

Lori A Birder

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112
papers

4,168
citations

37
h-index

62
g-index

122
ext. papers

4,690
ext. citations

4.6
avg, IF

5.87
L-index

#	Paper	IF	Citations
112	Urothelial signaling. <i>Physiological Reviews</i> , 2013 , 93, 653-80	47.9	292
111	Mechanisms of disease: involvement of the urothelium in bladder dysfunction. <i>Nature Reviews Urology</i> , 2007 , 4, 46-54		266
110	Beta-adrenoceptor agonists stimulate endothelial nitric oxide synthase in rat urinary bladder urothelial cells. <i>Journal of Neuroscience</i> , 2002 , 22, 8063-70	6.6	185
109	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, F305-18	4.3	180
108	ATP and purinergic receptor-dependent membrane traffic in bladder umbrella cells. <i>Journal of Clinical Investigation</i> , 2005 , 115, 2412-22	15.9	173
107	Diabetic bladder dysfunction: current translational knowledge. <i>Journal of Urology</i> , 2009 , 182, S18-26	2.5	161
106	More than just a barrier: urothelium as a drug target for urinary bladder pain. <i>American Journal of Physiology - Renal Physiology</i> , 2005 , 289, F489-95	4.3	136
105	Activation of urothelial transient receptor potential vanilloid 4 by 4alpha-phorbol 12,13-didecanoate contributes to altered bladder reflexes in the rat. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 323, 227-35	4.7	118
104	Non-neuronal acetylcholine and urinary bladder urothelium. <i>Life Sciences</i> , 2007 , 80, 2298-302	6.8	112
103	Adrenergic- and capsaicin-evoked nitric oxide release from urothelium and afferent nerves in urinary bladder. <i>American Journal of Physiology - Renal Physiology</i> , 1998 , 275, F226-9	4.3	107
102	Expression and function of bradykinin B1 and B2 receptors in normal and inflamed rat urinary bladder urothelium. <i>Journal of Physiology</i> , 2005 , 562, 859-71	3.9	103
101	The underactive bladder: a new clinical concept?. <i>European Urology</i> , 2015 , 68, 351-3	10.2	97
100	Expression of functional nicotinic acetylcholine receptors in rat urinary bladder epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2006 , 290, F103-10	4.3	97
99	Activation of muscarinic receptors in rat bladder sensory pathways alters reflex bladder activity. <i>Journal of Neuroscience</i> , 2008 , 28, 1977-87	6.6	94
98	Urothelial signaling. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2010 , 153, 33-40	2.4	83
97	Pilot study of liposome-encapsulated onabotulinumtoxin for patients with overactive bladder: a single-center study. <i>European Urology</i> , 2014 , 65, 1117-24	10.2	78
96	Disruption of bladder epithelium barrier function after spinal cord injury. <i>American Journal of Physiology - Renal Physiology</i> , 2003 , 284, F966-76	4.3	78

95	Urinary bladder urothelium: molecular sensors of chemical/thermal/mechanical stimuli. <i>Vascular Pharmacology</i> , 2006 , 45, 221-6	5.9	76
94	Pannexin 1 channels mediate the release of ATP into the lumen of the rat urinary bladder. <i>Journal of Physiology</i> , 2015 , 593, 1857-71	3.9	60
93	Botulinum neurotoxin serotype A suppresses neurotransmitter release from afferent as well as efferent nerves in the urinary bladder. <i>European Urology</i> , 2012 , 62, 1157-64	10.2	58
92	Evidence for bladder urothelial pathophysiology in functional bladder disorders. <i>BioMed Research International</i> , 2014 , 2014, 865463	3	56
91	Abnormal excitability in capsaicin-responsive DRG neurons from cats with feline interstitial cystitis. <i>Experimental Neurology</i> , 2005 , 193, 437-43	5.7	56
90	Role of urothelial nerve growth factor in human bladder function. <i>Neurourology and Urodynamics</i> , 2007 , 26, 405-9	2.3	54
89	Manganese superoxide dismutase gene therapy protects against irradiation-induced cystitis. <i>American Journal of Physiology - Renal Physiology</i> , 2002 , 283, F1304-12	4.3	54
88	Expression and function of rat urothelial P2Y receptors. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, F821-9	4.3	51
87	Beyond neurons: Involvement of urothelial and glial cells in bladder function. <i>Neurourology and Urodynamics</i> , 2010 , 29, 88-96	2.3	50
86	Effect of botulinum toxin A on urothelial-release of ATP and expression of SNARE targets within the urothelium. <i>Neurourology and Urodynamics</i> , 2015 , 34, 79-84	2.3	49
85	PACAP-mediated ATP release from rat urothelium and regulation of PACAP/VIP and receptor mRNA in micturition pathways after cyclophosphamide (CYP)-induced cystitis. <i>Journal of Molecular Neuroscience</i> , 2008 , 36, 310-20	3.3	48
84	Role of the urothelium in bladder function. <i>Scandinavian Journal of Urology and Nephrology</i> , 2004 , 48-53		46
83	Corticotropin-releasing factor family peptide signaling in feline bladder urothelial cells. <i>Journal of Endocrinology</i> , 2014 , 222, 113-21	4.7	44
82	TRPs in bladder diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2007 , 1772, 879-84	6.9	44
81	Characterization of bladder and external urethral activity in mice with or without spinal cord injury--a comparison study with rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R752-8	3.2	44
80	VEGF receptors and neuropilins are expressed in the urothelial and neuronal cells in normal mouse urinary bladder and are upregulated in inflammation. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F60-72	4.3	39
79	Pharmacological evaluation of the role of cyclooxygenase isoenzymes on the micturition reflex following experimental cystitis in rats. <i>British Journal of Pharmacology</i> , 2000 , 130, 331-8	8.6	39
78	Detrusor underactivity and the underactive bladder: Symptoms, function, cause-what do we mean? ICI-RS think tank 2014. <i>Neurourology and Urodynamics</i> , 2016 , 35, 312-7	2.3	39

77	Differential expression and function of nicotinic acetylcholine receptors in the urinary bladder epithelium of the rat. <i>Journal of Physiology</i> , 2012 , 590, 1465-80	3.9	38
76	Protein kinase C contributes to abnormal capsaicin responses in DRG neurons from cats with feline interstitial cystitis. <i>Neuroscience Letters</i> , 2005 , 381, 42-6	3.3	38
75	Urothelial signaling. <i>Handbook of Experimental Pharmacology</i> , 2011 , 207-31	3.2	37
74	Bladder Adelta afferent nerve activity in normal cats and cats with feline interstitial cystitis. <i>Journal of Urology</i> , 2005 , 173, 1011-5	2.5	36
73	Pathophysiology of interstitial cystitis. <i>International Journal of Urology</i> , 2019 , 26 Suppl 1, 12-15	2.3	34
72	Animal Modelling of Interstitial Cystitis/Bladder Pain Syndrome. <i>International Neurourology Journal</i> , 2018 , 22, S3-9	2.6	34
71	Impact of diabetes mellitus on bladder uroepithelial cells. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 304, R84-93	3.2	34
70	Nervous network for lower urinary tract function. <i>International Journal of Urology</i> , 2013 , 20, 4-12	2.3	29
69	Role of the urothelium in urinary bladder dysfunction following spinal cord injury. <i>Progress in Brain Research</i> , 2006 , 152, 135-46	2.9	26
68	Urothelial proliferation and regeneration after spinal cord injury. <i>American Journal of Physiology - Renal Physiology</i> , 2017 , 313, F85-F102	4.3	24
67	Urothelial Tight Junction Barrier Dysfunction Sensitizes Bladder Afferents. <i>ENeuro</i> , 2017 , 4,	3.9	24
66	Relaxin-2 therapy reverses radiation-induced fibrosis and restores bladder function in mice. <i>Neurourology and Urodynamics</i> , 2018 , 37, 2441-2451	2.3	23
65	P2X3 receptors and sensitization of autonomic reflexes. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2015 , 191, 16-24	2.4	22
64	Effect of nepadutant, a neurokinin 2 tachykinin receptor antagonist, on immediate-early gene expression after trinitrobenzenesulfonic acid-induced colitis in the rat. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003 , 304, 272-6	4.7	22
63	Urothelial mucosal signaling and the overactive bladder-ICI-RS 2013. <i>Neurourology and Urodynamics</i> , 2014 , 33, 597-601	2.3	21
62	Layer-dependent role of collagen recruitment during loading of the rat bladder wall. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018 , 17, 403-417	3.8	19
61	Brain-derived neurotrophic factor in urinary continence and incontinence. <i>Nature Reviews Urology</i> , 2014 , 11, 579-88	5.5	19
60	Fundamentals and clinical perspective of urethral sphincter instability as a contributing factor in patients with lower urinary tract dysfunction-ICI-RS 2014. <i>Neurourology and Urodynamics</i> , 2016 , 35, 318-23	2.3	19

59	Age-related endolysosome dysfunction in the rat urothelium. <i>PLoS ONE</i> , 2018 , 13, e0198817	3.7	18
58	Patient characteristics for different therapeutic strategies in the management ketamine cystitis. <i>Neurourology and Urodynamics</i> , 2017 , 36, 687-691	2.3	17
57	Current Pharmacologic Approaches in Painful Bladder Research: An Update. <i>International Neurourology Journal</i> , 2017 , 21, 235-242	2.6	16
56	Urethral sensation: basic mechanisms and clinical expressions. <i>International Journal of Urology</i> , 2014 , 21 Suppl 1, 13-6	2.3	16
55	Urinary bladder, cystitis and nerve/urothelial interactions. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2014 , 182, 89-94	2.4	16
54	Chronic pelvic pain syndrome/bladder pain syndrome: taking stock, looking ahead: ICI-RS 2011. <i>Neurourology and Urodynamics</i> , 2012 , 31, 375-83	2.3	16
53	New insights into the pharmacology of the bladder. <i>Current Opinion in Urology</i> , 2008 , 18, 347-52	2.8	16
52	Cystitis, co-morbid disorders and associated epithelial dysfunction. <i>Neurourology and Urodynamics</i> , 2011 , 30, 668-72	2.3	15
51	Botulinum Toxin A for Bladder Pain Syndrome/Interstitial Cystitis. <i>Toxins</i> , 2016 , 8,	4.9	15
50	Stress-induced autonomic dysregulation of mitochondrial function in the rat urothelium. <i>Neurourology and Urodynamics</i> , 2019 , 38, 572-581	2.3	15
49	Role of neurogenic inflammation in local communication in the visceral mucosa. <i>Seminars in Immunopathology</i> , 2018 , 40, 261-279	12	14
48	Bladder smooth muscle strip contractility as a method to evaluate lower urinary tract pharmacology. <i>Journal of Visualized Experiments</i> , 2014 , e51807	1.6	14
47	Implications for bidirectional signaling between afferent nerves and urothelial cells-ICI-RS 2014. <i>Neurourology and Urodynamics</i> , 2016 , 35, 273-7	2.3	14
46	Involvement of TRPM4 in detrusor overactivity following spinal cord transection in mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2018 , 391, 1191-1202	3.4	13
45	Urinary bladder mucosal responses to ischemia. <i>World Journal of Urology</i> , 2015 , 33, 275-80	4	12
44	Alterations in the non-neuronal acetylcholine synthesis and release machinery in esophageal epithelium. <i>Life Sciences</i> , 2012 , 91, 1065-9	6.8	12
43	Are oxidative stress and ischemia significant causes of bladder damage leading to lower urinary tract dysfunction? Report from the ICI-RS 2019. <i>Neurourology and Urodynamics</i> , 2020 , 39 Suppl 3, S16-S22	2.3	11
42	The aging bladder insights from animal models. <i>Asian Journal of Urology</i> , 2018 , 5, 135-140	2.7	11

41	Neuromodulation of Urinary Tract Function. <i>New England Journal of Medicine</i> , 2019 , 380, 2067-2069	59.2	9
40	Acute spinal cord injury is associated with mitochondrial dysfunction in mouse urothelium. <i>Neurourology and Urodynamics</i> , 2019 , 38, 1551-1559	2.3	9
39	Aging increases the expression of vasopressin receptors in both the kidney and urinary bladder. <i>Neurourology and Urodynamics</i> , 2019 , 38, 393-397	2.3	9
38	Laser-capture microdissection for analysis of cell type-specific gene expression of muscarinic receptor subtypes in the rat bladder with cyclophosphamide-induced cystitis. <i>International Urology and Nephrology</i> , 2015 , 47, 637-42	2.3	8
37	Inflammation and Tissue Remodeling in the Bladder and Urethra in Feline Interstitial Cystitis. <i>Frontiers in Systems Neuroscience</i> , 2018 , 12, 13	3.5	8
36	New Frontiers of Basic Science Research in Neurogenic Lower Urinary Tract Dysfunction. <i>Urologic Clinics of North America</i> , 2017 , 44, 491-505	2.9	8
35	Host Responses to Urinary Tract Infections and Emerging Therapeutics: Sensation and Pain within the Urinary Tract. <i>Microbiology Spectrum</i> , 2016 , 4,	8.9	8
34	Targeting p75 neurotrophin receptors ameliorates spinal cord injury-induced detrusor sphincter dyssynergia in mice. <i>Neurourology and Urodynamics</i> , 2018 , 37, 2452-2461	2.3	8
33	Abnormal Sensory Protein Expression and Urothelial Dysfunction in Ketamine-Related Cystitis in Humans. <i>International Neurourology Journal</i> , 2016 , 20, 197-202	2.6	7
32	Upregulation of neurotrophins and transforming growth factor- β expression in the bladder may lead to nerve hyperplasia and fibrosis in patients with severe ketamine-associated cystitis. <i>Neurourology and Urodynamics</i> , 2019 , 38, 2303-2310	2.3	6
31	Pathophysiological Mechanisms of Nocturia and Nocturnal Polyuria: The Contribution of Cellular Function, the Urinary Bladder Urothelium, and Circadian Rhythm. <i>Urology</i> , 2019 , 133S, 14-23	1.6	6
30	Mechanisms of pelvic organ cross-talk: impact of urethral ligation on the inhibitory rectovesical reflex. <i>Journal of Urology</i> , 2014 , 192, 1574-9	2.5	6
29	TASCI-transcutaneous tibial nerve stimulation in patients with acute spinal cord injury to prevent neurogenic detrusor overactivity: protocol for a nationwide, randomised, sham-controlled, double-blind clinical trial. <i>BMJ Open</i> , 2020 , 10, e039164	3	6
28	Neuronal Activation in the Periaqueductal Gray Matter Upon Electrical Stimulation of the Bladder. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 133	6.1	5
27	The role of prostaglandin and E series prostaglandin receptor type 4 receptors in the development of bladder overactivity in a rat model of chemically induced prostatic inflammation. <i>BJU International</i> , 2019 , 124, 883-891	5.6	4
26	Purine nucleoside phosphorylase inhibition ameliorates age-associated lower urinary tract dysfunctions. <i>JCI Insight</i> , 2020 , 5,	9.9	4
25	A uro-protective agent with restorative actions on urethral and striated muscle morphology. <i>World Journal of Urology</i> , 2021 , 39, 2685-2690	4	4
24	Dysregulation of bladder corticotropin-releasing hormone receptor in the pathogenesis of human interstitial cystitis/bladder pain syndrome. <i>Scientific Reports</i> , 2019 , 9, 19169	4.9	4

23	Recent advances in pharmacological management of urinary incontinence. <i>F1000Research</i> , 2017 , 6, 21483.6		3
22	Purinergic mechanisms in human bladder cancer cells. <i>FASEB Journal</i> , 2007 , 21, A1349	0.9	3
21	Urothelial health after platelet-rich plasma injection in intractable recurrent urinary tract infection: Improved cell proliferation, cytoskeleton, and barrier function protein expression. <i>LUTS: Lower Urinary Tract Symptoms</i> , 2021 , 13, 271-278	1.9	3
20	Cardiovascular risk independently predicts small functional bladder storage capacity. <i>International Urology and Nephrology</i> , 2021 , 53, 35-39	2.3	3
19	Improved Urothelial Cell Proliferation, Cytoskeleton and Barrier Function Protein Expression in the Patients With Interstitial Cystitis/Bladder Pain Syndrome After Intravesical Platelet-Rich Plasma Injection.. <i>International Neurourology Journal</i> , 2022 ,	2.6	2
18	Is there a role for oxidative stress and mitochondrial dysfunction in age-associated bladder disorders?. <i>Tzu Chi Medical Journal</i> , 2020 , 32, 223-226	1.1	2
17	Feline Interstitial Cystitis Enhances Mucosa-Dependent Contractile Responses to Serotonin. <i>International Neurourology Journal</i> , 2018 , 22, 246-251	2.6	1
16	Should we be revisiting LUT basic science and clinical measurement of LUT sensation to improve patient care? ICI-RS 2019. <i>Neurourology and Urodynamics</i> , 2020 , 39 Suppl 3, S23-S29	2.3	1
15	Host Responses to Urinary Tract Infections and Emerging Therapeutics: Sensation and Pain within the Urinary Tract 2016 , 565-588		0
14	Nocturnal Urine Production in Women With Global Polyuria. <i>International Neurourology Journal</i> , 2020 , 24, 270-277	2.6	0
13	Are there relevant animal models to set research priorities in LUTD? ICI-RS 2019. <i>Neurourology and Urodynamics</i> , 2020 , 39 Suppl 3, S9-S15	2.3	0
12	Deficits of urothelial cell proliferation, cytoskeleton, and barrier function protein expressions in patients with recurrent and persistent urinary tract infections. <i>LUTS: Lower Urinary Tract Symptoms</i> , 2021 , 13, 203-209	1.9	0
11	First voided volume: A novel approach to characterize nocturia. <i>Neurourology and Urodynamics</i> , 2021 , 40, 848-854	2.3	0
10	Oxidative Stress Biomarkers in Age-Related Lower Urinary Tract Disorders: A Systematic Review.. <i>International Neurourology Journal</i> , 2022 , 26, 3-19	2.6	0
9	Effects of vasopressin receptor agonists on detrusor smooth muscle tone in young and aged bladders: Implications for nocturia treatment 2022 , 100032		0
8	What's hot from the ICS Annual Meeting 2006. <i>Neurourology and Urodynamics</i> , 2007 , 26, 148-153	2.3	
7	Urothelial and Afferent Mechanisms Inducing Bladder Pain in Interstitial Cystitis. <i>Journal of Neuropathic Pain & Symptom Palliation</i> , 2006 , 2, 3-22		
6	Commentary on "Cognitive Function and Urologic Medications for Lower Urinary Tract Symptoms". <i>International Neurourology Journal</i> , 2020 , 24, 295	2.6	

- 5 Expression and functionality of urothelial muscarinic receptors. *FASEB Journal*, **2006**, 20, A245 0.9
- 4 Urothelial cell activation leads to afferent excitability: Effects of botulinum toxin A. *FASEB Journal*, **2006**, 20, A689 0.9
- 3 Regulation of urothelial cell function by corticotrophin peptides. *FASEB Journal*, **2009**, 23, 121.5 0.9
- 2 Associations between nighttime and daytime maximum voided volumes: Relevance for nocturia?. *Neurourology and Urodynamics*, **2020**, 39, 2301-2304 2.3
- 1 Re: PIEZO2 in Sensory Neurons and Urothelial Cells Coordinate Urination. *European Urology*, **2021**, 80, 255-256 10.2