Robert E Hurst

List of Publications by Year in descending order

123 papers	3,162 citations	172443 29 h-index	189881 50 g-index
125 all docs	125 docs citations	125 times ranked	2729 citing authors

#	Article	IF	Citations
1	A Comparison of Multiple Urine Markers for Interstitial Cystitis. Journal of Urology, 2002, 167, 2461-2469.	0.4	161
2	ABNORMAL EXPRESSION OF MOLECULAR MARKERS FOR BLADDER IMPERMEABILITY AND DIFFERENTIATION IN THE UROTHELIUM OF PATIENTS WITH INTERSTITIAL CYSTITIS. Journal of Urology, 2004, 171, 1554-1558.	0.4	157
3	Analysis of sulfate in complex carbohydrates. Analytical Biochemistry, 1982, 123, 303-309.	2.4	142
4	A deficit of chondroitin sulfate proteoglycans on the bladder uroepithelium in interstitial cystitis. Urology, 1996, 48, 817-821.	1.0	123
5	Functional and Structural Characteristics of the Glycosaminoglycans of the Bladder Luminal Surface. Journal of Urology, 1987, 138, 433-437.	0.4	116
6	Abnormal Expression of Differentiation Related Proteins and Proteoglycan Core Proteins in the Urothelium of Patients With Interstitial Cystitis. Journal of Urology, 2008, 179, 764-769.	0.4	106
7	Unique patterns of molecular profiling between human prostate cancer LNCaP and PCâ€3 cells. Prostate, 2009, 69, 1077-1090.	2.3	82
8	Bladder Defense Molecules, Urothelial Differentiation, Urinary Biomarkers, and Interstitial Cystitis. Urology, 2007, 69, S17-S23.	1.0	80
9	Biomarker Risk Assessment and Bladder Cancer Detection in a Cohort Exposed to Benzidine. Journal of the National Cancer Institute, 2001, 93, 427-436.	6.3	78
10	Curcumin: A new radio-sensitizer of squamous cell carcinoma cells. Otolaryngology - Head and Neck Surgery, 2005, 132, 317-321.	1.9	77
11	Urinary Glycosaminoglycan Excretion as a Laboratory Marker in the Diagnosis of Interstitial Cystitis. Journal of Urology, 1993, 149, 31-35.	0.4	71
12	Identification of Proteoglycans Present at High Density on Bovine and Human Bladder Luminal Surface. Journal of Urology, 1994, 152, 1641-1645.	0.4	68
13	Bladder cancer risk assessment with quantitative fluorescence image analysis of tumor markers in exfoliated bladder cells. Cancer, 1993, 72, 2461-2469.	4.1	66
14	Development and Characterization of a Preclinical Model of Breast Cancer Lung Micrometastatic to Macrometastatic Progression. PLoS ONE, 2014, 9, e98624.	2.5	58
15	Mapping of the distribution of significant proteins and proteoglycans in small intestinal submucosa by fluorescence microscopy. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 1267-1279.	3.5	57
16	Elevated AKR1C3 expression promotes prostate cancer cell survival and prostate cell-mediated endothelial cell tube formation: implications for prostate cancer progressioan. BMC Cancer, 2010, 10, 672.	2.6	52
17	Structural basis for the anticoagulant activity of heparin. 1. Relationship to the number of charged groups. Biochemistry, 1979, 18, 4283-4287.	2.5	51
18	Decreased Urinary Uronic Acid Levels in Individuals with Interstitial Cystitis. Journal of Urology, 1990, 143, 690-693.	0.4	51

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19	Urothelial expression of neuropilins and VEGF receptors in control and interstitial cystitis patients. American Journal of Physiology - Renal Physiology, 2008, 295, F1613-F1623.	2.7	51
20	Restoring Barrier Function to Acid Damaged Bladder by Intravesical Chondroitin Sulfate. Journal of Urology, 2009, 182, 2477-2482.	0.4	49
21	Molecular study of sex steroid receptor gene expression in human colon and in colorectal carcinomas. , 1997, 64, 3-11.		47
22	Differentially expressed gene networks in cultured smooth muscle cells from normal and neuropathic bladder. Journal of Smooth Muscle Research, 2007, 43, 55-72.	1.2	45
23	VEGF receptors and neuropilins are expressed in the urothelial and neuronal cells in normal mouse urinary bladder and are upregulated in inflammation. American Journal of Physiology - Renal Physiology, 2008, 295, F60-F72.	2.7	45
24	Loss of tissue transglutaminase as a biomarker for prostate adenocarcinoma. Cancer, 2000, 89, 412-423.	4.1	42
25	Exogenous glycosaminoglycans coat damaged bladder surfaces in experimentally damaged mouse bladder. BMC Urology, 2005, 5, 4.	1.4	40
26	Intravesical Chondroitin Sulfate Inhibits Recruitment of Inflammatory Cells in an Acute Acid Damage â€œLeaky Bladderâ€•Model of Cystitis. Urology, 2012, 79, 483.e13-483.e17.	1.0	38
27	Phosphatidylserine targeted single-walled carbon nanotubes for photothermal ablation of bladder cancer. Nanotechnology, 2018, 29, 035101.	2.6	38
28	Increased bladder permeability in interstitial cystitis/painful bladder syndrome. Translational Andrology and Urology, 2015, 4, 563-571.	1.4	33
29	Matrix-dependent plasticity of the malignant phenotype of bladder cancer cells. Anticancer Research, 2003, 23, 3119-28.	1.1	33
30	Countercurrent Chromatography. Separation and Purification Reviews, 1974, 3, 133-165.	0.8	31
31	Regulatory network of inflammation downstream of proteinase-activated receptors. BMC Physiology, 2007, 7, 3.	3.6	29
32	Mechanisms of Visceral Organ Crosstalk: Importance of Alterations in Permeability in Rodent Models. Journal of Urology, 2015, 194, 804-811.	0.4	28
33	Biochemical composition and heterogeneity of heparan sulfates isolated from AH-130 ascites hepatoma cells and fluid. Biochimica Et Biophysica Acta - General Subjects, 1978, 538, 445-457.	2.4	27
34	Gene expression profiling of human alveolar macrophages infected by B. anthracisspores demonstrates TNF-Î± and NF-Î°b are key components of the innate immune response to the pathogen. BMC Infectious Diseases, 2009, 9, 152.	2.9	27
35	G-actin as a risk factor and modulatable endpoint for cancer chemoprevention trials. Journal of Cellular Biochemistry, 1996, 63, 197-204.	2.6	26
36	Abnormalities in Expression of Structural, Barrier and Differentiation Related Proteins, and Chondroitin Sulfate in Feline and Human Interstitial Cystitis. Journal of Urology, 2015, 194, 571-577.	0.4	26

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37	DNA cytometry and cytology by quantitative fluorescence image analysis in symptomatic bladder cancer patients. International Journal of Cancer, 1987, 40, 698-705.	5.1	25
38	Intermediate endpoint biomarkers for chemoprevention. Journal of Cellular Biochemistry, 1992, 50, 93-110.	2.6	25
39	Analysis of the interaction of extracellular matrix and phenotype of bladder cancer cells. BMC Cancer, 2006, 6, 12.	2.6	25
40	VEGF signaling mediates bladder neuroplasticity and inflammation in response to BCG. BMC Physiology, 2011, 11, 16.	3.6	25
41	A Feasibility Study to Determine Whether Clinical Contrast Enhanced Magnetic Resonance Imaging can Detect Increased Bladder Permeability in Patients with Interstitial Cystitis. Journal of Urology, 2016, 195, 631-638.	0.4	24
42	A method for the quantitative determination of urinary glycosaminoglycans. Clinica Chimica Acta, 1976, 70, 427-432.	1.1	23
43	Thermodynamics of mucopolysaccharide-dye binding. III. Thermodynamic and cooperativity parameters of acridine orange-heparin system. Biopolymers, 1979, 18, 493-505.	2.4	23
44	Mandatory role of proteinase-activated receptor 1 in experimental bladder inflammation. BMC Physiology, 2007, 7, 4.	3.6	23
45	Molecular networks discriminating mouse bladder responses to intravesical bacillus Calmette-Guerin (BCG), LPS, and TNF-Î±. BMC Immunology, 2008, 9, 4.	2.2	23
46	Does the biomarker search paradigm need re-booting?. BMC Urology, 2009, 9, 1.	1.4	23
47	Targeting dormant micrometastases: rationale, evidence to date and clinical implications. Therapeutic Advances in Medical Oncology, 2016, 8, 126-137.	3.2	23
48	Contrast Enhanced Magnetic Resonance Imaging as a Diagnostic Tool to Assess Bladder Permeability and Associated Colon Cross Talk: Preclinical Studies in a Rat Model. Journal of Urology, 2015, 193, 1394-1400.	0.4	22
49	Efficient activation of a visible light-activatable CA4 prodrug through intermolecular photo-unclick chemistry in mitochondria. Chemical Communications, 2017, 53, 1884-1887.	4.1	21
50	Neural net-based identification of cells expressing the p300 tumor-related antigen using fluorescence image analysis. Cytometry, 1997, 27, 36-42.	1.8	20
51	The inflammatory and normal transcriptome of mouse bladder detrusor and mucosa. BMC Physiology, 2006, 6, 1.	3.6	20
52	An accurate colorimetric method for measurement of sulfaminohexose in heparins and heparan sulfates. Analytical Biochemistry, 1981, 115, 88-92.	2.4	19
53	Thermodynamics of mucopolysaccharide-dye binding. II. Binding constant and cooperativity parameters of acridine orange-dermatan sulfate system. Biopolymers, 1977, 16, 695-702.	2.4	17
54	Biomarkers in Monitoring for Efficacy of Immunotherapy and Chemoprevention of Bladder Cancer with Dimethylsulfoxide. Cancer Detection and Prevention, 1999, 23, 163-171.	2.1	17

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55	Quantitative Fluorescence Image Analysis in Bladder Cancer Screening. Journal of Occupational and Environmental Medicine, 1990, 32, 822-828.	1.7	17
56	Partition techniques for isolation and fractionation of urinary glycosaminoglycans. Analytical Biochemistry, 1977, 79, 502-512.	2.4	16
57	Structural analysis of heparin by methylation and G.L.C.-M.S.: Preliminary results. Carbohydrate Research, 1984, 125, 291-300.	2.3	16
58	Thermodynamics of mucopolysaccharide-dye binding. I. Identification of free and bound dye via membrane filtration: Acridine orange-dermatan sulfate system. Biopolymers, 1977, 16, 685-693.	2.4	15
59	From microarray to biology: an integrated experimental, statistical and in silico analysis of how the extracellular matrix modulates the phenotype of cancer cells. BMC Bioinformatics, 2008, 9, S4.	2.6	15
60	A Comprehensive and Universal Method for Assessing the Performance of Differential Gene Expression Analyses. PLoS ONE, 2010, 5, e12657.	2.5	15
61	Suppression and Activation of the Malignant Phenotype by Extracellular Matrix in Xenograft Models of Bladder Cancer: A Model for Tumor Cell â€œDormancyâ€• PLoS ONE, 2013, 8, e64181.	2.5	15
62	Structural basis for the anticoagulant activity of heparin. 2. Relationship of anticoagulant activity to the thermodynamics and fluorescence fading kinetics of acridine orange-heparin complexes. Biochemistry, 1979, 18, 4288-4292.	2.5	14
63	The identification of a heparin-binding protein on the surface of bovine sperm. Biochemical and Biophysical Research Communications, 1988, 153, 289-293.	2.1	14
64	A model for 3-dimensional growth of bladder cancers to investigate cell-matrix interactions. Urologic Oncology: Seminars and Original Investigations, 2003, 21, 255-261.	1.6	14
65	Transcription factor network downstream of protease activated receptors (PARs) modulating mouse bladder inflammation. BMC Immunology, 2007, 8, 17.	2.2	14
66	The trimethylsilylation reactions of hexosamines, and gas-chromatographic separation of the derivatives. Carbohydrate Research, 1973, 30, 143-154.	2.3	13
67	A novel multidrug resistance phenotype of bladder tumor cells grown on Matrigel or SIS gel. Cancer Letters, 2005, 217, 171-180.	7.2	13
68	Temporal expression of hyaluronic acid and hyaluronic acid receptors in a porcine small intestinal submucosa-augmented rat bladder regeneration model. World Journal of Urology, 2015, 33, 1119-1128.	2.2	13
69	Singlet oxygen-activatable Paclitaxel prodrugs via intermolecular activation for combined PDT and chemotherapy. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 1537-1540.	2.2	13
70	Complexity, Retinoid-Responsive Gene Networks, and Bladder Carcinogenesis. Advances in Experimental Medicine and Biology, 1999, 462, 449-467.	1.6	13
71	Countercurrent Chromatographic Separation of Catecholamine Metabolites from Urine. Clinical Chemistry, 1972, 18, 814-820.	3.2	12
72	The partition behavior of complexes of glycosaminoglycans and quaternary ammonium salts. Biochemical and Biophysical Research Communications, 1974, 60, 1208-1214.	2.1	12

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73	Biophysical characteristics of anionic density-fractionated mucosal heparins in relation to potencies in anticoagulant and thrombin-inhibition assays. Thrombosis Research, 1981, 22, 633-643.	1.7	12
74	In the absence of overt urothelial damage, chondroitinase ABC digestion of the GAG layer increases bladder permeability in ovariectomized female rats. American Journal of Physiology - Renal Physiology, 2016, 310, F1074-F1080.	2.7	12
75	The partition of glycosaminoglycan-quaternary ammonium complexes. Biochimica Et Biophysica Acta - General Subjects, 1976, 444, 75-84.	2.4	11
76	Thermodynamics of the partition of chondroitin sulfate-hexadecylpyridinium complexes in butanol/aqueous salt biphasic solutions. Biopolymers, 1978, 17, 2601-2608.	2.4	11
77	Identification of novel drugs to target dormant micrometastases. BMC Cancer, 2015, 15, 404.	2.6	11
78	The partition of glycosaminoglycan-quarternary ammonium complexes II. The effects of polymer molecular weight and sulfation. Biochimica Et Biophysica Acta - General Subjects, 1977, 497, 539-547.	2.4	10
79	Heterogeneity in the composition of commercial heparins: Comparison of anticoagulant activities and biochemical compositions of anionic density-fractionated heparins. Thrombosis Research, 1982, 25, 255-265.	1.7	10
80	Expression of sex steroid receptor genes and comodulation with retinoid signaling in normal human uroepithelial cells and bladder cancer cell lines. Urologic Oncology: Seminars and Original Investigations, 1997, 3, 141-147.	1.6	10
81	Preclinical Animal Studies of Intravesical Recombinant Human Proteoglycan 4 as a Novel Potential Therapy for Diseases Resulting From Increased Bladder Permeability. Urology, 2018, 116, 230.e1-230.e7.	1.0	10
82	Sensitivity of bladder cancer cells to curcumin and its derivatives depends on the extracellular matrix. Anticancer Research, 2007, 27, 737-40.	1.1	10
83	Countercurrent chromatographyâ€"A new method for the fractionation of glycosaminoglycans. Analytical Biochemistry, 1978, 85, 230-238.	2.4	9
84	Expression of retinoid-responsive genes occurs in colorectal carcinoma-derived cells irrespective of the presence of resistance to all-trans retinoic acid. , 1997, 66, 156-167.		9
85	Retinoid signaling in immortalized and carcinoma-derived human uroepithelial cells. Molecular and Cellular Endocrinology, 1999, 148, 55-65.	3.2	9
86	Systems biology approach for mapping the response of human urothelial cells to infection by Enterococcus faecalis. BMC Bioinformatics, 2007, 8, S2.	2.6	9
87	Gene expression profiling of inflammatory bladder disorders. Expert Review of Molecular Diagnostics, 2003, 3, 217-235.	3.1	8
88	Proteome-level display by 2-dimensional chromatography of extracellular matrix-dependent modulation of the phenotype of bladder cancer cells. Proteome Science, 2006, 4, 13.	1.7	8
89	Tryptase Activation of Immortalized Human Urothelial Cell Mitogen-Activated Protein Kinase. PLoS ONE, 2013, 8, e69948.	2.5	8
90	Glycosaminoglycan excretion in osteogenesis imperfecta. Clinica Chimica Acta, 1980, 100, 307-311.	1.1	7

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91	A Deficit of Proteoglycans on the Bladder Uroepithelium in Interstitial Cystitis. European Urology Supplements, 2003, 2, 10-13.	0.1	7
92	Reduced urothelial regeneration in rat bladders augmented with permeable porcine small intestinal submucosa assessed by magnetic resonance imaging. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1778-1787.	3.4	7
93	Isolation and Characterization of Glycosaminoglycans from the Furth Murine Mastocytoma. Preparative Biochemistry and Biotechnology, 1978, 8, 37-56.	0.5	6
94	SuperGAG biopolymers for treatment of excessive bladder permeability. Pharmacology Research and Perspectives, 2021, 9, e00709.	2.4	6
95	Preparative Countercurrent Chromatography for Isolation of Charge Density-Fractionated Heparin. Preparative Biochemistry and Biotechnology, 1982, 12, 275-288.	0.5	5
96	Instrumentation, Accuracy, and Quality Control Issues in Development of Quantitative Fluorescence-Image Analysis (QFIA). , 1998, , 181-205.		5
97	System Level Changes in Gene Expression in Maturing Bladder Mucosa. Journal of Urology, 2011, 185, 1952-1958.	0.4	5
98	Dual sources of vitronectin in the human lower urinary tract: synthesis by urothelium vs. extravasation from the bloodstream. American Journal of Physiology - Renal Physiology, 2011, 300, F475-F487.	2.7	5
99	Sexually dimorphic effects of early life stress in rat pups on urinary bladder detrusor muscle contractility in adulthood. Biology of Sex Differences, 2016, 7, 8.	4.1	5
100	Selection and Development of Biomarkers for Bladder Cancer. , 1998, , 37-60.		5
101	High precision high-speed analysis for calcium and magnesium in serum and urine. Clinica Chimica Acta, 1973, 45, 105-107.	1.1	4
102	In vivo and ex vivo assessment of bladder hyper-permeability and using molecular targeted magnetic resonance imaging to detect claudin-2 in a mouse model for interstitial cystitis. PLoS ONE, 2020, 15, e0239282.	2.5	4
103	Assessing bladder hyper-permeability biomarkers using molecularly-targeted MRI. American Journal of Nuclear Medicine and Molecular Imaging, 2020, 10, 57-65.	1.0	4
104	5Î±-androstane-3Î±,17Î²-diol selectively activates the canonical PI3K/AKT pathway: a bioinformatics-based evidence for androgen-activated cytoplasmic signaling. Genomic Medicine, 2007, 1, 139-146.	0.3	3
105	Anticoagulant Activity, Anionic Density, and the Conformational Properties of Heparin. ACS Symposium Series, 1981, , 251-264.	0.5	3
106	Singlet Oxygen Activatable Prodrugs of Paclitaxel, SNâ€38, MMC and CA4: Nonmitochondriaâ€Targeted Prodrugs^{â€}. Photochemistry and Photobiology, 2022, 98, 389-399.	2.5	3
107	Early detection of colorectal cancer by quantitative fluorescence image analysis of exfoliated cells. American Journal of Surgery, 1990, 159, 172-177.	1.8	2
108	Impaired Expression of Prostaglandin E2 (PGE2) Synthesis and Degradation Enzymes during Differentiation of Immortalized Urothelial Cells from Patients with Interstitial Cystitis/Painful Bladder Syndrome. PLoS ONE, 2015, 10, e0129466.	2.5	2

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109	MRI as a Tool to Assess Interstitial Cystitis Associated Bladder and Brain Pathologies. Diagnostics, 2021, 11, 2298.	2.6	2
110	Effect of exogenous heparin on anchorage-independent growth of fibroblasts induced by transforming cytokines. Cancer Letters, 1993, 69, 197-202.	7.2	1
111	Chemical and Cytochemical Studies of Heparan Sulfates from AH-130 Ascites Hepatoma. , 1979, , 911-914.		1
112	Quantitative Fluorescence Image Analysis of Deoxyribonucleic Acid Ploidy in Urine From Normal Children. Journal of Urology, 1991, 145, 1236-1237.	0.4	0
113	The Phenotypically Suppressed Cancer Cell As a Therapeutic Target. American Journal of Pharmacology and Toxicology, 2006, 1, 72-78.	0.7	0
114	From Microarray to Biology. Systems Biology, 2010, , 85-107.	0.1	0
115	Early life stress induces bladder dysmotility in adult rats (1065.17). FASEB Journal, 2014, 28, 1065.17.	0.5	0
116	Title is missing!. , 2020, 15, e0239282.		0
117	Title is missing!. , 2020, 15, e0239282.		0
118	Title is missing!. , 2020, 15, e0239282.		0
119	Title is missing!. , 2020, 15, e0239282.		0
120	Title is missing!. , 2020, 15, e0239282.		0
121	Title is missing!. , 2020, 15, e0239282.		0
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123	Title is missing!. , 2020, 15, e0239282.		0