# Dietmar Kuhl

List of Publications by Year
in descending order

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|---|---|---|---|
| 104 papers | 13,201 citations | 41344 49 h-index | 30087 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. Nature, 2010, 465, 182-187. | 27.8 | 2,120 |
| 2 | Tissue-plasminogen activator is induced as an immediateâ€“early gene during seizure, kindling and long-term potentiation. Nature, 1993, 361, 453-457. | 27.8 | 771 |
| 3 | Arc/Arg3.1 Is Essential for the Consolidation of Synaptic Plasticity and Memories. Neuron, 2006, 52, 437-444. | 8.1 | 743 |
| 4 | Arc/Arg3.1 Interacts with the Endocytic Machinery to Regulate AMPA Receptor Trafficking. Neuron, 2006, 52, 445-459. | 8.1 | 691 |
| 5 | Arc/Arg3.1 Mediates Homeostatic Synaptic Scaling of AMPA Receptors. Neuron, 2006, 52, 475-484. | 8.1 | 684 |
| 6 | Somatodendritic expression of an immediate early gene is regulated by synaptic activity.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 5734-5738. | 7.1 | 659 |
| 7 | Sgk1-Dependent Stimulation of Cardiac Na<sup>+</sup>/H<sup>+</sup>Exchanger Nhe1 by Dexamethasone. Cellular Physiology and Biochemistry, 2013, 32, 25-38. | 1.6 | 654 |
| 8 | Elongation Factor 2 and Fragile X Mental Retardation Protein Control the Dynamic Translation of Arc/Arg3.1 Essential for mGluR-LTD. Neuron, 2008, 59, 70-83. | 8.1 | 471 |
| 9 | Exploitation of KESTREL to identify NDRG family members as physiological substrates for SGK1 and GSK3. Biochemical Journal, 2004, 384, 477-488. | 3.7 | 299 |
| 10 | Impaired renal Na+ retention in the sgk1-knockout mouse. Journal of Clinical Investigation, 2002, 110, 1263-1268. | 8.2 | 271 |
| 11 | Arg3.1/Arc mRNA Induction by Ca<sup>2+</sup>and cAMP Requires Protein Kinase A and Mitogen-Activated Protein Kinase/Extracellular Regulated Kinase Activation. Journal of Neuroscience, 2001, 21, 5484-5493. | 3.6 | 239 |
| 12 | Expression and phosphorylation of the Na<sup>+</sup>-Cl<sup>â^'</sup> cotransporter NCC in vivo is regulated by dietary salt, potassium, and SGK1. American Journal of Physiology - Renal Physiology, 2009, 297, F704-F712. | 2.7 | 225 |
| 13 | A different form of long-lasting potentiation revealed in tissue plasminogen activator mutant mice. Journal of Neuroscience, 1996, 16, 2057-2063. | 3.6 | 204 |
| 14 | The polo-like protein kinases Fnk and Snk associate with a Ca2+- and integrin-binding protein and are regulated dynamically with synaptic plasticity. EMBO Journal, 1999, 18, 5528-5539. | 7.8 | 200 |
| 15 | Impaired renal Na+ retention in the sgk1-knockout mouse. Journal of Clinical Investigation, 2002, 110, 1263-1268. | 8.2 | 196 |
| 16 | Activity-Induced Notch Signaling in Neurons Requires Arc/Arg3.1 and Is Essential for Synaptic Plasticity in Hippocampal Networks. Neuron, 2011, 69, 437-444. | 8.1 | 184 |
| 17 | Arc/Arg3.1 Regulates an Endosomal Pathway Essential for Activity-Dependent Î²-Amyloid Generation. Cell, 2011, 147, 615-628. | 28.9 | 183 |
| 18 | Different pathways mediate virus inducibility of the human IFN-Î±1 and IFN-Î² genes. Cell, 1990, 60, 767-779. | 28.9 | 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. | 7.1 | 165 |
| 20 | Serum- and Glucocorticoid-Inducible Kinase 1 (SGK1) Mediates Glucocorticoid-Induced Inhibition of Insulin Secretion. Diabetes, 2005, 54, 1090-1099. | 0.6 | 155 |
| 21 | Aldosterone-induced Sgk1 relieves Dot1a-Af9â€“mediated transcriptional repression of epithelial Na+ channel Î±. Journal of Clinical Investigation, 2007, 117, 773-783. | 8.2 | 150 |
| 22 | Reversible silencing of enhancers by sequences derived from the human IFN-Î± promoter. Cell, 1987, 50, 1057-1069. | 28.9 | 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. | 1.4 | 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. | 3.6 | 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. | 6.1 | 115 |
| 27 | SGK1 induces vascular smooth muscle cell calcification through NF-ÎºB signaling. Journal of Clinical Investigation, 2018, 128, 3024-3040. | 8.2 | 114 |
| 28 | SGK1-dependent cardiac CTGF formation and fibrosis following DOCA treatment. Journal of Molecular Medicine, 2006, 84, 396-404. | 3.9 | 111 |
| 29 | Activation of serum/glucocorticoidâ€induced kinase 1 (SGK1) is important to maintain skeletal muscle homeostasis and prevent atrophy. EMBO Molecular Medicine, 2013, 5, 80-91. | 6.9 | 100 |
| 30 | Dendritic localization of mRNAs. Current Opinion in Neurobiology, 1998, 8, 600-606. | 4.2 | 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. | 5.2 | 83 |
| 32 | Stimulation of Ca <sup>2+</sup> â€channel Orai1/STIM1 by serumâ€and glucocorticoidâ€inducible kinase 1 (SGK1). FASEB Journal, 2011, 25, 2012-2021. | 0.5 | 82 |
| 33 | A tri-hybrid system for the analysis and detection of RNA–protein interactions. Nucleic Acids Research, 1996, 24, 4838-4840. | 14.5 | 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. | 8.1 | 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. | 2.8 | 75 |
| 36 | BDNF-induced LTP is associated with rapid Arc/Arg3.1-dependent enhancement in adult hippocampal neurogenesis. Scientific Reports, 2016, 6, 21222. | 3.3 | 74 |

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|---|---|---|---|
| 37 | Pim kinase expression is induced by LTP stimulation and required for the consolidation of enduring LTP. EMBO Journal, 1999, 18, 3359-3369. | 7.8 | 72 |
| 38 | SRF binding to SRE 6.9 in the Arc promoter is essential for LTD in cultured Purkinje cells. Nature Neuroscience, 2010, 13, 1082-1089. | 14.8 | 72 |
| 39 | The Kinesin KIF21B Regulates Microtubule Dynamics and Is Essential for Neuronal Morphology, Synapse Function, and Learning and Memory. Cell Reports, 2016, 15, 968-977. | 6.4 | 70 |
| 40 | The three sorCS genes are differentially expressed and regulated by synaptic activity. Journal of Neurochemistry, 2004, 88, 1470-1476. | 3.9 | 66 |
| 41 | SGK1 as a determinant of kidney function and salt intake in response to mineralocorticoid excess. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R395-R401. | 1.8 | 66 |
| 42 | Role of Sgk1 in salt and potassium homeostasis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R4-R10. | 1.8 | 64 |
| 43 | Blunted hypertensive effect of combined fructose and high-salt diet in gene-targeted mice lacking functional serum- and glucocorticoid-inducible kinase SGK1. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R935-R944. | 1.8 | 64 |
| 44 | Adhesion induced expression of the serine/threonine kinase Fnk in human macrophages. Oncogene, 2000, 19, 4832-4839. | 5.9 | 62 |
| 45 | Resistance of mice lacking the serum- and glucocorticoid-inducible kinase SGK1 against salt-sensitive hypertension induced by a high-fat diet. American Journal of Physiology - Renal Physiology, 2006, 291, F1264-F1273. | 2.7 | 62 |
| 46 | Two rat brain Staufen isoforms differentially bind RNA. Journal of Neurochemistry, 2008, 76, 155-165. | 3.9 | 62 |
| 47 | Impaired renal Na+ retention in the sgk1-knockout mouse. Journal of Clinical Investigation, 2002, 110, 1263-1268. | 8.2 | 60 |
| 48 | Serum- and glucocorticoid-regulated kinase 1 is upregulated following unilateral ureteral obstruction causing epithelialâ€“mesenchymal transition. Kidney International, 2010, 78, 668-678. | 5.2 | 58 |
| 49 | Pivotal Role of Serum- and Glucocorticoid-Inducible Kinase 1 in Vascular Inflammation and Atherogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 547-557. | 2.4 | 55 |
| 50 | Intestinal function of gene-targeted mice lacking serum- and glucocorticoid-inducible kinase 1. American Journal of Physiology - Renal Physiology, 2006, 290, G1114-G1123. | 3.4 | 53 |
| 51 | Relative resistance of SGK1 knockout mice against chemical carcinogenesis. IUBMB Life, 2009, 61, 768-776. | 3.4 | 53 |
| 52 | Blunted DOCA/high salt induced albuminuria and renal tubulointerstitial damage in gene-targeted mice lacking SGK1. Journal of Molecular Medicine, 2006, 84, 737-746. | 3.9 | 49 |
| 53 | Profiling the MAPK/ERK dependent and independent activity regulated transcriptional programs in the murine hippocampus in vivo. Scientific Reports, 2017, 7, 45101. | 3.3 | 48 |
| 54 | Sgk1 sensitivity of Na+/H+ exchanger activity and cardiac remodeling following pressure overload. Basic Research in Cardiology, 2012, 107, 236. | 5.9 | 47 |

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|---|---|---|---|
| 55 | Renal function of gene-targeted mice lacking both SGK1 and SGK3. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R945-R950. | 1.8 | 44 |
| 56 | Fluorescent Arc/Arg3.1 indicator mice: A versatile tool to study brain activity changes in vitro and in vivo. Journal of Neuroscience Methods, 2009, 184, 25-36. | 2.5 | 43 |
| 57 | Serum- and Glucocorticoid-Inducible Kinase 1 Mediates Salt Sensitivity of Glucose Tolerance. Diabetes, 2006, 55, 2059-2066. | 0.6 | 41 |
| 58 | Arc/Arg3.1 governs inflammatory dendritic cell migration from the skin and thereby controls T cell activation. Science Immunology, 2016, 1, eaaf8665. | 11.9 | 40 |
| 59 | Different Motifs Regulate Trafficking of SorCS1 Isoforms. Traffic, 2008, 9, 980-994. | 2.7 | 39 |
| 60 | Arc/Arg3.1 mediates a critical period for spatial learning and hippocampal networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12531-12536. | 7.1 | 38 |
| 61 | Genome-Wide Profiling of the Activity-Dependent Hippocampal Transcriptome. PLoS ONE, 2013, 8, e76903. | 2.5 | 38 |
| 62 | Odors regulate Arc expression in neuronal ensembles engaged in odor processing. NeuroReport, 2000, 11, 1809-1813. | 1.2 | 37 |
| 63 | DOCA-induced Phosphorylation of Glycogen Synthase Kinase 3ÃŸ. Cellular Physiology and Biochemistry, 2006, 17, 137-144. | 1.6 | 37 |
| 64 | SGK1 Sensitivity of Platelet Migration. Cellular Physiology and Biochemistry, 2012, 30, 259-268. | 1.6 | 37 |
| 65 | Regulation of the excitatory amino acid transporter EAAT5 by the serum and glucocorticoid dependent kinases SGK1 and SGK3. Biochemical and Biophysical Research Communications, 2005, 329, 738-742. | 2.1 | 34 |
| 66 | SGK1-dependent Intestinal Tumor Growth in APC-deficient Mice. Cellular Physiology and Biochemistry, 2010, 25, 271-278. | 1.6 | 34 |
| 67 | Serum- and Glucocorticoid-Inducible Kinase 1 Sensitive NF-κB Signaling in Dendritic Cells. Cellular Physiology and Biochemistry, 2014, 34, 943-954. | 1.6 | 34 |
| 68 | SGK1-dependent ENaC processing and trafficking in mice with high dietary K intake and elevated aldosterone. American Journal of Physiology - Renal Physiology, 2017, 312, F65-F76. | 2.7 | 33 |
| 69 | Structural Properties of Synaptic Transmission and Temporal Dynamics at Excitatory Layer 5B Synapses in the Adult Rat Somatosensory Cortex. Frontiers in Synaptic Neuroscience, 2018, 10, 24. | 2.5 | 31 |
| 70 | MGluRs regulate the expression of neuronal calcium sensor proteins NCS-1 and VILIP-1 and the immediate early gene arg3.1/arc in the hippocampus in vivo. Biochemical and Biophysical Research Communications, 2004, 322, 1073-1079. | 2.1 | 29 |
| 71 | Role of the serum and glucocorticoid inducible kinase SGK1 in glucocorticoid stimulation of gastric acid secretion. Pflugers Archiv European Journal of Physiology, 2007, 455, 493-503. | 2.8 | 29 |
| 72 | SGK1-sensitive renal tubular glucose reabsorption in diabetes. American Journal of Physiology - Renal Physiology, 2009, 296, F859-F866. | 2.7 | 29 |

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|---|---|---|---|
| 73 | Impaired Mast Cell Activation in Gene-Targeted Mice Lacking the Serum- and Glucocorticoid-Inducible Kinase SGK1. Journal of Immunology, 2009, 183, 4395-4402. | 0.8 | 29 |
| 74 | The N-terminus of the serum- and glucocorticoid-inducible kinase Sgk1 specifies mitochondrial localization and rapid turnover. Biochemical Journal, 2006, 399, 69-76. | 3.7 | 28 |
| 75 | Lack of the serum and glucocorticoid-inducible kinase SGK1 attenuates the volume retention after treatment with the PPARÎ³ agonist pioglitazone. Pflugers Archiv European Journal of Physiology, 2008, 456, 425-436. | 2.8 | 28 |
| 76 | Role of maternal glucocorticoid inducible kinase SGK1 in fetal programming of blood pressure in response to prenatal diet. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R2008-R2013. | 1.8 | 28 |
| 77 | Dexamethasone increases Na+/K+ ATPase activity in insulin secreting cells through SGK1. Biochemical and Biophysical Research Communications, 2007, 352, 662-667. | 2.1 | 25 |
| 78 | The Serum and Glucocorticoid-Regulated Kinase 1 in Hypoxic Renal Injury. Cellular Physiology and Biochemistry, 2009, 24, 577-584. | 1.6 | 24 |
| 79 | Revisiting the neuronal localization and trafficking of <scp>CLN</scp>3 in juvenile neuronal ceroid lipofuscinosis. Journal of Neurochemistry, 2016, 139, 456-470. | 3.9 | 24 |
| 80 | Hyperaldosteronism, hypervolemia, and increased blood pressure in mice expressing defective APC. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R571-R575. | 1.8 | 23 |
| 81 | Neuronal activity-regulated alternative mRNA splicing. International Journal of Biochemistry and Cell Biology, 2017, 91, 184-193. | 2.8 | 23 |
| 82 | Nociceptive Stimulation Induces Expression of Arc/Arg3.1 in the Spinal Cord with a Preference for Neurons Containing Enkephalin. Molecular Pain, 2010, 6, 1744-8069-6-43. | 2.1 | 21 |
| 83 | Sor<scp>CS</scp>1 variants and amyloid precursor protein (<scp>APP</scp>) are coâ€transported in neurons but only Sor<scp>CS</scp>1c modulates anterograde <scp>APP</scp> transport. Journal of Neurochemistry, 2015, 135, 60-75. | 3.9 | 20 |
| 84 | Role of Serum- and Glucocorticoid-Inducible Kinase SGK1 in Glucocorticoid Regulation of Renal Electrolyte Excretion and Blood Pressure. Kidney and Blood Pressure Research, 2008, 31, 280-289. | 2.0 | 19 |
| 85 | Renal Ca2+ handling in sgk1 knockout mice. Pflugers Archiv European Journal of Physiology, 2006, 452, 444-452. | 2.8 | 17 |
| 86 | SGK1 is not required for regulation of colonic ENaC activity. Pflugers Archiv European Journal of Physiology, 2006, 453, 97-105. | 2.8 | 17 |
| 87 | Lack of the serum- and glucocorticoid-inducible kinase SGK1 improves muscle force characteristics and attenuates fibrosis in dystrophic mdx mouse muscle. Pflugers Archiv European Journal of Physiology, 2015, 467, 1965-1974. | 2.8 | 17 |
| 88 | SGK1-Dependent Upregulation of Connective Tissue Growth Factor by Angiotensin II. Kidney and Blood Pressure Research, 2008, 31, 80-86. | 2.0 | 16 |
| 89 | SGK1 dependence of insulin induced hypokalemia. Pflugers Archiv European Journal of Physiology, 2009, 457, 955-961. | 2.8 | 16 |
| 90 | Pioglitazone Induced Gastric Acid Secretion. Cellular Physiology and Biochemistry, 2009, 24, 193-200. | 1.6 | 14 |

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| 91 | Stimulation of electrogenic intestinal dipeptide transport by the glucocorticoid dexamethasone. Pflugers Archiv European Journal of Physiology, 2009, 459, 191-202. | 2.8 | 14 |
| 92 | Cognitive impairment and autistic-like behaviour in SAPAP4-deficient mice. Translational Psychiatry, 2019, 9, 7. | 4.8 | 13 |
| 93 | Amyloidosis causes downregulation of SorLA, SorCS1 and SorCS3 expression in mice. Biological Chemistry, 2019, 400, 1181-1189. | 2.5 | 13 |
| 94 | Converging roles of PSENEN/PEN2 and CLN3 in the autophagy-lysosome system. Autophagy, 2022, 18, 2068-2085. | 9.1 | 12 |
| 95 | Deranged Kv channel regulation in fibroblasts from mice lacking the serum and glucocorticoid inducible kinase SGK1. Journal of Cellular Physiology, 2005, 204, 87-98. | 4.1 | 11 |
| 96 | SGK1-dependent stimulation of intestinal SGLT1 activity by vitamin D. Pflugers Archiv European Journal of Physiology, 2011, 462, 489-494. | 2.8 | 11 |
| 97 | Disturbed Prefrontal Cortex Activity in the Absence of Schizophrenia-Like Behavioral Dysfunction in Arc/Arg3.1 Deficient Mice. Journal of Neuroscience, 2019, 39, 8149-8163. | 3.6 | 11 |
| 98 | SGK1 up-regulates Orai1 expression and VSMC migration during neointima formation after arterial injury. Thrombosis and Haemostasis, 2017, 117, 1002-1005. | 3.4 | 10 |
| 99 | Effects of Arc/Arg3.1 gene deletion on rhythmic synchronization of hippocampal CA1 neurons during locomotor activity and sleep. Neurobiology of Learning and Memory, 2016, 131, 155-165. | 1.9 | 9 |
| 100 | A subtractive hybridisation method for the enrichment of moderately induced sequences. Nucleic Acids Research, 1998, 26, 1359-1361. | 14.5 | 8 |
| 101 | Neuronal activity regulates alternative exon usage. Molecular Brain, 2020, 13, 148. | 2.6 | 7 |
| 102 | Induction of Glycerol Phosphate Dehydrogenase Gene Expression During Seizure and Analgesia. Journal of Neurochemistry, 2002, 75, 1419-1428. | 3.9 | 6 |
| 103 | The adaptor protein PICK1 targets the sorting receptor SorLA. Molecular Brain, 2022, 15, 18. | 2.6 | 3 |
| 104 | TMIC-20. INHIBITION OF SLC7A11 REDUCES EXCITATORY SYNAPTIC INPUT OF PERITUMORAL NEURONS IN GLIOMA PATIENTS. Neuro-Oncology, 2017, 19, vi247-vi247. | 1.2 | 0 |