Bernhard Schermer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	MAGED2 controls vasopressin-induced aquaporin-2 expression in collecting duct cells. Journal of Proteomics, 2022, 252, 104424.	2.4	1
2	Super-Resolution Imaging of the Filtration Barrier Suggests a Role for Podocin R229Q in Genetic Predisposition to Glomerular Disease. Journal of the American Society of Nephrology: JASN, 2022, 33, 138-154.	6.1	7
3	Three-Dimensional Super-Resolved Imaging of Paraffin-Embedded Kidney Samples. Kidney360, 2022, 3, 446-454.	2.1	7
4	A systematic analysis of diet-induced nephroprotection reveals overlapping changes in cysteine catabolism. Translational Research, 2022, 244, 32-46.	5.0	4
5	GFPT2/GFAT2 and AMDHD2 act in tandem to control the hexosamine pathway. ELife, 2022, 11, .	6.0	18
6	Scaffold polarity proteins Par3A and Par3B share redundant functions while Par3B acts independent of atypical protein kinase C/Par6 in podocytes to maintain the kidney filtration barrier. Kidney International, 2022, 101, 733-751.	5.2	7
7	Caloric restriction reduces the pro-inflammatory eicosanoid 20-hydroxyeicosatetraenoic acid to protect from acute kidney injury. Kidney International, 2022, 102, 560-576.	5.2	4
8	A fast and simple clearing and swelling protocol for 3D in-situ imaging of the kidney across scales. Kidney International, 2021, 99, 1010-1020.	5.2	18
9	Targeted deletion of Ruvbl1 results in severe defects of epidermal development and perinatal mortality. Molecular and Cellular Pediatrics, 2021, 8, 1.	1.8	3
10	CALINCA—A Novel Pipeline for the Identification of IncRNAs in Podocyte Disease. Cells, 2021, 10, 692.	4.1	2
11	Single-cell RNA sequencing reveals the mesangial identity and species diversity of glomerular cell transcriptomes. Nature Communications, 2021, 12, 2141.	12.8	55
12	Modulation of Endocannabinoids by Caloric Restriction Is Conserved in Mice but Is Not Required for Protection from Acute Kidney Injury. International Journal of Molecular Sciences, 2021, 22, 5485.	4.1	2
13	Expanding the Spectrum of FAT1 Nephropathies by Novel Mutations That Affect Hippo Signaling. Kidney International Reports, 2021, 6, 1368-1378.	0.8	7
14	A mathematical estimation of the physical forces driving podocyte detachment. Kidney International, 2021, 100, 1054-1062.	5.2	8
15	The Atypical Cyclin-Dependent Kinase 5 (Cdk5) Guards Podocytes from Apoptosis in Glomerular Disease While Being Dispensable for Podocyte Development. Cells, 2021, 10, 2464.	4.1	7
16	mTOR-Activating Mutations in RRAGD Are Causative for Kidney Tubulopathy and Cardiomyopathy. Journal of the American Society of Nephrology: JASN, 2021, 32, 2885-2899.	6.1	24
17	Hippo signaling—a central player in cystic kidney disease?. Pediatric Nephrology, 2020, 35, 1143-1152.	1.7	15
18	The proteomic landscape of small urinary extracellular vesicles during kidney transplantation. Journal of Extracellular Vesicles, 2020, 10, e12026.	12.2	30

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19	The carboxyâ€terminus of the human ARPKD protein fibrocystin can control STAT3 signalling by regulating SRCâ€activation. Journal of Cellular and Molecular Medicine, 2020, 24, 14633-14638.	3.6	10
20	A molecular mechanism explaining albuminuria in kidney disease. Nature Metabolism, 2020, 2, 461-474.	11.9	99
21	The Integrated RNA Landscape of Renal Preconditioning against Ischemia-Reperfusion Injury. Journal of the American Society of Nephrology: JASN, 2020, 31, 716-730.	6.1	26
22	Affinity-Enhanced Multimeric VEGF (Vascular Endothelial Growth Factor) and PIGF (Placental Growth) Tj ETQq0 (Hypertension, 2020, 76, 1176-1184.	0 0 rgBT /0 2.7	Overlock 10 Tf 14
23	Injured Podocytes Are Sensitized to Angiotensin Il–Induced Calcium Signaling. Journal of the American Society of Nephrology: JASN, 2020, 31, 532-542.	6.1	23
24	Proteome Analysis of Isolated Podocytes Reveals Stress Responses in Glomerular Sclerosis. Journal of the American Society of Nephrology: JASN, 2020, 31, 544-559.	6.1	23
25	Rapid SARS-CoV-2 testing in primary material based on a novel multiplex RT-LAMP assay. PLoS ONE, 2020, 15, e0238612.	2.5	58
26	A protein-RNA interaction atlas of the ribosome biogenesis factor AATF. Scientific Reports, 2019, 9, 11071.	3.3	19
27	Anaerobic Glycolysis Maintains the Glomerular Filtration Barrier Independent of Mitochondrial Metabolism and Dynamics. Cell Reports, 2019, 27, 1551-1566.e5.	6.4	106
28	The RNA-Protein Interactome of Differentiated Kidney Tubular Epithelial Cells. Journal of the American Society of Nephrology: JASN, 2019, 30, 564-576.	6.1	16
29	Inactivation of Apoptosis Antagonizing Transcription Factor in tubular epithelial cells induces accumulation of DNA damage and nephronophthisis. Kidney International, 2019, 95, 846-858.	5.2	13
30	Activation of Hypoxia-Inducible Factor Signaling Modulates the RNA Protein Interactome in Caenorhabditis elegans. IScience, 2019, 22, 466-476.	4.1	5
31	The proteome microenvironment determines the protective effect of preconditioning in cisplatin-induced acute kidney injury. Kidney International, 2019, 95, 333-349.	5.2	55
32	Enzyme Replacement Therapy Clears Gb3 Deposits from a Podocyte Cell Culture Model of Fabry Disease but Fails to Restore Altered Cellular Signaling. Cellular Physiology and Biochemistry, 2019, 52, 1139-1150.	1.6	28
33	AATF suppresses apoptosis, promotes proliferation and is critical for Kras-driven lung cancer. Oncogene, 2018, 37, 1503-1518.	5.9	26
34	Single-nephron proteomes connect morphology and function in proteinuric kidney disease. Kidney International, 2018, 93, 1308-1319.	5.2	49
35	Preoperative Shortâ€Term Calorie Restriction for Prevention of Acute Kidney Injury After Cardiac Surgery: A Randomized, Controlled, Openâ€Label, Pilot Trial. Journal of the American Heart Association, 2018, 7, .	3.7	26
36	Prolineâ€dependent and basophilic kinases phosphorylate human TRPC6 at serine 14 to control channel activity through increased membrane expression. FASEB Journal, 2018, 32, 208-219.	0.5	6

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37	Neph2/Kirrel3 regulates sensory input, motor coordination, and home age activity in rodents. Genes, Brain and Behavior, 2018, 17, e12516.	2.2	17
38	A Multi-layered Quantitative InÂVivo Expression Atlas of the Podocyte Unravels Kidney Disease Candidate Genes. Cell Reports, 2018, 23, 2495-2508.	6.4	81
39	A Single-Cell Transcriptome Atlas of the Mouse Glomerulus. Journal of the American Society of Nephrology: JASN, 2018, 29, 2060-2068.	6.1	137
40	Targeted deletion of the AAA-ATPase Ruvbl1 in mice disrupts ciliary integrity and causes renal disease and hydrocephalus. Experimental and Molecular Medicine, 2018, 50, 1-17.	7.7	22
41	Network for Early Onset Cystic Kidney Diseases—A Comprehensive Multidisciplinary Approach to Hereditary Cystic Kidney Diseases in Childhood. Frontiers in Pediatrics, 2018, 6, 24.	1.9	19
42	Urine-derived cells: a promising diagnostic tool in Fabry disease patients. Scientific Reports, 2018, 8, 11042.	3.3	22
43	An optimized electroporation approach for efficient CRISPR/Cas9 genome editing in murine zygotes. PLoS ONE, 2018, 13, e0196891.	2.5	74
44	Protein halfâ€life determines expression of proteostatic networks in podocyte differentiation. FASEB Journal, 2018, 32, 4696-4713.	0.5	15
45	Krüppel-like Factor 4 (Klf4) in human and mouse lung development: Regulation of ATII Cell Homeostasis in Lungs of Newborn Mice Exposed to HYX. , 2018, , .		1
46	Construction of a viral T2A-peptide based knock-in mouse model for enhanced Cre recombinase activity and fluorescent labeling of podocytes. Kidney International, 2017, 91, 1510-1517.	5.2	9
47	YAP-mediated mechanotransduction determines the podocyte's response to damage. Science Signaling, 2017, 10, .	3.6	61
48	Challenges in establishing genotype–phenotype correlations in ARPKD: case report on a toddler with two severe PKHD1 mutations. Pediatric Nephrology, 2017, 32, 1269-1273.	1.7	16
49	N-Degradomic Analysis Reveals a Proteolytic Network Processing the Podocyte Cytoskeleton. Journal of the American Society of Nephrology: JASN, 2017, 28, 2867-2878.	6.1	41
50	The ciliary membraneâ€associated proteome reveals actinâ€binding proteins as key components of cilia. EMBO Reports, 2017, 18, 1521-1535.	4.5	119
51	Magnetic resonance T2 mapping and diffusion-weighted imaging for early detection of cystogenesis and response to therapy in a mouse model of polycystic kidney disease. Kidney International, 2017, 92, 1544-1554.	5.2	24
52	Characterization of a splice-site mutation in the tumor suppressor gene FLCN associated with renal cancer. BMC Medical Genetics, 2017, 18, 53.	2.1	13
53	Par3A is dispensable for the function of the glomerular filtration barrier of the kidney. American Journal of Physiology - Renal Physiology, 2016, 311, F112-F119.	2.7	10
54	Quantitative deep mapping of the cultured podocyte proteome uncovers shifts in proteostatic mechanisms during differentiation. American Journal of Physiology - Cell Physiology, 2016, 311, C404-C417.	4.6	31

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55	Endothelial cilia protect against atherosclerosis. EMBO Reports, 2016, 17, 125-126.	4.5	2
56	Cysteine S-Glutathionylation Promotes Stability and Activation of the Hippo Downstream Effector Transcriptional Co-activator with PDZ-binding Motif (TAZ). Journal of Biological Chemistry, 2016, 291, 11596-11607.	3.4	28
57	Prohibitin-2 Depletion Unravels Extra-Mitochondrial Functions at the Kidney Filtration Barrier. American Journal of Pathology, 2016, 186, 1128-1139.	3.8	12
58	Single and Transient Ca2+ Peaks in Podocytes do not induce Changes in Glomerular Filtration and Perfusion. Scientific Reports, 2016, 6, 35400.	3.3	12
59	Mice lacking microRNAs in Pax8-expressing cells develop hypothyroidism and end-stage renal failure. BMC Molecular Biology, 2016, 17, 11.	3.0	14
60	The ubiquitin ligase Ubr4 controls stability of podocin/MEC-2 supercomplexes. Human Molecular Genetics, 2016, 25, 1328-1344.	2.9	45
61	Jade-1S phosphorylation induced by CK1α contributes to cell cycle progression. Cell Cycle, 2016, 15, 1034-1045.	2.6	9
62	Three-layered proteomic characterization of a novel <i>ACTN4</i> mutation unravels its pathogenic potential in FSGS. Human Molecular Genetics, 2016, 25, 1152-1164.	2.9	36
63	Oral Supplementation of Glucosamine Fails to Alleviate Acute Kidney Injury in Renal Ischemia-Reperfusion Damage. PLoS ONE, 2016, 11, e0161315.	2.5	9
64	Altered lipid metabolism in the aging kidney identified by three layered omic analysis. Aging, 2016, 8, 441-454.	3.1	46
65	Inhibition of insulin/ <scp>IGF</scp> â€l receptor signaling protects from mitochondriaâ€mediated kidneyÂfailure. EMBO Molecular Medicine, 2015, 7, 275-287.	6.9	61
66	Genome-Wide Analysis of Wilms' Tumor 1-Controlled Gene Expression in Podocytes Reveals Key Regulatory Mechanisms. Journal of the American Society of Nephrology: JASN, 2015, 26, 2097-2104.	6.1	97
67	WT1 targets <i>Gas1</i> to maintain nephron progenitor cells by modulating FGF signals. Development (Cambridge), 2015, 142, 1254-1266.	2.5	42
68	Loss of Dgcr8-mediated microRNA expression in the kidney results in hydronephrosis and renal malformation. BMC Nephrology, 2015, 16, 55.	1.8	21
69	The NF-κB essential modulator (NEMO) controls podocyte cytoskeletal dynamics independently of NF-κB. American Journal of Physiology - Renal Physiology, 2015, 309, F617-F626.	2.7	7
70	Comparative phosphoproteomic analysis of mammalian glomeruli reveals conserved podocin C-terminal phosphorylation as a determinant of slit diaphragm complex architecture. Proteomics, 2015, 15, 1326-1331.	2.2	21
71	Low-Molecular Weight Heparin Increases Circulating sFlt-1 Levels and Enhances Urinary Elimination. PLoS ONE, 2014, 9, e85258.	2.5	31
72	Casein Kinase 1 α Phosphorylates the Wnt Regulator Jade-1 and Modulates Its Activity. Journal of Biological Chemistry, 2014, 289, 26344-26356.	3.4	19

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73	The Cleaved Cytoplasmic Tail of Polycystin-1 Regulates Src-Dependent STAT3 Activation. Journal of the American Society of Nephrology: JASN, 2014, 25, 1737-1748.	6.1	61
74	DAF-16/FOXO and EGL-27/GATA promote developmental growth in response to persistent somatic DNA damage. Nature Cell Biology, 2014, 16, 1168-1179.	10.3	97
75	Phosphoproteomic Analysis Reveals Regulatory Mechanisms at the Kidney Filtration Barrier. Journal of the American Society of Nephrology: JASN, 2014, 25, 1509-1522.	6.1	40
76	An approach to cystic kidney diseases: the clinician's view. Nature Reviews Nephrology, 2014, 10, 687-699.	9.6	17
77	Label-free quantitative proteomic analysis of the YAP/TAZ interactome. American Journal of Physiology - Cell Physiology, 2014, 306, C805-C818.	4.6	59
78	Vasopressin-2 Receptor Signaling and Autosomal Dominant Polycystic Kidney Disease. Journal of the American Society of Nephrology: JASN, 2014, 25, 1140-1147.	6.1	33
79	Breaking the chain at the membrane: paraoxonase 2 counteracts lipid peroxidation at the plasma membrane. FASEB Journal, 2014, 28, 1769-1779.	0.5	57
80	A Disease-causing Mutation Illuminates the Protein Membrane Topology of the Kidney-expressed Prohibitin Homology (PHB) Domain Protein Podocin. Journal of Biological Chemistry, 2014, 289, 11262-11271.	3.4	16
81	Conditional loss of kidney microRNAs results in congenital anomalies of the kidney and urinary tract (CAKUT). Journal of Molecular Medicine, 2013, 91, 739-748.	3.9	37
82	Characterization of a short isoform of the kidney protein podocin in human kidney. BMC Nephrology, 2013, 14, 102.	1.8	18
83	Tracking the fate of glomerular epithelial cells in vivo using serial multiphoton imaging in new mouse models with fluorescent lineage tags. Nature Medicine, 2013, 19, 1661-1666.	30.7	143
84	Transcriptional profiling reveals progeroid Ercc1 اَلَّ mice as a model system for glomerular aging. BMC Genomics, 2013, 14, 559.	2.8	15
85	Light Microscopic Visualization of Podocyte Ultrastructure Demonstrates Oscillating Glomerular Contractions. American Journal of Pathology, 2013, 182, 332-338.	3.8	40
86	Mutations in NEK8 link multiple organ dysplasia with altered Hippo signalling and increased c-MYC expression. Human Molecular Genetics, 2013, 22, 2177-2185.	2.9	84
87	Loss of the <scp>B</scp> irt– <scp>H</scp> ogg– <scp>D</scp> ubé gene product folliculin induces longevity in a hypoxiaâ€inducible factor–dependent manner. Aging Cell, 2013, 12, 593-603.	6.7	12
88	Dysregulated Autophagy Contributes to Podocyte Damage in Fabry's Disease. PLoS ONE, 2013, 8, e63506.	2.5	97
89	Intrinsic proinflammatory signaling in podocytes contributes to podocyte damage and prolonged proteinuria. American Journal of Physiology - Renal Physiology, 2012, 303, F1473-F1485.	2.7	63
90	Clinical spectrum and pathogenesis of nephronophthisis. Current Opinion in Nephrology and Hypertension, 2012, 21, 272-278.	2.0	38

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91	The ciliopathy disease protein NPHP9 promotes nuclear delivery and activation of the oncogenic transcriptional regulator TAZ. Human Molecular Genetics, 2012, 21, 5528-5538.	2.9	69
92	The Ciliary Protein Nephrocystin-4 Translocates the Canonical Wnt Regulator Jade-1 to the Nucleus to Negatively Regulate β-Catenin Signaling. Journal of Biological Chemistry, 2012, 287, 25370-25380.	3.4	49
93	Putting the brakes on p53-driven apoptosis. Cell Cycle, 2012, 11, 4122-4128.	2.6	20
94	Exome Capture Reveals ZNF423 and CEP164 Mutations, Linking Renal Ciliopathies to DNA Damage Response Signaling. Cell, 2012, 150, 533-548.	28.9	347
95	AATF/Che-1 acts as a phosphorylation-dependent molecular modulator to repress p53-driven apoptosis. EMBO Journal, 2012, 31, 3961-3975.	7.8	53
96	The Centrosomal Kinase Plk1 Localizes to the Transition Zone of Primary Cilia and Induces Phosphorylation of Nephrocystin-1. PLoS ONE, 2012, 7, e38838.	2.5	44
97	Comparative analysis of Neph gene expression in mouse and chicken development. Histochemistry and Cell Biology, 2012, 137, 355-366.	1.7	29
98	Repression of the genome organizer SATB1 in regulatory T cells is required for suppressive function and inhibition of effector differentiation. Nature Immunology, 2011, 12, 898-907.	14.5	179
99	Mutations in KIF7 link Joubert syndrome with Sonic Hedgehog signaling and microtubule dynamics. Journal of Clinical Investigation, 2011, 121, 2662-2667.	8.2	173
100	The BAR Domain Protein PICK1 Regulates Cell Recognition and Morphogenesis by Interacting with Neph Proteins. Molecular and Cellular Biology, 2011, 31, 3241-3251.	2.3	14
101	NPHP4, a cilia-associated protein, negatively regulates the Hippo pathway. Journal of Cell Biology, 2011, 193, 633-642.	5.2	142
102	Nephrocystin-4 Regulates Pyk2-induced Tyrosine Phosphorylation of Nephrocystin-1 to Control Targeting to Monocilia. Journal of Biological Chemistry, 2011, 286, 14237-14245.	3.4	22
103	Transition zone proteins and cilia dynamics. Nature Genetics, 2011, 43, 723-724.	21.4	19
104	PDZD7 is a modifier of retinal disease and a contributor to digenic Usher syndrome. Journal of Clinical Investigation, 2011, 121, 821-821.	8.2	3
105	Listeria monocytogenes Infection in Macrophages Induces Vacuolar-Dependent Host miRNA Response. PLoS ONE, 2011, 6, e27435.	2.5	90
106	p35, the non-cyclin activator of Cdk5, protects podocytes against apoptosis in vitro and in vivo. Kidney International, 2010, 77, 690-699.	5.2	33
107	PDZD7 is a modifier of retinal disease and a contributor to digenic Usher syndrome. Journal of Clinical Investigation, 2010, 120, 1812-1823.	8.2	203
108	The von Hippel Lindau Tumor Suppressor Limits Longevity. Journal of the American Society of Nephrology: JASN, 2009, 20, 2513-2517.	6.1	45

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109	Lipid–Protein Interactions along the Slit Diaphragm of Podocytes. Journal of the American Society of Nephrology: JASN, 2009, 20, 473-478.	6.1	55
110	Discovery of microvascular miRNAs using public gene expression data: miR-145 is expressed in pericytes and is a regulator of Fli1. Genome Medicine, 2009, 1, 108.	8.2	82
111	Loss of Nephrocystin-3 Function Can Cause Embryonic Lethality,ÂMeckel-Gruber-like Syndrome, Situs Inversus, and Renal-Hepatic-Pancreatic Dysplasia. American Journal of Human Genetics, 2008, 82, 959-970.	6.2	294
112	KIBRA Modulates Directional Migration of Podocytes. Journal of the American Society of Nephrology: JASN, 2008, 19, 1891-1903.	6.1	112
113	Podocyte-Specific Deletion of Dicer Alters Cytoskeletal Dynamics and Causes Glomerular Disease. Journal of the American Society of Nephrology: JASN, 2008, 19, 2150-2158.	6.1	300
114	Neph-Nephrin Proteins Bind the Par3-Par6-Atypical Protein Kinase C (aPKC) Complex to Regulate Podocyte Cell Polarity. Journal of Biological Chemistry, 2008, 283, 23033-23038.	3.4	97
115	Extracellular Phosphorylation of Collagen XVII by Ecto-Casein Kinase 2 Inhibits Ectodomain Shedding. Journal of Biological Chemistry, 2007, 282, 22737-22746.	3.4	48
116	Podocin Organizes Ion Channel-Lipid Supercomplexes: Implications for Mechanosensation at the Slit Diaphragm. Nephron Experimental Nephrology, 2007, 106, e27-e31.	2.2	81
117	A Mammalian microRNA Expression Atlas Based on Small RNA Library Sequencing. Cell, 2007, 129, 1401-1414.	28.9	3,390
118	Nephrocystin Specifically Localizes to the Transition Zone of Renal and Respiratory Cilia and Photoreceptor Connecting Cilia. Journal of the American Society of Nephrology: JASN, 2006, 17, 2424-2433.	6.1	133
119	Podocin and MEC-2 bind cholesterol to regulate the activity of associated ion channels. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17079-17086.	7.1	262
120	The von Hippel-Lindau tumor suppressor protein controls ciliogenesis by orienting microtubule growth. Journal of Cell Biology, 2006, 175, 547-554.	5.2	165
121	Inversin, the gene product mutated in nephronophthisis type II, functions as a molecular switch between Wnt signaling pathways. Nature Genetics, 2005, 37, 537-543.	21.4	680
122	Trafficking of TRPP2 by PACS proteins represents a novel mechanism of ion channel regulation. EMBO Journal, 2005, 24, 705-716.	7.8	237
123	Phosphorylation by casein kinase 2 induces PACS-1 binding of nephrocystin and targeting to cilia. EMBO Journal, 2005, 24, 4415-4424.	7.8	92
124	Mutations in a novel gene, NPHP3, cause adolescent nephronophthisis, tapeto-retinal degeneration and hepatic fibrosis. Nature Genetics, 2003, 34, 455-459.	21.4	345
125	Mutations in INVS encoding inversin cause nephronophthisis type 2, linking renal cystic disease to the function of primary cilia and left-right axis determination. Nature Genetics, 2003, 34, 413-420.	21.4	582
126	Nephrin and CD2AP Associate with Phosphoinositide 3-OH Kinase and Stimulate AKT-Dependent Signaling. Molecular and Cellular Biology, 2003, 23, 4917-4928.	2.3	348

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127	The Carboxyl Terminus of Neph Family Members Binds to the PDZ Domain Protein Zonula Occludens-1. Journal of Biological Chemistry, 2003, 278, 13417-13421.	3.4	112
128	Interaction of 14-3-3 Protein with Regulator of G Protein Signaling 7 Is Dynamically Regulated by Tumor Necrosis Factor-α. Journal of Biological Chemistry, 2002, 277, 32954-32962.	3.4	51
129	14-3-3 Interacts with Regulator of G Protein Signaling Proteins and Modulates Their Activity. Journal of Biological Chemistry, 2000, 275, 28167-28172.	3.4	104
130	Upregulation of RGS7 may contribute to tumor necrosis factor-induced changes in central nervous function. Nature Medicine, 1999, 5, 913-918.	30.7	71
131	Inhibition of the production of endothelium-derived hyperpolarizing factor by cannabinoid receptor agonists. British Journal of Pharmacology, 1999, 126, 949-960.	5.4	58