## Xue-Ru Wu

## List of Publications by Year in descending order

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119 papers

7,884 citations

44069 48 h-index 85 g-index

122 all docs 122 docs citations

times ranked

122

7846 citing authors

#	Article	IF	CITATIONS
1	Urothelial tumorigenesis: a tale of divergent pathways. Nature Reviews Cancer, 2005, 5, 713-725.	28.4	621
2	Aristolochic acid-associated urothelial cancer in Taiwan. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8241-8246.	7.1	347
3	Uroplakin Ia is the urothelial receptor for uropathogenic <i>Escherichia coli</i> : evidence from in vitro FimH binding. Journal of Cell Science, 2001, 114, 4095-4103.	2.0	311
4	Uroplakins in urothelial biology, function, and disease. Kidney International, 2009, 75, 1153-1165.	<b>5.2</b>	284
5	Tamm-Horsfall Protein Binds to Type 1 Fimbriated Escherichia coli and Prevents E. coli from Binding to Uroplakin Ia and Ib Receptors. Journal of Biological Chemistry, 2001, 276, 9924-9930.	3.4	260
6	E-cigarette smoke damages DNA and reduces repair activity in mouse lung, heart, and bladder as well as in human lung and bladder cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1560-E1569.	7.1	235
7	Ablation of Uroplakin III Gene Results in Small Urothelial Plaques, Urothelial Leakage, and Vesicoureteral Reflux. Journal of Cell Biology, 2000, 151, 961-972.	<b>5.</b> 2	226
8	Tamm-Horsfall protein is a critical renal defense factor protecting against calcium oxalate crystal formation. Kidney International, 2004, 66, 1159-1166.	<b>5.2</b>	217
9	Ablation of the Tamm-Horsfall protein gene increases susceptibility of mice to bladder colonization by type 1-fimbriated <i>Escherichia coli </i> i> American Journal of Physiology - Renal Physiology, 2004, 286, F795-F802.	2.7	165
10	Bladder cancers arise from distinct urothelial sub-populations. Nature Cell Biology, 2014, 16, 982-991.	10.3	163
11	Electronic-cigarette smoke induces lung adenocarcinoma and bladder urothelial hyperplasia in mice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21727-21731.	7.1	151
12	Role of Ha-ras activation in superficial papillary pathway of urothelial tumor formation. Oncogene, 2001, 20, 1973-1980.	5.9	144
13	Tamm-Horsfall protein protects the kidney from ischemic injury by decreasing inflammation and altering TLR4 expression. American Journal of Physiology - Renal Physiology, 2008, 295, F534-F544.	2.7	142
14	Three-dimensional analysis of the 16 nm urothelial plaque particle: luminal surface exposure, preferential head-to-head interaction, and hinge formation 1 1Edited by W. Baumeisser. Journal of Molecular Biology, 1999, 285, 595-608.	4.2	123
15	Distinct Glycan Structures of Uroplakins Ia and Ib. Journal of Biological Chemistry, 2006, 281, 14644-14653.	3.4	119
16	Selective Interactions of UPIa and UPIb, Two Members of the Transmembrane 4 Superfamily, with Distinct Single Transmembrane-domained Proteins in Differentiated Urothelial Cells. Journal of Biological Chemistry, 1995, 270, 29752-29759.	3.4	118
17	Immunohistochemical Panel to Identify the Primary Site of Invasive Micropapillary Carcinoma. American Journal of Surgical Pathology, 2009, 33, 1037-1041.	3.7	117
18	Brenner tumors but not transitional cell carcinomas of the ovary show urothelial differentiation: immunohistochemical staining of urothelial markers, including cytokeratins and uroplakins. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2001, 438, 181-191.	2.8	108

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19	Tamm-Horsfall protein translocates to the basolateral domain of thick ascending limbs, interstitium, and circulation during recovery from acute kidney injury. American Journal of Physiology - Renal Physiology, 2013, 304, F1066-F1075.	2.7	105
20	Towards the Molecular Architecture of the Asymmetric Unit Membrane of the Mammalian Urinary Bladder Epithelium: A Closed "Twisted Ribbon―Structure. Journal of Molecular Biology, 1995, 248, 887-900.	4.2	104
21	Renal calcinosis and stone formation in mice lacking osteopontin, Tamm-Horsfall protein, or both. American Journal of Physiology - Renal Physiology, 2007, 293, F1935-F1943.	2.7	104
22	Decreased Tumorigenesis and Mortality from Bladder Cancer in Mice Lacking Urothelial Androgen Receptor. American Journal of Pathology, 2013, 182, 1811-1820.	3.8	104
23	Hyperactivation of Ha-ras oncogene, but not Ink4a/Arf deficiency, triggers bladder tumorigenesis. Journal of Clinical Investigation, 2007, 117, 314-325.	8.2	101
24	Organization of uroplakin subunits: transmembrane topology, pair formation and plaque composition. Biochemical Journal, 2001, 355, 13-18.	3.7	97
25	Cellular basis of urothelial squamous metaplasia. Journal of Cell Biology, 2005, 171, 835-844.	5.2	97
26	Uromodulin in Kidney Injury: An Instigator, Bystander, or Protector?. American Journal of Kidney Diseases, 2012, 59, 452-461.	1.9	95
27	Aldehydes are the predominant forces inducing DNA damage and inhibiting DNA repair in tobacco smoke carcinogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6152-E6161.	7.1	88
28	Progressive renal papillary calcification and ureteral stone formation in mice deficient for Tamm-Horsfall protein. American Journal of Physiology - Renal Physiology, 2010, 299, F469-F478.	2.7	87
29	Loss of the Urothelial Differentiation Marker FOXA1 Is Associated with High Grade, Late Stage Bladder Cancer and Increased Tumor Proliferation. PLoS ONE, 2012, 7, e36669.	2.5	81
30	Persistent uroplakin expression in advanced urothelial carcinomas: implications in urothelial tumor progression and clinical outcome. Human Pathology, 2007, 38, 1703-1713.	2.0	76
31	Overexpression of epidermal growth factor receptor in urothelium elicits urothelial hyperplasia and promotes bladder tumor growth. Cancer Research, 2002, 62, 4157-63.	0.9	76
32	Tamm-Horsfall protein-deficient thick ascending limbs promote injury to neighboring S3 segments in an MIP-2-dependent mechanism. American Journal of Physiology - Renal Physiology, 2011, 300, F999-F1007.	2.7	72
33	Organization of uroplakin subunits: transmembrane topology, pair formation and plaque composition. Biochemical Journal, 2001, 355, 13.	3.7	72
34	The histone deacetylase inhibitor belinostat (PXD101) suppresses bladder cancer cell growth in vitro and in vivo. Journal of Translational Medicine, 2007, 5, 49.	4.4	71
35	Uromodulin (Tamm–Horsfall protein): guardian of urinary and systemic homeostasis. Nephrology Dialysis Transplantation, 2020, 35, 33-43.	0.7	71
36	Tamm-Horsfall Protein Regulates Mononuclear Phagocytes in the Kidney. Journal of the American Society of Nephrology: JASN, 2018, 29, 841-856.	6.1	70

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37	Deficiency of pRb Family Proteins and p53 in Invasive Urothelial Tumorigenesis. Cancer Research, 2009, 69, 9413-9421.	0.9	69
38	Inhibition of Pyruvate Kinase M2 Markedly Reduces Chemoresistance of Advanced Bladder Cancer to Cisplatin. Scientific Reports, 2017, 7, 45983.	3.3	69
39	Estrogen Receptor Alpha Prevents Bladder Cancer Development via INPP4B inhibited Akt Pathway <i>in vitro</i> and <i>in vivo</i> . Oncotarget, 2014, 5, 7917-7935.	1.8	63
40	DETECTION OF CIRCULATING UROPLAKIN-POSITIVE CELLS IN PATIENTS WITH TRANSITIONAL CELL CARCINOMA OF THE BLADDER. Journal of Urology, 1999, 162, 931-935.	0.4	60
41	p53 deficiency provokes urothelial proliferation and synergizes with activated Ha-ras in promoting urothelial tumorigenesis. Oncogene, 2004, 23, 687-696.	5.9	59
42	Uromodulin upregulates TRPV5 by impairing caveolin-mediated endocytosis. Kidney International, 2013, 84, 130-137.	5.2	59
43	Anatomy and Physiology of the Urinary Tract: Relation to Host Defense and Microbial Infection. Microbiology Spectrum, 2015, 3, .	3.0	59
44	ATDC/TRIM29 Drives Invasive Bladder Cancer Formation through miRNA-Mediated and Epigenetic Mechanisms. Cancer Research, 2015, 75, 5155-5166.	0.9	59
45	The Chinese Herb Isolate Isorhapontigenin Induces Apoptosis in Human Cancer Cells by Down-regulating Overexpression of Antiapoptotic Protein XIAP. Journal of Biological Chemistry, 2012, 287, 35234-35243.	3.4	57
46	UROPLAKIN AND ANDROGEN RECEPTOR EXPRESSION IN THE HUMAN FETAL GENITAL TRACT: INSIGHTS INTO THE DEVELOPMENT OF THE VAGINA. Journal of Urology, 2000, 164, 1048-1051.	0.4	56
47	Episodic Aspiration with Oral Commensals Induces a MyD88-dependent, Pulmonary T-Helper Cell Type 17 Response that Mitigates Susceptibility to <i>Streptococcus pneumoniae</i> Respiratory and Critical Care Medicine, 2021, 203, 1099-1111.	5.6	55
48	Decreased DOC-2/DAB2 Expression in Urothelial Carcinoma of the Bladder. Clinical Cancer Research, 2007, 13, 4400-4406.	7.0	52
49	Tamm-Horsfall Protein Regulates Granulopoiesis and Systemic Neutrophil Homeostasis. Journal of the American Society of Nephrology: JASN, 2015, 26, 2172-2182.	6.1	51
50	MEG3, as a Competing Endogenous RNA, Binds with miR-27a to Promote PHLPP2 Protein Translation and Impairs Bladder Cancer Invasion. Molecular Therapy - Nucleic Acids, 2019, 16, 51-62.	5.1	50
51	Divergent behaviors and underlying mechanisms of cell migration and invasion in non-metastatic T24 and its metastatic derivative T24T bladder cancer cell lines. Oncotarget, 2015, 6, 522-536.	1.8	50
52	Lack of major involvement of human uroplakin genes in vesicoureteral reflux: Implications for disease heterogeneity. Kidney International, 2004, 66, 10-19.	5.2	49
53	Cyclin D1 Downregulation Contributes to Anticancer Effect of Isorhapontigenin on Human Bladder Cancer Cells. Molecular Cancer Therapeutics, 2013, 12, 1492-1503.	4.1	49
54	Biology of urothelial tumorigenesis: insights from genetically engineered mice. Cancer and Metastasis Reviews, 2009, 28, 281-290.	5.9	47

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55	Detection of circulating cancer cells expressing uroplakins and epidermal growth factor receptor in bladder cancer patients. International Journal of Cancer, 2004, 111, 934-939.	5.1	46
56	Urothelial umbrella cells of human ureter are heterogeneous with respect to their uroplakin composition: different degrees of urothelial maturity in ureter and bladder?. European Journal of Cell Biology, 2005, 84, 393-405.	3.6	46
57	XIAP overexpression promotes bladder cancer invasion <i>in vitro</i> and lung metastasis <i>in vivo via</i> enhancing nucleolinâ€mediated Rhoâ€GDlβ mRNA stability. International Journal of Cancer, 2018, 142, 2040-2055.	5.1	46
58	Cigarette side-stream smoke lung and bladder carcinogenesis: inducing mutagenic acrolein-DNA adducts, inhibiting DNA repair and enhancing anchorage-independent-growth cell transformation. Oncotarget, 2015, 6, 33226-33236.	1.8	46
59	Acrolein- and 4-Aminobiphenyl-DNA adducts in human bladder mucosa and tumor tissue and their mutagenicity in human urothelial cells. Oncotarget, 2014, 5, 3526-3540.	1.8	45
60	Isolation of mouse THP gene promoter and demonstration of its kidney-specific activity in transgenic mice. American Journal of Physiology - Renal Physiology, 2002, 282, F608-F617.	2.7	43
61	Tamm-Horsfall Protein Regulates Circulating and Renal Cytokines by Affecting Glomerular Filtration Rate and Acting as a Urinary Cytokine Trap. Journal of Biological Chemistry, 2012, 287, 16365-16378.	3.4	43
62	Uromodulin regulates renal magnesium homeostasis through the ion channel transient receptor potential melastatin 6 (TRPM6). Journal of Biological Chemistry, 2018, 293, 16488-16502.	3.4	43
63	<i>K-Ras</i> and <i<math>\hat{l}^2-catenin mutations cooperate with <i>Fgfr3</i> mutations in mice to promote tumorigenesis in the skin and lung, but not in the bladder. DMM Disease Models and Mechanisms, 2011, 4, 548-555.</i<math>	2.4	42
64	Inhibition and Reversal of Microbial Attachment by an Antibody with Parasteric Activity against the FimH Adhesin of Uropathogenic E. coli. PLoS Pathogens, 2015, 11, e1004857.	4.7	41
65	Gene deletion in urothelium by specific expression of Cre recombinase. American Journal of Physiology - Renal Physiology, 2005, 289, F562-F568.	2.7	40
66	Differential Expression of Cell Cycle Regulators in Phenotypic Variants of Transgenically Induced Bladder Tumors: Implications for Tumor Behavior. Cancer Research, 2005, 65, 1150-1157.	0.9	36
67	KAVA Chalcone, Flavokawain A, Inhibits Urothelial Tumorigenesis in the UPII-SV40T Transgenic Mouse Model. Cancer Prevention Research, 2013, 6, 1365-1375.	1.5	34
68	Variation of High Mannose Chains of Tamm-Horsfall Glycoprotein Confers Differential Binding to Type 1-fimbriated Escherichia coli. Journal of Biological Chemistry, 2004, 279, 216-222.	3.4	32
69	Uromodulin–SlpA binding dictates <i>Lactobacillus acidophilus</i> uptake by intestinal epithelial M cells. International Immunology, 2017, 29, 357-363.	4.0	32
70	XIAP BIR domain suppresses miR-200a expression and subsequently promotes EGFR protein translation and anchorage-independent growth of bladder cancer cell. Journal of Hematology and Oncology, 2017, 10, 6.	17.0	30
71	Role of STAT3 and FOXO1 in the Divergent Therapeutic Responses of Non-metastatic and Metastatic Bladder Cancer Cells to miR-145. Molecular Cancer Therapeutics, 2017, 16, 924-935.	4.1	30
72	On a FOX hunt: functions of FOX transcriptional regulators in bladder cancer. Nature Reviews Urology, 2017, 14, 98-106.	3.8	30

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73	Dominant role of CDKN2B/p15INK4B of 9p21.3 tumor suppressor hub in inhibition of cell-cycle and glycolysis. Nature Communications, 2021, 12, 2047.	12.8	30
74	Allelic loss of p53 gene is associated with genesis and maintenance, but not invasion, of mouse carcinoma in situ of the bladder. Cancer Research, 2003, 63, 179-85.	0.9	30
75	XIAP RING domain mediates miR-4295 expression and subsequently inhibiting p63 $\hat{l}$ ± protein translation and promoting transformation of bladder epithelial cells. Oncotarget, 2016, 7, 56540-56557.	1.8	29
76	Current Preclinical Models for the Advancement of Translational Bladder Cancer Research. Molecular Cancer Therapeutics, 2013, 12, 121-130.	4.1	28
77	Tamm-Horsfall protein/uromodulin deficiency elicits tubular compensatory responses leading to hypertension and hyperuricemia. American Journal of Physiology - Renal Physiology, 2018, 314, F1062-F1076.	2.7	28
78	Oncogenic HRAS Activates Epithelial-to-Mesenchymal Transition and Confers Stemness to <i>p53</i> -Deficient Urothelial Cells to Drive Muscle Invasion of Basal Subtype Carcinomas. Cancer Research, 2015, 75, 2017-2028.	0.9	27
79	Rho <scp>GDI</scp> β promotes Sp1/ <scp>MMP</scp> â€2 expression and bladder cancer invasion through perturbing miRâ€200câ€targeted <scp>JNK</scp> 2 protein translation. Molecular Oncology, 2017, 11, 1579-1594.	4.6	27
80	PHLPP2 stabilization by p27 mediates its inhibition of bladder cancer invasion by promoting autophagic degradation of MMP2 protein. Oncogene, 2018, 37, 5735-5748.	5.9	27
81	Molecular and Cellular Effects of Tamm-Horsfall Protein Mutations and Their Rescue by Chemical Chaperones. Journal of Biological Chemistry, 2012, 287, 1290-1305.	3.4	26
82	Hypermethylation of FOXA1 and allelic loss of PTEN drive squamous differentiation and promote heterogeneity in bladder cancer. Oncogene, 2020, 39, 1302-1317.	5.9	26
83	Lymphatic vessel density and function in experimental bladder cancer. BMC Cancer, 2007, 7, 219.	2.6	25
84	Loss of p27 upregulates MnSOD in a STAT3-dependent manner, disrupts intracellular redox activity and enhances cell migration. Journal of Cell Science, 2014, 127, 2920-33.	2.0	24
85	Sequential and compartmentalized action of Rabs, SNAREs, and MAL in the apical delivery of fusiform vesicles in urothelial umbrella cells. Molecular Biology of the Cell, 2016, 27, 1621-1634.	2.1	24
86	PKM2 Is Essential for Bladder Cancer Growth and Maintenance. Cancer Research, 2022, 82, 571-585.	0.9	24
87	SNX31: A Novel Sorting Nexin Associated with the Uroplakin-Degrading Multivesicular Bodies in Terminally Differentiated Urothelial Cells. PLoS ONE, 2014, 9, e99644.	2.5	23
88	p63α protein up-regulates heat shock protein 70 expression via E2F1 transcription factor 1, promoting Wasf3/Wave3/MMP9 signaling and bladder cancer invasion. Journal of Biological Chemistry, 2017, 292, 15952-15963.	3.4	23
89	Chemoprevention of Urothelial Cell Carcinoma Growth and Invasion by the Dual COX–LOX Inhibitor Licofelone in UPII-SV40T Transgenic Mice. Cancer Prevention Research, 2014, 7, 708-716.	1.5	21
90	Role of isoenzyme M2 of pyruvate kinase in urothelial tumorigenesis. Oncotarget, 2016, 7, 23947-23960.	1.8	21

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91	Comparison of the pathology of interstitial plaque in human ICSF stone patients to NHERF-1 and THP-null mice. Urological Research, 2010, 38, 439-452.	1.5	20
92	Urothelial tumor initiation requires deregulation of multiple signaling pathways: implications in target-based therapies. Carcinogenesis, 2012, 33, 770-780.	2.8	20
93	Mitochondrial lipid droplet formation as a detoxification mechanism to sequester and degrade excessive urothelial membranes. Molecular Biology of the Cell, 2019, 30, 2969-2984.	2.1	18
94	Characterization of Histone Deacetylase Expression Within In Vitro and In Vivo Bladder Cancer Model Systems. International Journal of Molecular Sciences, 2019, 20, 2599.	4.1	18
95	Inhibition of PHLPP2/cyclin D1 protein translation contributes to the tumor suppressive effect of NFκB2 (p100). Oncotarget, 2016, 7, 34112-34130.	1.8	18
96	Uromodulin deficiency alters tubular injury and interstitial inflammation but not fibrosis in experimental obstructive nephropathy. Physiological Reports, 2018, 6, e13654.	1.7	17
97	Interstitial calcinosis in renal papillae of genetically engineered mouse models: relation to Randall's plaques. Urolithiasis, 2015, 43, 65-76.	2.0	16
98	High Sensitivity of an Ha-RAS Transgenic Model of Superficial Bladder Cancer to Metformin Is Associated with â <sup>1</sup> / <sub>4</sub> 240-Fold Higher Drug Concentration in Urine than Serum. Molecular Cancer Therapeutics, 2016, 15, 430-438.	4.1	16
99	Temporally and spatially controllable gene expression and knockout in mouse urothelium. American Journal of Physiology - Renal Physiology, 2010, 299, F387-F395.	2.7	14
100	Targeting mTOR and p53 Signaling Inhibits Muscle Invasive Bladder Cancer <i>In Vivo</i> . Cancer Prevention Research, 2016, 9, 53-62.	1.5	14
101	Point mutation in D8C domain of Tamm-Horsfall protein/uromodulin in transgenic mice causes progressive renal damage and hyperuricemia. PLoS ONE, 2017, 12, e0186769.	2.5	14
102	Dual ligand/receptor interactions activate urothelial defenses against uropathogenic E. coli. Scientific Reports, 2015, 5, 16234.	3.3	13
103	Downregulation of miR-200c stabilizes XIAP mRNA and contributes to invasion and lung metastasis of bladder cancer. Cell Adhesion and Migration, 2019, 13, 235-247.	2.7	13
104	The kidney protects against sepsis by producing systemic uromodulin. American Journal of Physiology - Renal Physiology, 2022, 323, F212-F226.	2.7	12
105	Uroplakins play conserved roles in egg fertilization and acquired additional urothelial functions during mammalian divergence. Molecular Biology of the Cell, 2018, 29, 3128-3143.	2.1	11
106	The RING domain in the anti-apoptotic protein XIAP stabilizes c-Myc protein and preserves anchorage-independent growth of bladder cancer cells. Journal of Biological Chemistry, 2019, 294, 5935-5944.	3.4	9
107	Renal tubule-specific expression and urinary secretion of human growth hormone: a kidney-based transgenic bioreactor growth. Transgenic Research, 2003, 12, 155-162.	2.4	8
108	FGFR3b Extracellular Loop Mutation Lacks Tumorigenicity In Vivo but Collaborates with p53/pRB Deficiency to Induce High-grade Papillary Urothelial Carcinoma. Scientific Reports, 2016, 6, 25596.	3.3	8

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109	Maintenance of the bladder cancer precursor urothelial hyperplasia requires FOXA1 and persistent expression of oncogenic HRAS. Scientific Reports, 2019, 9, 270.	3.3	7
110	Tumorigenicity of RTK/RAS in urothelium. Oncoscience, 2015, 2, 739-740.	2.2	5
111	Uroplakins as Unique Tetraspanin Networks. , 2013, , 299-320.		4
112	Anatomy and Physiology of the Urinary Tract: Relation to Host Defense and Microbial Infection. , 0, , 1-25.		3
113	Attention to Detail by Single-cell Sequencing. European Urology, 2017, 71, 13-14.	1.9	1
114	Novel role of X-linked inhibitor of apoptosis protein (XIAP) in bladder cancer cell invasion and prediction of disease progression Journal of Clinical Oncology, 2014, 32, e15504-e15504.	1.6	1
115	Modeling Bladder Cancer with Genetic Engineering: Fidelity of Human-to-Laboratory Models. Molecular Pathology Library, 2018, , 221-237.	0.1	0
116	Ultrastructural Analysis of the Earliest Steps of Kidney Stone Formation: Insights into Novel Preventive Strategies. Microscopy and Microanalysis, 2020, 26, 1334-1335.	0.4	0
117	Allelic Variation of the FimH Lectin of Escherichia coli Type 1 Fimbriae and Uropathogenesis. , 0, , 351-377.		0
118	Abstract B24: ATDC (Trim29) drives invasive bladder cancer formation. , 2014, , .		0
119	Abstract 4653: Modulation of mTOR and p53 signaling using rapamycin plus CP-31398 inhibits growth and progression of urothelial carcinoma in-vivo. , 2015, , .		O