Markus M Rinschen

List of Publications by Year
in descending order

78 papers	3,259 citations	186209 28 h-index	175177 52 g-index
83 all docs	83 docs citations	83 times ranked	4641 citing authors

#	Article	IF	Citations
1	Identification of bioactive metabolites using activity metabolomics. Nature Reviews Molecular Cell Biology, 2019, 20, 353-367.	16.1	602
2	Quantitative phosphoproteomic analysis reveals vasopressin V2-receptorâ€"dependent signaling pathways in renal collecting duct cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3882-3887.	3.3	155
3	Polyhydramnios, Transient Antenatal Bartterâ€™s Syndrome, and<i>MAGED2</i>Mutations. New England Journal of Medicine, 2016, 374, 1853-1863.	13.9	148
4	A Single-Cell Transcriptome Atlas of the Mouse Glomerulus. Journal of the American Society of Nephrology: JASN, 2018, 29, 2060-2068.	3.0	137
5	The ciliary membraneâ€associated proteome reveals actinâ€binding proteins as key components of cilia. EMBO Reports, 2017, 18, 1521-1535.	2.0	119
6	Systems-level analysis of cell-specific <i>AQP2</i> gene expression in renal collecting duct. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2441-2446.	3.3	117
7	Quantitative phosphoproteomic analysis reveals cAMP/vasopressin-dependent signaling pathways in native renal thick ascending limb cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15653-15658.	3.3	107
8	A molecular mechanism explaining albuminuria in kidney disease. Nature Metabolism, 2020, 2, 461-474.	5.1	99
9	A Multi-layered Quantitative InÂVivo Expression Atlas of the Podocyte Unravels Kidney Disease Candidate Genes. Cell Reports, 2018, 23, 2495-2508.	2.9	81
10	mTOR Regulates Endocytosis and Nutrient Transport in Proximal Tubular Cells. Journal of the American Society of Nephrology: JASN, 2017, 28, 230-241.	3.0	79
11	A flexible, multilayered protein scaffold maintains the slit in between glomerular podocytes. JCI Insight, 2016, 1, .	2.3	69
12	The Cleaved Cytoplasmic Tail of Polycystin-1 Regulates Src-Dependent STAT3 Activation. Journal of the American Society of Nephrology: JASN, 2014, 25, 1737-1748.	3.0	61
13	YAP-mediated mechanotransduction determines the podocyteâ€™s response to damage. Science Signaling, 2017, 10, .	1.6	61
14	Label-free quantitative proteomic analysis of the YAP/TAZ interactome. American Journal of Physiology - Cell Physiology, 2014, 306, C805-C818.	2.1	59
15	Big science and big data in nephrology. Kidney International, 2019, 95, 1326-1337.	2.6	56
16	The proteome microenvironment determines the protective effect of preconditioning in cisplatin-induced acute kidney injury. Kidney International, 2019, 95, 333-349.	2.6	55
17	Quantitative Proteomics Identifies Vasopressin-Responsive Nuclear Proteins in Collecting Duct Cells. Journal of the American Society of Nephrology: JASN, 2012, 23, 1008-1018.	3.0	50
18	Single-nephron proteomes connect morphology and function in proteinuric kidney disease. Kidney International, 2018, 93, 1308-1319.	2.6	49

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19	Altered lipid metabolism in the aging kidney identified by three layered omic analysis. Aging, 2016, 8, 441-454.	1.4	46
20	The ubiquitin ligase Ubr4 controls stability of podocin/MEC-2 supercomplexes. Human Molecular Genetics, 2016, 25, 1328-1344.	1.4	45
21	WT1 targets<i>Gas1</i>to maintain nephron progenitor cells by modulating FGF signals. Development (Cambridge), 2015, 142, 1254-1266.	1.2	42
22	Enhanced in-Source Fragmentation Annotation Enables Novel Data Independent Acquisition and Autonomous METLIN Molecular Identification. Analytical Chemistry, 2020, 92, 6051-6059.	3.2	42
23	N-Degradomic Analysis Reveals a Proteolytic Network Processing the Podocyte Cytoskeleton. Journal of the American Society of Nephrology: JASN, 2017, 28, 2867-2878.	3.0	41
24	Phosphoproteomic Analysis Reveals Regulatory Mechanisms at the Kidney Filtration Barrier. Journal of the American Society of Nephrology: JASN, 2014, 25, 1509-1522.	3.0	40
25	Metabolic rewiring of the hypertensive kidney. Science Signaling, 2019, 12, .	1.6	40
26	Bevacizumab-associated glomerular microangiopathy. Modern Pathology, 2019, 32, 684-700.	2.9	37
27	Three-layered proteomic characterization of a novel<i>ACTN4</i>mutation unravels its pathogenic potential in FSGS. Human Molecular Genetics, 2016, 25, 1152-1164.	1.4	36
28	Ubiquitin C-terminal hydrolase L1 (UCH-L1) loss causes neurodegeneration by altering protein turnover in the first postnatal weeks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7963-7972.	3.3	36
29	Vasopressin-2 Receptor Signaling and Autosomal Dominant Polycystic Kidney Disease. Journal of the American Society of Nephrology: JASN, 2014, 25, 1140-1147.	3.0	33
30	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.	2.1	31
31	The tissue proteome in the multi-omic landscape of kidney disease. Nature Reviews Nephrology, 2021, 17, 205-219.	4.1	31
32	The proteomic landscape of small urinary extracellular vesicles during kidney transplantation. Journal of Extracellular Vesicles, 2020, 10, e12026.	5.5	30
33	Vasopressin increases phosphorylation of Ser84 and Ser486 in Slc14a2 collecting duct urea transporters. American Journal of Physiology - Renal Physiology, 2010, 299, F559-F567.	1.3	28
34	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.	1.6	28
35	Maintaining proteostasis under mechanical stress. EMBO Reports, 2021, 22, e52507.	2.0	28
36	From Molecules to Mechanisms: Functional Proteomics and Its Application to Renal Tubule Physiology. Physiological Reviews, 2018, 98, 2571-2606.	13.1	27

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37	PKAâ€independent vasopressin signaling in renal collecting duct. FASEB Journal, 2020, 34, 6129-6146.	0.2	24
38	Injured Podocytes Are Sensitized to Angiotensin IIâ€"Induced Calcium Signaling. Journal of the American Society of Nephrology: JASN, 2020, 31, 532-542.	3.0	23
39	Proteome Analysis of Isolated Podocytes Reveals Stress Responses in Glomerular Sclerosis. Journal of the American Society of Nephrology: JASN, 2020, 31, 544-559.	3.0	23
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.	3.2	22
41	Urine-derived cells: a promising diagnostic tool in Fabry disease patients. Scientific Reports, 2018, 8, 11042.	1.6	22
42	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.	1.3	21
43	Mechanism suppressing H3K9 trimethylation in pluripotent stem cells and its demise by polyQ-expanded huntingtin mutations. Human Molecular Genetics, 2018, 27, 4117-4134.	1.4	21
44	Casein Kinase 1 Î± Phosphorylates the Wnt Regulator Jade-1 and Modulates Its Activity. Journal of Biological Chemistry, 2014, 289, 26344-26356.	1.6	19
45	Proteomic analysis of the kidney filtration barrierâ€"Problems and perspectives. Proteomics - Clinical Applications, 2015, 9, 1053-1068.	0.8	19
46	Characterization of a short isoform of the kidney protein podocin in human kidney. BMC Nephrology, 2013, 14, 102.	0.8	18
47	The ubiquitin-conjugating enzyme UBE2K determines neurogenic potential through histone H3 in human embryonic stem cells. Communications Biology, 2020, 3, 262.	2.0	18
48	Accelerated lysine metabolism conveys kidney protection in salt-sensitive hypertension. Nature Communications, 2022, 13, .	5.8	18
49	The podocyte protease web: uncovering the gatekeepers of glomerular disease. American Journal of Physiology - Renal Physiology, 2018, 315, F1812-F1816.	1.3	17
50	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.	1.6	16
51	An integrative approach to cisplatin chronic toxicities in mice reveals importance of organic cation-transporter-dependent protein networks for renoprotection. Archives of Toxicology, 2019, 93, 2835-2848.	1.9	16
52	The RNA-Protein Interactome of Differentiated Kidney Tubular Epithelial Cells. Journal of the American Society of Nephrology: JASN, 2019, 30, 564-576.	3.0	16
53	Tripartite Separation of Glomerular Cell Types and Proteomes from Reporter-Free Mice. Journal of the American Society of Nephrology: JASN, 2021, 32, 2175-2193.	3.0	16
54	Specific disruption of calcineurin-signaling in the distal convoluted tubule impacts the transcriptome and proteome, and causes hypomagnesemia and metabolic acidosis. Kidney International, 2021, 100, 850-869.	2.6	16

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55	Protein halfâ€life determines expression of proteostatic networks in podocyte differentiation. FASEB Journal, 2018, 32, 4696-4713.	0.2	15
56	Quantification of molecular heterogeneity in kidney tissue by targeted proteomics. Journal of Proteomics, 2019, 193, 85-92.	1.2	15
57	Different effects of CsA and FK506 on aquaporin-2 abundance in rat primary cultured collecting duct cells. Pflugers Archiv European Journal of Physiology, 2011, 462, 611-622.	1.3	13
58	Autosomal Tubulointerstitial Kidney Diseaseâ€"MUC1 Type: Differential Proteomics Suggests that Mutated MUC1 (insC) Affects Vesicular Transport in Renal Epithelial Cells. Proteomics, 2018, 18, e1700456.	1.3	13
59	Cognitive analysis of metabolomics data for systems biology. Nature Protocols, 2021, 16, 1376-1418.	5.5	13
60	Loss of the <scp>B</scp>irtâ€"<scp>H</scp>oggâ€"<scp>D</scp>ubÃ© gene product folliculin induces longevity in a hypoxiaâ€inducible factorâ€"dependent manner. Aging Cell, 2013, 12, 593-603.	3.0	12
61	Cyclosporin-A Induced Toxicity in Rat Renal Collecting Duct Cells: Interference with Enhanced Hypertonicity Induced Apoptosis. Cellular Physiology and Biochemistry, 2010, 26, 887-900.	1.1	11
62	Jade-1S phosphorylation induced by CK1Î± contributes to cell cycle progression. Cell Cycle, 2016, 15, 1034-1045.	1.3	9
63	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.	2.6	9
64	MANTI: Automated Annotation of Protein N-Termini for Rapid Interpretation of N-Terminome Data Sets. Analytical Chemistry, 2021, 93, 5596-5605.	3.2	9
65	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.	3.0	7
66	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.	0.2	6
67	Single glomerular proteomics: A novel tool for translational glomerular cell biology. Methods in Cell Biology, 2019, 154, 1-14.	0.5	6
68	The calcium-sensing receptor stabilizes podocyte function in proteinuric humans and mice. Kidney International, 2022, 101, 1186-1199.	2.6	6
69	Consensus draft of the native mouse podocyte-ome. American Journal of Physiology - Renal Physiology, 2022, 323, F182-F197.	1.3	6
70	Proteolysis and inflammation of the kidney glomerulus. Cell and Tissue Research, 2021, 385, 489-500.	1.5	4
71	Cloudâ€based archived metabolomics data: A resource for inâ€source fragmentation/annotation, metaâ€analysis and systems biology. Analytical Science Advances, 2020, 1, 70-80.	1.2	3
72	<i>Water transport running deep</i>. Focus on â€œDeep proteomic profiling of vasopressin-sensitive collecting duct cellsâ€. American Journal of Physiology - Cell Physiology, 2015, 309, C783-C784.	2.1	2

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73	Viewing Cortical Collecting Duct Function Through Phenotype-guided Single-Tubule Proteomics. Function, 2020, 1, zqaa007.	1.1	2
74	A stressed barrier left behind: stochastic podocyte ablation triggers secondary injury. American Journal of Physiology - Renal Physiology, 2021, 320, F866-F869.	1.3	2
75	(Sugar-) Sweet Biomarkers? Clinical Proteomics Enters Sepsis Research*. Critical Care Medicine, 2015, 43, 2245-2246.	0.4	1
76	A knowledge-guided kidney cell censusâ€"reconciling bulk omics with cellular heterogeneity?. Kidney International, 2019, 95, 733-735.	2.6	1
77	MAGED2 controls vasopressin-induced aquaporin-2 expression in collecting duct cells. Journal of Proteomics, 2022, 252, 104424.	1.2	1
78	The authors reply. Kidney International, 2019, 96, 1422-1423.	2.6	0