Barry H Hirst

List of Publications by Year
in descending order

74 papers	4,794 citations	94433 37 h-index	91884 69 g-index
74 all docs	74 docs citations	74 times ranked	3903 citing authors

#	Article	IF	Citations
1	The ABCs of drug transport in intestine and liver: efflux proteins limiting drug absorption and bioavailability. European Journal of Pharmaceutical Sciences, 2004, 21, 25-51.	4.0	531
2	M-Cell Surface Î²1 Integrin Expression and Invasin-Mediated Targeting of Yersinia pseudotuberculosis to Mouse Peyerâ€™s Patch M Cells. Infection and Immunity, 1998, 66, 1237-1243.	2.2	322
3	Intestinal secretion of drugs. The role of P-glycoprotein and related drug efflux systems in limiting oral drug absorption. Advanced Drug Delivery Reviews, 1997, 25, 129-157.	13.7	253
4	Exploiting M cells for drug and vaccine delivery. Advanced Drug Delivery Reviews, 2001, 50, 81-106.	13.7	228
5	Lectin-mediated mucosal delivery of drugs and microparticles. Advanced Drug Delivery Reviews, 2000, 43, 207-223.	13.7	211
6	Drug absorption limited by P-glycoprotein-mediated secretory drug transport in human intestinal epithelial Caco-2 cell layers. Pharmaceutical Research, 1993, 10, 743-749.	3.5	195
7	Pili mediate specific adhesion of Streptococcus pyogenes to human tonsil and skin. Cellular Microbiology, 2007, 9, 1822-1833.	2.1	177
8	Ulex europaeus 1 lectin targets microspheres to mouse Peyer's patch M-cells in vivo. Vaccine, 1998, 16, 536-541.	3.8	147
9	Increased tyrosine phosphorylation causes redistribution of adherens junction and tight junction proteins and perturbs paracellular barrier function in MDCK epithelia. European Journal of Cell Biology, 1998, 76, 85-92.	3.6	136
10	Substrate upregulation of the human small intestinal peptide transporter, hPepT1. Journal of Physiology, 1998, 507, 697-706.	2.9	130
11	Differential Multidrug Resistance-Associated Protein 1 through 6 Isoform Expression and Function in Human Intestinal Epithelial Caco-2 Cells. Journal of Pharmacology and Experimental Therapeutics, 2004, 311, 476-484.	2.5	123
12	Selective binding and transcytosis of latex microspheres by rabbit intestinal M cells. Cell and Tissue Research, 1993, 271, 399-405.	2.9	118
13	Targeting polymerised liposome vaccine carriers to intestinal M cells. Vaccine, 2001, 20, 208-217.	3.8	117
14	M cell targeting by lectins: a strategy for mucosal vaccination and drug delivery. Advanced Drug Delivery Reviews, 2004, 56, 511-525.	13.7	117
15	Comparison of Poly(DL-Lactide-co-Glycolide) and Polystyrene Microsphere Targeting to Intestinal M Cells. Journal of Drug Targeting, 1993, 1, 245-249.	4.4	115
16	The rat mucosal mast cell chymase, RMCP-11, alters epithelial cell monolayer permeability in association with altered distribution of the tight junction proteins ZO-1 and occludin. European Journal of Cell Biology, 1998, 75, 321-330.	3.6	99
17	Selective binding and transcytosis of Ulex europaeus 1 lectin by mouse Peyer's patch M-cells in vivo. Cell and Tissue Research, 1995, 282, 455-461.	2.9	89
18	Characterization of human purified epithelial and stromal cells from endometrium and endometriosis in tissue culture. Fertility and Sterility, 1992, 57, 990-997.	1.0	79

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19	Paracellular barrier and junctional protein distribution depend on basolateral extracellular Ca2+ in cultured epithelia. Biochimica Et Biophysica Acta - Molecular Cell Research, 1994, 1222, 147-158.	4.1	75
20	Angiotensinâ€converting enzyme (ACE) inhibitor transport in human intestinal epithelial (Caco2) cells. British Journal of Pharmacology, 1995, 114, 981-986.	5.4	75
21	Inoculum Composition and Salmonella Pathogenicity Island 1 Regulate M-Cell Invasion and Epithelial Destruction by Salmonella typhimurium. Infection and Immunity, 1998, 66, 724-731.	2.2	75
22	H+-coupled dipeptide (glycylsarcosine) transport across apical and basal borders of human intestinal Caco-2 cell monolayers display distinctive characteristics. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1151, 237-245.	2.6	72
23	Differential surface characteristics of M cells from mouse intestinal Peyer's and caecal patches. The Histochemical Journal, 1994, 26, 271-280.	0.6	63
24	Exploiting receptor biology for oral vaccination with biodegradable particulates. Advanced Drug Delivery Reviews, 2005, 57, 431-450.	13.7	62
25	Manipulation of the Repertoire of Digestive Enzymes Secreted into the Gastrointestinal Tract of Transgenic Mice. Bio/technology, 1993, 11, 376-379.	1.5	61
26	H+-coupled (Na+-independent) proline transport in human intestinal (Caco-2) epithelial cell monolayers. FEBS Letters, 1993, 333, 78-82.	2.8	59
27	Active secretion of the fluoroquinolone ciprofloxacin by human intestinal epithelial Cacoâ€2 cell layers. British Journal of Pharmacology, 1993, 108, 575-576.	5.4	59
28	Substrate specificity of the di/tripeptide transporter in human intestinal epithelia (Cacoâ€2): identification of substrates that undergo H⁺â€coupled absorption. British Journal of Pharmacology, 1994, 113, 1050-1056.	5.4	59
29	Identification of M cells and their distribution in rabbit intestinal Peyer's patches and appendix. Cell and Tissue Research, 1993, 273, 127-136.	2.9	56
30	Glycine transporter GLYT1 is essential for glycine-mediated protection of human intestinal epithelial cells against oxidative damage. Journal of Physiology, 2010, 588, 995-1009.	2.9	48
31	Roles of Minor Pilin Subunits Spy0125 and Spy0130 in the Serotype M1 Streptococcus pyogenes Strain SF370. Journal of Bacteriology, 2010, 192, 4651-4659.	2.2	48
32	Increased Expression of Specific Intestinal Amino Acid and Peptide Transporter mRNA in Rats Fed by TPN Is Reversed by GLP-2. Journal of Nutrition, 2004, 134, 2957-2964.	2.9	47
33	Passive transepithelial absorption of thyrotropin-releasing hormone (TRH) via a paracellular route in cultured intestinal and renal epithelial cell lines. Pharmaceutical Research, 1993, 10, 674-681.	3.5	45
34	Lectin binding defines and differentiates M-cells in mouse small intestine and caecum. Histochemistry and Cell Biology, 1995, 104, 161-168.	1.7	43
35	Expression of junction-associated proteins differentiates mouse intestinal MÂcells from enterocytes. Histochemistry and Cell Biology, 2002, 118, 137-147.	1.7	41
36	Dâ€Cycloserine transport in human intestinal epithelial (Cacoâ€2) cells: mediation by a H ⁺ â€coupled amino acid transporter. British Journal of Pharmacology, 1995, 115, 761-766.	5.4	39

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37	Variations in Lectin Binding Properties of Intestinal M Cells. Journal of Drug Targeting, 1995, 3, 75-77.	4.4	37
38	Expression of the peptide transporter hPepT1 in human colon: a potential route for colonic protein nitrogen and drug absorption. Histochemistry and Cell Biology, 2003, 119, 37-43.	1.7	36
39	Predicting oral drug absorption and hepatobiliary clearance: Human intestinal and hepatic in vitro cell models. Environmental Toxicology and Pharmacology, 2006, 21, 168-178.	4.0	33
40	Polarized efflux of 2â€²,7â€²-bis(2-carboxyethyl)-5(6)-carboxyfluorescein from cultured epithelial cell monolayers. Biochemical Pharmacology, 1992, 44, 417-424.	4.4	32
41	Physiology: Ion transport by human endometrial epithelia in vitro. Human Reproduction, 1993, 8, 1570-1575.	0.9	32
42	Comparison of Poly(dl-Lactide-co-glycolide) and Polystyrene Microsphere Targeting to Intestinal M Cells. Journal of Drug Targeting, 2003, 11, 269-272.	4.4	31
43	Transepithelial dipeptide (glycylsarcosine) transport across epithelial monolayers of human Caco-2 cells is rheogenic. Pflugers Archiv European Journal of Physiology, 1993, 425, 178-180.	2.8	29
44	Cell-Contact-Stimulated Formation of Filamentous Appendages by Salmonella typhimurium Does Not Depend on the Type III Secretion System Encoded by Salmonella Pathogenicity Island 1. Infection and Immunity, 1998, 66, 2007-2017.	2.2	26
45	Differential cytokeratin and glycoconjugate expression by the surface and crypt epithelia of human palatine tonsils. Histochemistry and Cell Biology, 2000, 114, 311-321.	1.7	25
46	Glycine supply to human enterocytes mediated by high-affinity basolateral GLYT1. Gastroenterology, 2001, 120, 439-448.	1.3	23
47	Co-culture of two MDCK strains with distinct junctional protein expression: a model for intercellular junction rearrangement and cell sorting. Cell and Tissue Research, 1998, 291, 267-276.	2.9	21
48	P-glycoprotein Potentiates CYP3A4-mediated Drug Disappearance during Caco-2 Intestinal Secretory Detoxification. Journal of Drug Targeting, 2004, 12, 405-413.	4.4	20
49	Secretin and the exposition of hormonal control. Journal of Physiology, 2004, 560, 339-339.	2.9	20
50	Autocrine growth stimulation of human renal Wilms' tumour G401 cells by a gastrin-like peptide. International Journal of Cancer, 1994, 57, 385-391.	5.1	19
51	Bacterial xylanase expression in mammalian cells and transgenic mice. Journal of Biotechnology, 1999, 72, 95-101.	3.8	18
52	Secretion of a prokaryotic cellulase in bacterial and mammalian cells. Gene, 1993, 125, 85-89.	2.2	17
53	Absorptive apical amiloride-sensitive Na+conductance in human endometrial epithelium. Journal of Physiology, 1998, 513, 443-452.	2.9	17
54	Transepithelial vinblastine secretion mediated by P-glycoprotein is inhibited by forskolin derivatives. Biochemical and Biophysical Research Communications, 1991, 181, 671-676.	2.1	16

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55	A protein targeting signal that functions in polarized epithelial cells in vivo. Biochemical Journal, 1996, 315, 857-862.	3.7	16
56	Thyrotropin-releasing hormone (TRH) uptake in intestinal brush-border membrane vesicles: comparison with proton-coupled dipeptide and Na(+)-coupled glucose transport. Pharmaceutical Research, 1993, 10, 667-673.	3.5	14
57	Bradykinin stimulation of electrogenic ion transport in epithelial layers of cultured human endometrium. Pflugers Archiv European Journal of Physiology, 1993, 422, 401-403.	2.8	13
58	Water transport controversies â€“ an overview. Journal of Physiology, 2002, 542, 1-2.	2.9	13
59	Who's talking to whom? Epithelial-bacterial pathogen interactions. Molecular Microbiology, 2004, 55, 655-663.	2.5	12
60	Enterocytes in the follicle-associated epithelia of rabbit small intestine display distinctive lectin-binding properties. Histochemistry, 1995, 103, 131-134.	1.9	11
61	Heterogenous Na+, K+-ATPase expression in the epithelia of rabbit gut-associated lymphoid tissues. Pflugers Archiv European Journal of Physiology, 1994, 427, 343-347.	2.8	9
62	Antibiotic exposure does not influence MRP2 functional expression in Caco-2 cells. Journal of Drug Targeting, 2005, 13, 1-6.	4.4	9
63	The novel avian protein, AWAK, contains multiple domains with homology to protease inhibitory modules. Molecular Immunology, 2006, 43, 388-394.	2.2	9
64	Selective binding and transcytosis of Ulex europaeus 1 lectin by mouse Peyer?s patch M-cells in vivo. Cell and Tissue Research, 1995, 282, 455-461.	2.9	9
65	Co-integration and expression of bacterial and genomic transgenes in the pancreatic and intestinal tissues of transgenic mice. Gene, 1997, 202, 203-208.	2.2	5
66	K + recycling and gastric acid secretion. Journal of Physiology, 2002, 540, 1-1.	2.9	3
67	Parietal cell membrane trafficking Focus on â€œExpression of rab11a N124I in gastric parietal cells inhibits stimulatory recruitment of the H+-K+-ATPaseâ€• American Journal of Physiology - Cell Physiology, 1999, 277, C359-C360.	4.6	2
68	Reduction of Rapid Proliferating Tumour Cell Lines by Inhibition of the Specific Glycine Transporter GLYT1. Biomedicines, 2021, 9, 1770.	3.2	2
69	Postgraduate opportunities in research at NEAS. Journal of Paramedic Practice: the Clinical Monthly for Emergency Care Professionals, 2010, 2, 230-232.	0.1	1
70	Fade and tachyphylaxis of gastric acid secretory response to pentagastrin in rat isolated gastric mucosa. British Journal of Pharmacology, 1988, 95, 1047-1056.	5.4	0
71	Vectorial secretion of granulocyte-macrophage colony stimulating factor (GM-CSF) by human endometrial epithelial cells: implications for the control of intrauterine events. Journal of Reproductive Immunology, 1997, 34, 51-52.	1.9	0
72	Editorial overview: New technologies: drug delivery and medical devices combinations, more than the sum of the parts. Current Opinion in Pharmacology, 2017, 36, iv-vii.	3.5	0

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73	GASTROINTESTINAL EPITHELIUM: OPPORTUNITIES AND OBSTACLES TO XENOBIOTIC ABSORPTION. Drug Metabolism and Pharmacokinetics, 1995, 10, 50-53.	0.0	0
74	Expression of the glycine transporter type 1 (GlyTâ€1A) is upregulated by ATFâ€4 following physiological stress in human intestinal epithelial cells (1109.14). FASEB Journal, 2014, 28, 1109.14.	0.5	0