

# Jonathan M Beckel

## List of Publications by Year in descending order

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47  
papers

1,968  
citations

304602

22  
h-index

243529

44  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2803  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution of the tight junction proteins ZO-1, occludin, and claudin-4, -8, and -12 in bladder epithelium. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 287, F305-F318.	1.3	204
2	Neurons respond directly to mechanical deformation with pannexin-mediated ATP release and autostimulation of P2X <sub>7</sub> receptors. <i>Journal of Physiology</i> , 2012, 590, 2285-2304.	1.3	155
3	Lysosomal alkalization and dysfunction in human fibroblasts with the Alzheimer's disease-linked presenilin 1 A246E mutation can be reversed with cAMP. <i>Neuroscience</i> , 2014, 263, 111-124.	1.1	152
4	Mechanosensitive release of adenosine 5'-triphosphate through pannexin channels and mechanosensitive upregulation of pannexin channels in optic nerve head astrocytes: A mechanism for purinergic involvement in chronic strain. <i>Glia</i> , 2014, 62, 1486-1501.	2.5	140
5	Non-neuronal acetylcholine and urinary bladder urothelium. <i>Life Sciences</i> , 2007, 80, 2298-2302.	2.0	130
6	Expression and function of bradykinin B1 and B2 receptors in normal and inflamed rat urinary bladder urothelium. <i>Journal of Physiology</i> , 2005, 562, 859-871.	1.3	113
7	The P2X7 Receptor Primes IL-1 $\beta$ and the NLRP3 Inflammasome in Astrocytes Exposed to Mechanical Strain. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 227.	1.8	109
8	Expression of functional nicotinic acetylcholine receptors in rat urinary bladder epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, F103-F110.	1.3	104
9	Heterogeneity of muscarinic receptor-mediated Ca <sup>2+</sup> responses in cultured urothelial cells from rat. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, F971-F981.	1.3	83
10	Lysosomal alkalization, lipid oxidation, and reduced phagosome clearance triggered by activation of the P2X7 receptor. <i>FASEB Journal</i> , 2013, 27, 4500-4509.	0.2	81
11	Pannexin 1 channels mediate the release of ATP into the lumen of the rat urinary bladder. <i>Journal of Physiology</i> , 2015, 593, 1857-1871.	1.3	75
12	Approaches for detecting lysosomal alkalization and impaired degradation in fresh and cultured RPE cells: Evidence for a role in retinal degenerations. <i>Experimental Eye Research</i> , 2014, 126, 68-76.	1.2	70
13	Expression and function of rat urothelial P2Y receptors. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, F821-F829.	1.3	54
14	Analysis of the afferent limb of the vesicovascular reflex using neurotoxins, resiniferatoxin and capsaicin. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 281, R1302-R1310.	0.9	46
15	Neuronal Release of Cytokine IL-3 Triggered by Mechanosensitive Autostimulation of the P2X7 Receptor Is Neuroprotective. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 270.	1.8	44
16	Neurophysiology of the Lower Urinary Tract. <i>Handbook of Experimental Pharmacology</i> , 2011, , 149-169.	0.9	43
17	Neuroanatomy of the Lower Urinary Tract. <i>Handbook of Experimental Pharmacology</i> , 2011, , 99-116.	0.9	42
18	Differential expression and function of nicotinic acetylcholine receptors in the urinary bladder epithelium of the rat. <i>Journal of Physiology</i> , 2012, 590, 1465-1480.	1.3	41

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19	The P2X7 receptor links mechanical strain to cytokine $IL-6$ up-regulation and release in neurons and astrocytes. <i>Journal of Neurochemistry</i> , 2017, 141, 436-448.	2.1	40
20	Functional roles for PIEZO1 and PIEZO2 in urothelial mechanotransduction and lower urinary tract interoception. <i>JCI Insight</i> , 2021, 6, .	2.3	40
21	Age-related endolysosome dysfunction in the rat urothelium. <i>PLoS ONE</i> , 2018, 13, e0198817.	1.1	32
22	Stimulation of TLR3 triggers release of lysosomal ATP in astrocytes and epithelial cells that requires TRPML1 channels. <i>Scientific Reports</i> , 2018, 8, 5726.	1.6	31
23	Involvement of TRPM4 in detrusor overactivity following spinal cord transection in mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2018, 391, 1191-1202.	1.4	18
24	CAKUT and Autonomic Dysfunction Caused by Acetylcholine Receptor Mutations. <i>American Journal of Human Genetics</i> , 2019, 105, 1286-1293.	2.6	18
25	LPS-mediated release of ATP from urothelial cells occurs by lysosomal exocytosis. <i>Neurourology and Urodynamics</i> , 2020, 39, 1321-1329.	0.8	15
26	Polarized Cytokine Release Triggered by P2X7 Receptor from Retinal Pigmented Epithelial Cells Dependent on Calcium Influx. <i>Cells</i> , 2020, 9, 2537.	1.8	11
27	Activation of TRPC channels contributes to $NO_2$ -induced responses in guinea pig dorsal root ganglion neurons. <i>Journal of Physiology</i> , 2014, 592, 4297-4312.	1.3	9
28	Pudendal Nerve Block by Low-Frequency (1 kHz) Biphasic Electrical Stimulation. <i>Neuromodulation</i> , 2021, 24, 1012-1017.	0.4	9
29	Mechanisms Underlying Poststimulation Block Induced by High-Frequency Biphasic Stimulation. <i>Neuromodulation</i> , 2023, 26, 577-588.	0.4	7
30	Bladder underactivity induced by prolonged pudendal afferent activity in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 320, R80-R87.	0.9	6
31	Model Analysis of Post-Stimulation Effect on Axonal Conduction and Block. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2974-2985.	2.5	6
32	The effect of the electrophilic fatty acid nitro-oleic acid on TRP channel function in sensory neurons. <i>Nitric Oxide - Biology and Chemistry</i> , 2018, 78, 154-160.	1.2	5
33	Low pressure voiding induced by stimulation and 1 kHz post-stimulation block of the pudendal nerves in cats. <i>Experimental Neurology</i> , 2021, 346, 113860.	2.0	5
34	TRP Channel Agonists Activate Different Afferent Neuromodulatory Mechanisms in Guinea Pig Urinary Bladder. <i>Frontiers in Physiology</i> , 2021, 12, 692719.	1.3	4
35	The Lower Urinary Tract. , 2015, , 247-263.		3
36	Treatment of Retinal Disorders with Purinergic Drugs: Beyond Receptors. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2016, 32, 488-489.	0.6	3

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37	Superficial peroneal neuromodulation of nonobstructive urinary retention in cats. <i>Neurourology and Urodynamics</i> , 2020, 39, 1679-1686.	0.8	3
38	Activation of TRPM8 channel inhibits contraction of the isolated human ureter. <i>Neurourology and Urodynamics</i> , 2021, 40, 1450-1459.	0.8	3
39	High-frequency stimulation induces axonal conduction block without generating initial action potentials. <i>Journal of Computational Neuroscience</i> , 2021, , 1.	0.6	3
40	Sacral neuromodulation of bladder underactivity induced by prolonged pudendal afferent firing in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 322, R535-R541.	0.9	3
41	Response of hypogastric afferent fibers to bladder distention or irritation in cats. <i>Experimental Neurology</i> , 2020, 329, 113301.	2.0	2
42	Superficial peroneal neuromodulation of persistent bladder underactivity induced by prolonged pudendal afferent nerve stimulation in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 320, R675-R682.	0.9	2
43	Defecation Induced by Stimulation of Sacral S2 Spinal Root in Cats. <i>American Journal of Physiology - Renal Physiology</i> , 2021, , .	1.6	2
44	Superficial Peroneal Neuromodulation of Nonobstructive Urinary Retention Induced by Prolonged Pudendal Afferent Activity in Cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, , .	0.9	1
45	Temperature Effect on Nerve Conduction Block Induced by High-Frequency (kHz) Biphasic Stimulation. <i>Neuromodulation</i> , 2022, , .	0.4	1
46	MP21-16 ROLE OF TRPM4 ON MORPHOLOGICAL AND FUNCTIONAL CHANGES IN THE NEUROGENIC BLADDER. <i>Journal of Urology</i> , 2015, 193, .	0.2	0
47	Expression and functionality of urothelial muscarinic receptors. <i>FASEB Journal</i> , 2006, 20, A245.	0.2	0