

# Rick G Schnellmann

## List of Publications by Year in descending order

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87  
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147801  
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#	ARTICLE	IF	CITATIONS
1	Repeated Administration of 2-Hydroxypropyl- $\beta$ -Cyclodextrin (HP $\beta$ CD) Attenuates the Chronic Inflammatory Response to Experimental Stroke. <i>Journal of Neuroscience</i> , 2022, 42, 325-348.	3.6	14
2	Design, Development, Physicochemical Characterization, and In Vitro Drug Release of Formoterol PEGylated PLGA Polymeric Nanoparticles. <i>Pharmaceutics</i> , 2022, 14, 638.	4.5	6
3	Post-Stroke Administration of the p75 Neurotrophin Receptor Modulator, LM11A-31, Attenuates Chronic Changes in Brain Metabolism, Increases Neurotransmitter Levels, and Improves Recovery. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2022, 380, 126-141.	2.5	6
4	Mitochondrial Fission and Fusion Dynamics are Regulated by Multiple Pathways in Renal Proximal Tubule Cells Treated with High Glucose. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
5	Mitochondrial biogenesis for the treatment of spinal cord injury. , 2022, , 359-372.		1
6	Kidney targeting of formoterol containing polymeric nanoparticles improves recovery from ischemia reperfusion-induced acute kidney injury in mice. <i>Kidney International</i> , 2022, 102, 1073-1089.	5.2	8
7	Increased Renal Expression of Complement Components in Patients With Liver Diseases: Nonalcoholic Steatohepatitis, Alcohol-Associated, Viral Hepatitis, and Alcohol-Viral Combination. <i>Toxicological Sciences</i> , 2022, 189, 62-72.	3.1	5
8	Time-to-treatment window and cross-sex potential of $\beta$ 2-adrenergic receptor-induced mitochondrial biogenesis-mediated recovery after spinal cord injury. <i>Toxicology and Applied Pharmacology</i> , 2021, 411, 115366.	2.8	13
9	Formoterol PLGA-PEG Nanoparticles Induce Mitochondrial Biogenesis in Renal Proximal Tubules. <i>AAPS Journal</i> , 2021, 23, 88.	4.4	13
10	FDA-approved 5-HT1F receptor agonist lasmiditan induces mitochondrial biogenesis and enhances locomotor and blood-spinal cord barrier recovery after spinal cord injury. <i>Experimental Neurology</i> , 2021, 341, 113720.	4.1	14
11	Newly Identified Chemicals Preserve Mitochondrial Capacity and Decelerate Loss of Photoreceptor Cells in Murine Retinal Degeneration Models. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2021, 37, 367-378.	1.4	3
12	Measurement of Cell Death in Mammalian Cells. <i>Current Protocols</i> , 2021, 1, e210.	2.9	14
13	Metformin: Experimental and Clinical Evidence for a Potential Role in Emphysema Treatment. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 651-666.	5.6	49
14	Extracellular signal-regulated kinase 1/2 regulates NAD metabolism during acute kidney injury through microRNA-34a-mediated NAMPT expression. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 3643-3655.	5.4	20
15	Elucidation of cGMP-dependent induction of mitochondrial biogenesis through PKG and p38 MAPK in the kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F322-F328.	2.7	16
16	Regulation of mitochondrial dynamics and energetics in the diabetic renal proximal tubule by the $\beta$ 2-adrenergic receptor agonist formoterol. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, F773-F779.	2.7	21
17	Using the exposome to address gene–environment interactions in kidney disease. <i>Nature Reviews Nephrology</i> , 2020, 16, 621-622.	9.6	7
18	5-hydroxytryptamine 1F Receptor Agonist Induces Mitochondrial Biogenesis and Promotes Recovery from Spinal Cord Injury. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020, 372, 216-223.	2.5	20

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19	Mitochondrial biogenesis as a therapeutic target for traumatic and neurodegenerative CNS diseases. <i>Experimental Neurology</i> , 2020, 329, 113309.	4.1	55
20	Formoterol, a $\beta_2$ -adrenoreceptor agonist, induces mitochondrial biogenesis and promotes cognitive recovery after traumatic brain injury. <i>Neurobiology of Disease</i> , 2020, 140, 104866.	4.4	16
21	PDE5 inhibition rescues mitochondrial dysfunction and angiogenic responses induced by Akt3 inhibition by promotion of PRC expression. <i>Journal of Biological Chemistry</i> , 2020, 295, 18091-18104.	3.4	6
22	$\beta_2$ -adrenergic receptor-mediated mitochondrial biogenesis improves skeletal muscle recovery following spinal cord injury. <i>Experimental Neurology</i> , 2019, 322, 113064.	4.1	24
23	The 5-hydroxytryptamine receptor 1F stimulates mitochondrial biogenesis and angiogenesis in endothelial cells. <i>Biochemical Pharmacology</i> , 2019, 169, 113644.	4.4	22
24	Proximal Tubule $\beta_2$ -Adrenergic Receptor Mediates Formoterol-Induced Recovery of Mitochondrial and Renal Function after Ischemia-Reperfusion Injury. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 369, 173-180.	2.5	26
25	Mitochondrial biogenesis induced by the $\beta_2$ -adrenergic receptor agonist formoterol accelerates podocyte recovery from glomerular injury. <i>Kidney International</i> , 2019, 96, 656-673.	5.2	44
26	Pharmacological Stimulation of Mitochondrial Biogenesis Using the Food and Drug Administration-Approved $\beta_2$ -Adrenoreceptor Agonist Formoterol for the Treatment of Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 962-972.	3.4	41
27	The $\beta_2$ -Adrenergic Receptor Agonist Formoterol Decreases Fibrotic And Mitochondrial Fusion/Fission Proteins in a Mouse Model of Diabetic Nephropathy. <i>FASEB Journal</i> , 2019, 33, 514.14.	0.5	1
28	Identification of dual mechanisms mediating 5-hydroxytryptamine receptor 1F-induced mitochondrial biogenesis. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F260-F268.	2.7	19
29	5-HT <sub>1F</sub> receptor-mediated mitochondrial biogenesis for the treatment of Parkinson's disease. <i>British Journal of Pharmacology</i> , 2018, 175, 348-358.	5.4	31
30	5-HT <sub>1F</sub> receptor regulates mitochondrial homeostasis and its loss potentiates acute kidney injury and impairs renal recovery. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F1119-F1128.	2.7	28
31	ERK1/2 Regulates NAD <sup>+</sup> Metabolism During Acute Kidney Injury Through microRNA-34a-Mediated NAMPT Expression. <i>FASEB Journal</i> , 2018, 32, .	0.5	1
32	Schematic diagram of the neural protective role of IMM004 after TGCI/R Pharmacological Induction of Mitochondrial Biogenesis using the $\beta_2$ -Adrenoreceptor Agonist Formoterol for the Treatment of Spinal Cord Injury. <i>FASEB Journal</i> , 2018, 32, 824.8.	0.5	0
33	Striatal Mitochondrial Disruption following Severe Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 487-494.	3.4	23
34	Inhibiting glucosylceramide synthase exacerbates cisplatin-induced acute kidney injury. <i>Journal of Lipid Research</i> , 2017, 58, 1439-1452.	4.2	35
35	Structural and pharmacological basis for the induction of mitochondrial biogenesis by formoterol but not clenbuterol. <i>Scientific Reports</i> , 2017, 7, 10578.	3.3	26
36	Mitochondrial-Based Therapeutics for the Treatment of Spinal Cord Injury: Mitochondrial Biogenesis as a Potential Pharmacological Target. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 363, 303-313.	2.5	83

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37	Mitochondrial energetics in the kidney. <i>Nature Reviews Nephrology</i> , 2017, 13, 629-646.	9.6	758
38	Extracellular Signal-Regulated Kinase 1/2 Regulates Mouse Kidney Injury Molecule-1 Expression Physiologically and Following Ischemic and Septic Renal Injury. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 363, 419-427.	2.5	31
39	Rapid Renal Regulation of Peroxisome Proliferator-activated Receptor $\beta$ Coactivator-1 $\alpha$ by Extracellular Signal-Regulated Kinase 1/2 in Physiological and Pathological Conditions. <i>Journal of Biological Chemistry</i> , 2016, 291, 26850-26859.	3.4	30
40	Disrupted mitochondrial genes and inflammation following stroke. <i>Life Sciences</i> , 2016, 166, 139-148.	4.3	14
41	Development of Therapeutics That Induce Mitochondrial Biogenesis for the Treatment of Acute and Chronic Degenerative Diseases. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 10411-10434.	6.4	49
42	Resistin Resets Neutrophil Function in Kidney Diseases*. <i>Critical Care Medicine</i> , 2016, 44, 1454-1455.	0.9	0
43	Delayed Mitogen-Activated Protein Kinase/Extracellular Signal-Regulated Kinase Inhibition by Trametinib Attenuates Systemic Inflammatory Responses and Multiple Organ Injury in Murine Sepsis*. <i>Critical Care Medicine</i> , 2016, 44, e711-e720.	0.9	37
44	5-HT <sub>2</sub> Receptor Regulation of Mitochondrial Genes: Unexpected Pharmacological Effects of Agonists and Antagonists. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 357, 1-9.	2.5	22
45	Mitochondrial Biogenesis as a Pharmacological Target: A New Approach to Acute and Chronic Diseases. <i>Annual Review of Pharmacology and Toxicology</i> , 2016, 56, 229-249.	9.4	140
46	NKT cell modulates NAFLD potentiation of metabolic oxidative stress-induced mesangial cell activation and proximal tubular toxicity. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, F85-F101.	2.7	17
47	Ethanol and High Cholesterol Diet Causes Severe Steatohepatitis and Early Liver Fibrosis in Mice. <i>PLoS ONE</i> , 2016, 11, e0163342.	2.5	16
48	Disrupted Renal Mitochondrial Homeostasis after Liver Transplantation in Rats. <i>PLoS ONE</i> , 2015, 10, e0140906.	2.5	3
49	Assessment of ToxCast Phase II for Mitochondrial Liabilities Using a High-Throughput Respirometric Assay. <i>Toxicological Sciences</i> , 2015, 146, 226-234.	3.1	30
50	Suppression of Mitochondrial Biogenesis through Toll-Like Receptor $\alpha$ -Dependent Mitogen-Activated Protein Kinase Kinase/Extracellular Signal-Regulated Kinase Signaling in Endotoxin-Induced Acute Kidney Injury. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015, 352, 346-357.	2.5	63
51	Kidney glycosphingolipids are elevated early in diabetic nephropathy and mediate hypertrophy of mesangial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F204-F215.	2.7	48
52	Improvement of liver injury and survival by JNK2 and iNOS deficiency in liver transplants from cardiac death mice. <i>Journal of Hepatology</i> , 2015, 63, 68-74.	3.7	14
53	Urinary ATP Synthase Subunit $\beta$ Is a Novel Biomarker of Renal Mitochondrial Dysfunction in Acute Kidney Injury. <i>Toxicological Sciences</i> , 2015, 145, 108-117.	3.1	13
54	Urinary mitochondrial DNA is a biomarker of mitochondrial disruption and renal dysfunction in acute kidney injury. <i>Kidney International</i> , 2015, 88, 1336-1344.	5.2	84

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55	Quantitative analysis of mitochondrial morphology and membrane potential in living cells using high-content imaging, machine learning, and morphological binning. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 348-360.	4.1	120
56	Renal cortical hexokinase and pentose phosphate pathway activation through the EGFR/Akt signaling pathway in endotoxin-induced acute kidney injury. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, F435-F444.	2.7	59
57	Agonism of the 5-Hydroxytryptamine 1F Receptor Promotes Mitochondrial Biogenesis and Recovery from Acute Kidney Injury. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 257-264.	2.5	61
58	Intereukin-10 and Kupffer cells protect steatotic mice livers from ischemia-reperfusion injury. <i>European Cytokine Network</i> , 2014, 25, 69-76.	2.0	27
59	Atomoxetine Prevents Dexamethasone-Induced Skeletal Muscle Atrophy in Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 351, 663-673.	2.5	34
60	Formoterol Restores Mitochondrial and Renal Function after Ischemia-Reperfusion Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 1157-1162.	6.1	111
61	Suppressed mitochondrial biogenesis in folic acid-induced acute kidney injury and early fibrosis. <i>Toxicology Letters</i> , 2014, 224, 326-332.	0.8	107
62	Accelerated recovery of renal mitochondrial and tubule homeostasis with SIRT1/PGC-1 $\alpha$ activation following ischemia-reperfusion injury. <i>Toxicology and Applied Pharmacology</i> , 2013, 273, 345-354.	2.8	142
63	$\beta$ 2-Adrenoceptor agonists in the regulation of mitochondrial biogenesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5376-5381.	2.2	21
64	Mitochondrial Homeostasis in Acute Organ Failure. <i>Current Pathobiology Reports</i> , 2013, 1, 169-177.	3.4	65
65	cGMP-Selective Phosphodiesterase Inhibitors Stimulate Mitochondrial Biogenesis and Promote Recovery from Acute Kidney Injury. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013, 347, 626-634.	2.5	79
66	Persistent disruption of mitochondrial homeostasis after acute kidney injury. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, F853-F864.	2.7	198
67	The $\beta$ 2-Adrenoceptor Agonist Formoterol Stimulates Mitochondrial Biogenesis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 342, 106-118.	2.5	82
68	Supplementation of amphiregulin improves fatty liver regeneration after partial hepatectomy (PHX): the role of c-Jun N-terminal kinase (JNK) and extracellular signal-regulated kinases (ERK). <i>FASEB Journal</i> , 2011, 25, 998.10.	0.5	0
69	A high-throughput respirometric assay for mitochondrial biogenesis and toxicity. <i>Analytical Biochemistry</i> , 2010, 404, 75-81.	2.4	119
70	SRT1720 Induces Mitochondrial Biogenesis and Rescues Mitochondrial Function after Oxidant Injury in Renal Proximal Tubule Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 333, 593-601.	2.5	140
71	5-Hydroxytryptamine Receptor Stimulation of Mitochondrial Biogenesis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 332, 632-639.	2.5	63
72	Toll-like receptor 4 is a key mediator of murine steatotic liver warm ischemia/reperfusion injury. <i>Liver Transplantation</i> , 2009, 15, 1101-1109.	2.4	52

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73	Calpain10: A new marker of kidney aging and dysfunction. FASEB Journal, 2009, 23, 604.11.	0.5	0
74	Isoflavones Promote Mitochondrial Biogenesis. Journal of Pharmacology and Experimental Therapeutics, 2008, 325, 536-543.	2.5	180
75	Extracellular Signal-Regulated Kinase Activation Mediates Mitochondrial Dysfunction and Necrosis Induced by Hydrogen Peroxide in Renal Proximal Tubular Cells. Journal of Pharmacology and Experimental Therapeutics, 2008, 325, 732-740.	2.5	48
76	The Mitochondrial Biogenesis Regulator PGC-1 $\alpha$ is Degraded by the Proteasome and Calpain Pathways in Renal Cells. FASEB Journal, 2008, 22, 605.10.	0.5	0
77	PGC-1 $\alpha$ over-expression promotes recovery from mitochondrial dysfunction and cell injury. Biochemical and Biophysical Research Communications, 2007, 355, 734-739.	2.1	109
78	Divergent Roles for iPLA $\gamma$ in Mitochondrial Dysfunction. FASEB Journal, 2006, 20, A922.	0.5	0
79	Identification of the $\gamma$ -Aminobutyric Acid Receptor $\gamma$ 2 and $\gamma$ 3 Subunits in Rat, Rabbit, and Human Kidneys. Journal of the American Society of Nephrology: JASN, 2001, 12, 1107-1113.	6.1	12
80	Proteases in renal cell death: Calpains mediate cell death produced by diverse toxicants. Renal Failure, 1998, 20, 679-686.	2.1	36
81	Analgesic nephropathy in rodents. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 1998, 1, 81-90.	6.5	12
82	Transforming growth factor- $\beta$ 1 inhibits regeneration of renal proximal tubular cells after oxidant exposure. Journal of Biochemical Toxicology, 1996, 11, 79-84.	0.4	5
83	PROTEINASES IN RENAL CELL DEATH. Journal of Toxicology and Environmental Health - Part A: Current Issues, 1996, 48, 319-332.	2.3	14
84	Arachidonic acid release in renal proximal tubule cell injuries and death. Journal of Biochemical Toxicology, 1994, 9, 211-217.	0.4	26
85	Pentachlorobutadienyl-L-cysteine (PCBC) toxicity: The importance of mitochondrial dysfunction. Journal of Biochemical Toxicology, 1991, 6, 253-260.	0.4	13
86	The effects of haloalkene cysteine conjugates on cytosolic free calcium levels in suspensions of rat renal proximal tubules. Journal of Biochemical Toxicology, 1990, 5, 187-192.	0.4	10
87	The in vitro metabolism and bioactivation of 1,2-dibromoethane (ethylene dibromide) by human liver. Journal of Biochemical Toxicology, 1986, 1, 1-11.	0.4	20