruction causing epithelial-mesenchymal transition. <i>Kidney International</i> , 2010, 78, 668-678.	2.6	58
48	Pivotal Role of Serum- and Glucocorticoid-Inducible Kinase 1 in Vascular Inflammation and Atherogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 547-557.	1.1	55
49	Intestinal function of gene-targeted mice lacking serum- and glucocorticoid-inducible kinase 1. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, G1114-G1123.	1.6	53
50	Relative resistance of SGK1 knockout mice against chemical carcinogenesis. <i>IUBMB Life</i> , 2009, 61, 768-776.	1.5	53
51	Blunted DOCA/high salt induced albuminuria and renal tubulointerstitial damage in gene-targeted mice lacking SGK1. <i>Journal of Molecular Medicine</i> , 2006, 84, 737-746.	1.7	49
52	Profiling the MAPK/ERK dependent and independent activity regulated transcriptional programs in the murine hippocampus in vivo. <i>Scientific Reports</i> , 2017, 7, 45101.	1.6	48
53	Sgk1 sensitivity of Na ⁺ /H ⁺ exchanger activity and cardiac remodeling following pressure overload. <i>Basic Research in Cardiology</i> , 2012, 107, 236.	2.5	47
54	Renal function of gene-targeted mice lacking both SGK1 and SGK3. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R945-R950.	0.9	44

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55	Fluorescent Arc/Arg3.1 indicator mice: A versatile tool to study brain activity changes in vitro and in vivo. <i>Journal of Neuroscience Methods</i> , 2009, 184, 25-36.	1.3	43
56	Serum- and Glucocorticoid-Inducible Kinase 1 Mediates Salt Sensitivity of Glucose Tolerance. <i>Diabetes</i> , 2006, 55, 2059-2066.	0.3	41
57	Arc/Arg3.1 governs inflammatory dendritic cell migration from the skin and thereby controls T cell activation. <i>Science Immunology</i> , 2016, 1, eaaf8665.	5.6	40
58	Different Motifs Regulate Trafficking of SorCS1 Isoforms. <i>Traffic</i> , 2008, 9, 980-994.	1.3	39
59	Arc/Arg3.1 mediates a critical period for spatial learning and hippocampal networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12531-12536.	3.3	38
60	Genome-Wide Profiling of the Activity-Dependent Hippocampal Transcriptome. <i>PLoS ONE</i> , 2013, 8, e76903.	1.1	38
61	Odors regulate Arc expression in neuronal ensembles engaged in odor processing. <i>NeuroReport</i> , 2000, 11, 1809-1813.	0.6	37
62	DOCA-induced Phosphorylation of Glycogen Synthase Kinase 3 β . <i>Cellular Physiology and Biochemistry</i> , 2006, 17, 137-144.	1.1	37
63	SGK1 Sensitivity of Platelet Migration. <i>Cellular Physiology and Biochemistry</i> , 2012, 30, 259-268.	1.1	37
64	Regulation of the excitatory amino acid transporter EAAT5 by the serum and glucocorticoid dependent kinases SGK1 and SGK3. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 738-742.	1.0	34
65	SGK1-dependent Intestinal Tumor Growth in APC-deficient Mice. <i>Cellular Physiology and Biochemistry</i> , 2010, 25, 271-278.	1.1	34
66	Serum- and Glucocorticoid-Inducible Kinase 1 Sensitive NF- κ B Signaling in Dendritic Cells. <i>Cellular Physiology and Biochemistry</i> , 2014, 34, 943-954.	1.1	34
67	SGK1-dependent ENaC processing and trafficking in mice with high dietary K intake and elevated aldosterone. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F65-F76.	1.3	33
68	Structural Properties of Synaptic Transmission and Temporal Dynamics at Excitatory Layer 5B Synapses in the Adult Rat Somatosensory Cortex. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 24.	1.3	31
69	MGluRs regulate the expression of neuronal calcium sensor proteins NCS-1 and VILIP-1 and the immediate early gene <i>arg3.1/arc</i> in the hippocampus in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2004, 322, 1073-1079.	1.0	29
70	Role of the serum and glucocorticoid inducible kinase SGK1 in glucocorticoid stimulation of gastric acid secretion. <i>Pflügers Archiv European Journal of Physiology</i> , 2007, 455, 493-503.	1.3	29
71	SGK1-sensitive renal tubular glucose reabsorption in diabetes. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F859-F866.	1.3	29
72	Impaired Mast Cell Activation in Gene-Targeted Mice Lacking the Serum- and Glucocorticoid-Inducible Kinase SGK1. <i>Journal of Immunology</i> , 2009, 183, 4395-4402.	0.4	29

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73	The N-terminus of the serum- and glucocorticoid-inducible kinase Sgk1 specifies mitochondrial localization and rapid turnover. <i>Biochemical Journal</i> , 2006, 399, 69-76.	1.7	28
74	Lack of the serum and glucocorticoid-inducible kinase SGK1 attenuates the volume retention after treatment with the PPAR α agonist pioglitazone. <i>Pflügers Archiv European Journal of Physiology</i> , 2008, 456, 425-436.	1.3	28
75	Role of maternal glucocorticoid inducible kinase SGK1 in fetal programming of blood pressure in response to prenatal diet. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R2008-R2013.	0.9	28
76	Dexamethasone increases Na ⁺ /K ⁺ ATPase activity in insulin secreting cells through SGK1. <i>Biochemical and Biophysical Research Communications</i> , 2007, 352, 662-667.	1.0	25
77	The Serum and Glucocorticoid-Regulated Kinase 1 in Hypoxic Renal Injury. <i>Cellular Physiology and Biochemistry</i> , 2009, 24, 577-584.	1.1	24
78	Revisiting the neuronal localization and trafficking of CLN3 in juvenile neuronal ceroid lipofuscinosis. <i>Journal of Neurochemistry</i> , 2016, 139, 456-470.	2.1	24
79	Hyperaldosteronism, hypovolemia, and increased blood pressure in mice expressing defective APC. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R571-R575.	0.9	23
80	Neuronal activity-regulated alternative mRNA splicing. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 91, 184-193.	1.2	23
81	Nociceptive Stimulation Induces Expression of Arc/Arg3.1 in the Spinal Cord with a Preference for Neurons Containing Enkephalin. <i>Molecular Pain</i> , 2010, 6, 1744-8069-6-43.	1.0	21
82	SorCS1 variants and amyloid precursor protein (APP) are co-transported in neurons but only SorCS1c modulates anterograde APP transport. <i>Journal of Neurochemistry</i> , 2015, 135, 60-75.	2.1	20
83	Role of Serum- and Glucocorticoid-Inducible Kinase SGK1 in Glucocorticoid Regulation of Renal Electrolyte Excretion and Blood Pressure. <i>Kidney and Blood Pressure Research</i> , 2008, 31, 280-289.	0.9	19
84	Renal Ca ²⁺ handling in sgk1 knockout mice. <i>Pflügers Archiv European Journal of Physiology</i> , 2006, 452, 444-452.	1.3	17
85	SGK1 is not required for regulation of colonic ENaC activity. <i>Pflügers Archiv European Journal of Physiology</i> , 2006, 453, 97-105.	1.3	17
86	Lack of the serum- and glucocorticoid-inducible kinase SGK1 improves muscle force characteristics and attenuates fibrosis in dystrophic mdx mouse muscle. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 1965-1974.	1.3	17
87	SGK1-Dependent Upregulation of Connective Tissue Growth Factor by Angiotensin II. <i>Kidney and Blood Pressure Research</i> , 2008, 31, 80-86.	0.9	16
88	SGK1 dependence of insulin induced hypokalemia. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 457, 955-961.	1.3	16
89	Pioglitazone Induced Gastric Acid Secretion. <i>Cellular Physiology and Biochemistry</i> , 2009, 24, 193-200.	1.1	14
90	Stimulation of electrogenic intestinal dipeptide transport by the glucocorticoid dexamethasone. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 459, 191-202.	1.3	14

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91	Cognitive impairment and autistic-like behaviour in SAPAP4-deficient mice. <i>Translational Psychiatry</i> , 2019, 9, 7.	2.4	13
92	Amyloidosis causes downregulation of <i>SorLA</i> , <i>SorCS1</i> and <i>SorCS3</i> expression in mice. <i>Biological Chemistry</i> , 2019, 400, 1181-1189.	1.2	13
93	Converging roles of PSENEN/PEN2 and CLN3 in the autophagy-lysosome system. <i>Autophagy</i> , 2022, 18, 2068-2085.	4.3	12
94	Deranged Kv channel regulation in fibroblasts from mice lacking the serum and glucocorticoid inducible kinase SGK1. <i>Journal of Cellular Physiology</i> , 2005, 204, 87-98.	2.0	11
95	SGK1-dependent stimulation of intestinal SGLT1 activity by vitamin D. <i>Pflügers Archiv European Journal of Physiology</i> , 2011, 462, 489-494.	1.3	11
96	Disturbed Prefrontal Cortex Activity in the Absence of Schizophrenia-Like Behavioral Dysfunction in <i>Arc/Arg3.1</i> Deficient Mice. <i>Journal of Neuroscience</i> , 2019, 39, 8149-8163.	1.7	11
97	SGK1 up-regulates <i>Orai1</i> expression and VSMC migration during neointima formation after arterial injury. <i>Thrombosis and Haemostasis</i> , 2017, 117, 1002-1005.	1.8	10
98	Effects of <i>Arc/Arg3.1</i> gene deletion on rhythmic synchronization of hippocampal CA1 neurons during locomotor activity and sleep. <i>Neurobiology of Learning and Memory</i> , 2016, 131, 155-165.	1.0	9
99	A subtractive hybridisation method for the enrichment of moderately induced sequences. <i>Nucleic Acids Research</i> , 1998, 26, 1359-1361.	6.5	8
100	Neuronal activity regulates alternative exon usage. <i>Molecular Brain</i> , 2020, 13, 148.	1.3	7
101	Induction of Glycerol Phosphate Dehydrogenase Gene Expression During Seizure and Analgesia. <i>Journal of Neurochemistry</i> , 2002, 75, 1419-1428.	2.1	6
102	The adaptor protein PICK1 targets the sorting receptor <i>SorLA</i> . <i>Molecular Brain</i> , 2022, 15, 18.	1.3	3
103	TMIC-20. INHIBITION OF SLC7A11 REDUCES EXCITATORY SYNAPTIC INPUT OF PERITUMORAL NEURONS IN GLIOMA PATIENTS. <i>Neuro-Oncology</i> , 2017, 19, vi247-vi247.	0.6	0