

Robert E Hurst

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119
papers

2,715
citations

28
h-index

47
g-index

125
ext. papers

2,922
ext. citations

3.3
avg, IF

4.4
L-index

#	Paper	IF	Citations
119	A Comparison of Multiple Urine Markers for Interstitial Cystitis. <i>Journal of Urology</i> , 2002 , 167, 2461-2469	2.5	142
118	Abnormal expression of molecular markers for bladder impermeability and differentiation in the urothelium of patients with interstitial cystitis. <i>Journal of Urology</i> , 2004 , 171, 1554-8	2.5	138
117	Analysis of sulfate in complex carbohydrates. <i>Analytical Biochemistry</i> , 1982 , 123, 303-9	3.1	130
116	A deficit of chondroitin sulfate proteoglycans on the bladder uroepithelium in interstitial cystitis. <i>Urology</i> , 1996 , 48, 817-21	1.6	107
115	Functional and structural characteristics of the glycosaminoglycans of the bladder luminal surface. <i>Journal of Urology</i> , 1987 , 138, 433-7	2.5	103
114	Abnormal expression of differentiation related proteins and proteoglycan core proteins in the urothelium of patients with interstitial cystitis. <i>Journal of Urology</i> , 2008 , 179, 764-9	2.5	94
113	Unique patterns of molecular profiling between human prostate cancer LNCaP and PC-3 cells. <i>Prostate</i> , 2009 , 69, 1077-90	4.2	69
112	Urinary glycosaminoglycan excretion as a laboratory marker in the diagnosis of interstitial cystitis. <i>Journal of Urology</i> , 1993 , 149, 31-5	2.5	67
111	Curcumin: a new radio-sensitizer of squamous cell carcinoma cells. <i>Otolaryngology - Head and Neck Surgery</i> , 2005 , 132, 317-21	5.5	66
110	Identification of proteoglycans present at high density on bovine and human bladder luminal surface. <i>Journal of Urology</i> , 1994 , 152, 1641-5	2.5	65
109	Biomarker risk assessment and bladder cancer detection in a cohort exposed to benzidine. <i>Journal of the National Cancer Institute</i> , 2001 , 93, 427-36	9.7	62
108	Bladder defense molecules, urothelial differentiation, urinary biomarkers, and interstitial cystitis. <i>Urology</i> , 2007 , 69, 17-23	1.6	60
107	Bladder cancer risk assessment with quantitative fluorescence image analysis of tumor markers in exfoliated bladder cells. <i>Cancer</i> , 1993 , 72, 2461-9	6.4	55
106	Mapping of the distribution of significant proteins and proteoglycans in small intestinal submucosa by fluorescence microscopy. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001 , 12, 1267-79	3.5	53
105	Structural basis for the anticoagulant activity of heparin. 1. Relationship to the number of charged groups. <i>Biochemistry</i> , 1979 , 18, 4283-7	3.2	49
104	Development and characterization of a preclinical model of breast cancer lung micrometastatic to macrometastatic progression. <i>PLoS ONE</i> , 2014 , 9, e98624	3.7	46
103	Urothelial expression of neuropilins and VEGF receptors in control and interstitial cystitis patients. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F1613-23	4.3	44

102	Restoring barrier function to acid damaged bladder by intravesical chondroitin sulfate. <i>Journal of Urology</i> , 2009 , 182, 2477-82	2.5	43
101	Molecular study of sex steroid receptor gene expression in human colon and in colorectal carcinomas. <i>Journal of Surgical Oncology</i> , 1997 , 64, 3-11	2.8	43
100	Decreased urinary uronic acid levels in individuals with interstitial cystitis. <i>Journal of Urology</i> , 1990 , 143, 690-3	2.5	42
99	Differentially expressed gene networks in cultured smooth muscle cells from normal and neuropathic bladder. <i>Journal of Smooth Muscle Research</i> , 2007 , 43, 55-72	0.4	41
98	Loss of tissue transglutaminase as a biomarker for prostate adenocarcinoma. <i>Cancer</i> , 2000 , 89, 412-23	6.4	41
97	Elevated AKR1C3 expression promotes prostate cancer cell survival and prostate cell-mediated endothelial cell tube formation: implications for prostate cancer progression. <i>BMC Cancer</i> , 2010 , 10, 672	4.8	40
96	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
95	Exogenous glycosaminoglycans coat damaged bladder surfaces in experimentally damaged mouse bladder. <i>BMC Urology</i> , 2005 , 5, 4	2.2	35
94	Intravesical chondroitin sulfate inhibits recruitment of inflammatory cells in an acute acid damage "leaky bladder" model of cystitis. <i>Urology</i> , 2012 , 79, 483.e13-7	1.6	32
93	Countercurrent Chromatography. <i>Separation and Purification Reviews</i> , 1974 , 3, 133-165		31
92	Phosphatidylserine targeted single-walled carbon nanotubes for photothermal ablation of bladder cancer. <i>Nanotechnology</i> , 2018 , 29, 035101	3.4	31
91	Matrix-dependent plasticity of the malignant phenotype of bladder cancer cells. <i>Anticancer Research</i> , 2003 , 23, 3119-28	2.3	28
90	Biochemical composition and heterogeneity of heparan sulfates isolated from AH-130 ascites hepatoma cells and fluid. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1978 , 538, 445-57	4	26
89	Regulatory network of inflammation downstream of proteinase-activated receptors. <i>BMC Physiology</i> , 2007 , 7, 3	0	25
88	A Feasibility Study to Determine Whether Clinical Contrast Enhanced Magnetic Resonance Imaging can Detect Increased Bladder Permeability in Patients with Interstitial Cystitis. <i>Journal of Urology</i> , 2016 , 195, 631-8	2.5	22
87	Molecular networks discriminating mouse bladder responses to intravesical bacillus Calmette-Guerin (BCG), LPS, and TNF-alpha. <i>BMC Immunology</i> , 2008 , 9, 4	3.7	22
86	Mandatory role of proteinase-activated receptor 1 in experimental bladder inflammation. <i>BMC Physiology</i> , 2007 , 7, 4	0	22
85	Analysis of the interaction of extracellular matrix and phenotype of bladder cancer cells. <i>BMC Cancer</i> , 2006 , 6, 12	4.8	22

84	Intermediate endpoint biomarkers for chemoprevention. <i>Journal of Cellular Biochemistry</i> , 1992 , 161, 93-110	1.9	22
83	Contrast enhanced magnetic resonance imaging as a diagnostic tool to assess bladder permeability and associated colon cross talk: preclinical studies in a rat model. <i>Journal of Urology</i> , 2015 , 193, 1394-400	2.5	21
82	Gene expression profiling of human alveolar macrophages infected by B. anthracis spores demonstrates TNF-alpha and NF-kappaB are key components of the innate immune response to the pathogen. <i>BMC Infectious Diseases</i> , 2009 , 9, 152	4	21
81	A method for the quantitative determination of urinary glycosaminoglycans. <i>Clinica Chimica Acta</i> , 1976 , 70, 427-32	6.2	21
80	Thermodynamics of mucopolysaccharide-dye binding. III. Thermodynamic and cooperativity parameters of acridine orange-heparin system. <i>Biopolymers</i> , 1979 , 18, 493-505	2.2	21
79	Increased bladder permeability in interstitial cystitis/painful bladder syndrome. <i>Translational Andrology and Urology</i> , 2015 , 4, 563-571	2.3	21
78	Mechanisms of Visceral Organ Crosstalk: Importance of Alterations in Permeability in Rodent Models. <i>Journal of Urology</i> , 2015 , 194, 804-11	2.5	20
77	VEGF signaling mediates bladder neuroplasticity and inflammation in response to BCG. <i>BMC Physiology</i> , 2011 , 11, 16	0	20
76	G-actin as a risk factor and modulatable endpoint for cancer chemoprevention trials. <i>Journal of Cellular Biochemistry</i> , 1996 , 63, 197-204	4.7	20
75	DNA cytometry and cytology by quantitative fluorescence image analysis in symptomatic bladder cancer patients. <i>International Journal of Cancer</i> , 1987 , 40, 698-705	7.5	20
74	Abnormalities in Expression of Structural, Barrier and Differentiation Related Proteins, and Chondroitin Sulfate in Feline and Human Interstitial Cystitis. <i>Journal of Urology</i> , 2015 , 194, 571-7	2.5	19
73	The inflammatory and normal transcriptome of mouse bladder detrusor and mucosa. <i>BMC Physiology</i> , 2006 , 6, 1	0	17
72	An accurate colorimetric method for measurement of sulfaminohexose in heparins and heparan sulfates. <i>Analytical Biochemistry</i> , 1981 , 115, 88-92	3.1	17
71	Biomarkers in monitoring for efficacy of immunotherapy and chemoprevention of bladder cancer with dimethylsulfoxide. <i>Cancer Detection and Prevention</i> , 1999 , 23, 163-71		17
70	Targeting dormant micrometastases: rationale, evidence to date and clinical implications. <i>Therapeutic Advances in Medical Oncology</i> , 2016 , 8, 126-37	5.4	16
69	Partition techniques for isolation and fractionation of urinary glycosaminoglycans. <i>Analytical Biochemistry</i> , 1977 , 79, 502-12	3.1	16
68	Efficient activation of a visible light-activatable CA4 prodrug through intermolecular photo-unclick chemistry in mitochondria. <i>Chemical Communications</i> , 2017 , 53, 1884-1887	5.8	15
67	Neural net-based identification of cells expressing the p300 tumor-related antigen using fluorescence image analysis. <i>Cytometry</i> , 1997 , 27, 36-42		15

66	Structural analysis of heparin by methylation and g.l.c.-m.s.: preliminary results. <i>Carbohydrate Research</i> , 1984 , 125, 291-300	2.9	15
65	Thermodynamics of mucopolysaccharide-dye binding. II. Binding constant and cooperativity parameters of acridine orange-dermatan sulfate system. <i>Biopolymers</i> , 1977 , 16, 695-702	2.2	15
64	A comprehensive and universal method for assessing the performance of differential gene expression analyses. <i>PLoS ONE</i> , 2010 , 5, e12657	3.7	14
63	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. <i>Biochemistry</i> , 1979 , 18, 4288-92	3.2	14
62	Thermodynamics of mucopolysaccharide-dye binding. I. Identification of free and bound dye via membrane filtrations: acridine orange-dermatan sulfate system. <i>Biopolymers</i> , 1977 , 16, 685-93	2.2	14
61	Quantitative fluorescence image analysis in bladder cancer screening. <i>Journal of Occupational and Environmental Medicine</i> , 1990 , 32, 822-8	2	14
60	Temporal expression of hyaluronic acid and hyaluronic acid receptors in a porcine small intestinal submucosa-augmented rat bladder regeneration model. <i>World Journal of Urology</i> , 2015 , 33, 1119-28	4	13
59	Transcription factor network downstream of protease activated receptors (PARs) modulating mouse bladder inflammation. <i>BMC Immunology</i> , 2007 , 8, 17	3.7	13
58	The identification of a heparin-binding protein on the surface of bovine sperm. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 153, 289-93	3.4	13
57	Suppression and activation of the malignant phenotype by extracellular matrix in xenograft models of bladder cancer: a model for tumor cell "dormancy". <i>PLoS ONE</i> , 2013 , 8, e64181	3.7	13
56	A novel multidrug resistance phenotype of bladder tumor cells grown on Matrigel or SIS gel. <i>Cancer Letters</i> , 2005 , 217, 171-80	9.9	12
55	Identification of novel drugs to target dormant micrometastases. <i>BMC Cancer</i> , 2015 , 15, 404	4.8	11
54	The partition behavior of complexes of glycosaminoglycans and quaternary ammonium salts. <i>Biochemical and Biophysical Research Communications</i> , 1974 , 60, 1208-14	3.4	11
53	Thermodynamics of the partition of chondroitin sulfate-hexadecylpyridinium complexes in butanol/aqueous salt biphasic solutions. <i>Biopolymers</i> , 1978 , 17, 2601-2608	2.2	11
52	Countercurrent Chromatographic Separation of Catecholamine Metabolites from Urine. <i>Clinical Chemistry</i> , 1972 , 18, 814-820	5.5	11
51	Expression of sex steroid receptor genes and comodulation with retinoid signaling in normal human uroepithelial cells and bladder cancer cell lines. <i>Urologic Oncology: Seminars and Original Investigations</i> , 1997 , 3, 141-7	2.8	10
50	A model for 3-dimensional growth of bladder cancers to investigate cell-matrix interactions. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2003 , 21, 255-61	2.8	10
49	Biophysical characteristics of anionic density-fractionated mucosal heparins in relation to potencies in anticoagulant and thrombin-inhibition assays. <i>Thrombosis Research</i> , 1981 , 22, 633-43	8.2	10

48	The partition of glycosaminoglycan-quaternary ammonium complexes. I. The effect of phase composition. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1976 , 444, 75-84	4	10
47	Complexity, retinoid-responsive gene networks, and bladder carcinogenesis. <i>Advances in Experimental Medicine and Biology</i> , 1999 , 462, 449-67	3.6	10
46	Expression of retinoid-responsive genes occurs in colorectal carcinoma-derived cells irrespective of the presence of resistance to all-trans retinoic acid. <i>Journal of Surgical Oncology</i> , 1997 , 66, 156-67	2.8	9
45	Heterogeneity in the composition of commercial heparins: comparison of anticoagulant activities and biochemical compositions of anionic density-fractionated heparins. <i>Thrombosis Research</i> , 1982 , 25, 255-65	8.2	9
44	The partition of glycosaminoglycan-quaternary ammonium complexes, II. The effects of polymer molecular weight and sulfation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1977 , 497, 539-47	4	9
43	Countercurrent chromatography--a new method for the fractionation of glycosaminoglycans. <i>Analytical Biochemistry</i> , 1978 , 85, 230-8	3.1	9
42	The trimethylsilylation reactions of hexosamines, and gas-chromatographic separation of the derivatives. <i>Carbohydrate Research</i> , 1973 , 30, 143-54	2.9	9
41	Gene expression profiling of inflammatory bladder disorders. <i>Expert Review of Molecular Diagnostics</i> , 2003 , 3, 217-35	3.8	8
40	Retinoid signaling in immortalized and carcinoma-derived human uroepithelial cells. <i>Molecular and Cellular Endocrinology</i> , 1999 , 148, 55-65	4.4	8
39	Sensitivity of bladder cancer cells to curcumin and its derivatives depends on the extracellular matrix. <i>Anticancer Research</i> , 2007 , 27, 737-40	2.3	8
38	Preclinical Animal Studies of Intravesical Recombinant Human Proteoglycan 4 as a Novel Potential Therapy for Diseases Resulting From Increased Bladder Permeability. <i>Urology</i> , 2018 , 116, 230.e1-230.e7	1.6	7
37	Tryptase activation of immortalized human urothelial cell mitogen-activated protein kinase. <i>PLoS ONE</i> , 2013 , 8, e69948	3.7	7
36	Proteome-level display by 2-dimensional chromatography of extracellular matrix-dependent modulation of the phenotype of bladder cancer cells. <i>Proteome Science</i> , 2006 , 4, 13	2.6	7
35	A Deficit of Proteoglycans on the Bladder Uroepithelium in Interstitial Cystitis. <i>European Urology Supplements</i> , 2003 , 2, 10-13	0.9	7
34	In the absence of overt urothelial damage, chondroitinase ABC digestion of the GAG layer increases bladder permeability in ovariectomized female rats. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 310, F1074-80	4.3	7
33	Systems biology approach for mapping the response of human urothelial cells to infection by <i>Enterococcus faecalis</i> . <i>BMC Bioinformatics</i> , 2007 , 8 Suppl 7, S2	3.6	6
32	Glycosaminoglycan excretion in osteogenesis imperfecta. <i>Clinica Chimica Acta</i> , 1980 , 100, 307-11	6.2	6
31	Singlet oxygen-activatable Paclitaxel prodrugs via intermolecular activation for combined PDT and chemotherapy. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 1537-1540	2.9	5

30	Reduced urothelial regeneration in rat bladders augmented with permeable porcine small intestinal submucosa assessed by magnetic resonance imaging. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 1778-1787	3.5	5
29	Sexually dimorphic effects of early life stress in rat pups on urinary bladder detrusor muscle contractility in adulthood. <i>Biology of Sex Differences</i> , 2016 , 7, 8	9.3	5
28	Preparative countercurrent chromatography for isolation of charge density-fractionated heparin. <i>Preparative Biochemistry and Biotechnology</i> , 1982 , 12, 275-88		5
27	From microarray to biology: an integrated experimental, statistical and in silico analysis of how the extracellular matrix modulates the phenotype of cancer cells. <i>BMC Bioinformatics</i> , 2008 , 9 Suppl 9, S4	3.6	4
26	Instrumentation, Accuracy, and Quality Control Issues in Development of Quantitative Fluorescence-Image Analysis (QFIA) 1998 , 181-205		4
25	Isolation and characterization of glycosaminoglycans from the Furth murine mastocytoma. <i>Preparative Biochemistry and Biotechnology</i> , 1978 , 8, 37-56		4
24	High precision high-speed analysis for calcium and magnesium in serum and urine. <i>Clinica Chimica Acta</i> , 1973 , 45, 105-7	6.2	4
23	Selection and Development of Biomarkers for Bladder Cancer 1998 , 37-60		4
22	System level changes in gene expression in maturing bladder mucosa. <i>Journal of Urology</i> , 2011 , 185, 1952-8	2.5	3
21	Dual sources of vitronectin in the human lower urinary tract: synthesis by urothelium vs. extravasation from the bloodstream. <i>American Journal of Physiology - Renal Physiology</i> , 2011 , 300, F475-87	4.3	3
20	5alpha-androstane-3alpha,17beta-diol selectively activates the canonical PI3K/AKT pathway: a bioinformatics-based evidence for androgen-activated cytoplasmic signaling. <i>Genomic Medicine</i> , 2007 , 1, 139-46		3
19	Assessing bladder hyper-permeability biomarkers using molecularly-targeted MRI. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2020 , 10, 57-65	2.2	3
18	Anticoagulant Activity, Anionic Density, and the Conformational Properties of Heparin. <i>ACS Symposium Series</i> , 1981 , 251-264	0.4	3
17	Impaired Expression of Prostaglandin E2 (PGE2) Synthesis and Degradation Enzymes during Differentiation of Immortalized Urothelial Cells from Patients with Interstitial Cystitis/Painful Bladder Syndrome. <i>PLoS ONE</i> , 2015 , 10, e0129466	3.7	2
16	Early detection of colorectal cancer by quantitative fluorescence image analysis of exfoliated cells. <i>American Journal of Surgery</i> , 1990 , 159, 172-6; discussion 176-7	2.7	2
15	SuperGAG biopolymers for treatment of excessive bladder permeability. <i>Pharmacology Research and Perspectives</i> , 2021 , 9, e00709	3.1	2
14	Effect of exogenous heparin on anchorage-independent growth of fibroblasts induced by transforming cytokines. <i>Cancer Letters</i> , 1993 , 69, 197-202	9.9	1
13	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. <i>PLoS ONE</i> , 2020 , 15, e0239282	3.7	1

- 12 Chemical and Cytochemical Studies of Heparan Sulfates from AH-130 Ascites Hepatoma **1979**, 911-914 1
- 11 Quantitative fluorescence image analysis of deoxyribonucleic acid ploidy in urine from normal children. *Journal of Urology*, **1991**, 145, 1236-7 2.5
- 10 Early life stress induces bladder dysmotility in adult rats (1065.17). *FASEB Journal*, **2014**, 28, 1065.17 0.9
- 9 From Microarray to Biology. *Systems Biology*, **2010**, 85-107
- 8 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 **2020**, 15, e0239282
- 7 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 **2020**, 15, e0239282
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- 2 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 **2020**, 15, e0239282
- 1 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 **2020**, 15, e0239282