

# Barry H Hirst

## List of Publications by Citations

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71  
papers

4,170  
citations

35  
h-index

64  
g-index

74  
ext. papers

4,387  
ext. citations

5.4  
avg, IF

4.98  
L-index

#	Paper	IF	Citations
71	The ABCs of drug transport in intestine and liver: efflux proteins limiting drug absorption and bioavailability. <i>European Journal of Pharmaceutical Sciences</i> , <b>2004</b> , 21, 25-51	5.1	482
70	M-cell surface beta1 integrin expression and invasion-mediated targeting of Yersinia pseudotuberculosis to mouse Peyer's patch M cells. <i>Infection and Immunity</i> , <b>1998</b> , 66, 1237-43	3.7	278
69	Intestinal secretion of drugs. The role of P-glycoprotein and related drug efflux systems in limiting oral drug absorption. <i>Advanced Drug Delivery Reviews</i> , <b>1997</b> , 25, 129-157	18.5	220
68	Exploiting M cells for drug and vaccine delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2001</b> , 50, 81-106	18.5	208
67	Lectin-mediated mucosal delivery of drugs and microparticles. <i>Advanced Drug Delivery Reviews</i> , <b>2000</b> , 43, 207-23	18.5	180
66	Drug absorption limited by P-glycoprotein-mediated secretory drug transport in human intestinal epithelial Caco-2 cell layers. <i>Pharmaceutical Research</i> , <b>1993</b> , 10, 743-9	4.5	171
65	Pili mediate specific adhesion of Streptococcus pyogenes to human tonsil and skin. <i>Cellular Microbiology</i> , <b>2007</b> , 9, 1822-33	3.9	159
64	Increased tyrosine phosphorylation causes redistribution of adherens junction and tight junction proteins and perturbs paracellular barrier function in MDCK epithelia. <i>European Journal of Cell Biology</i> , <b>1998</b> , 76, 85-92	6.1	131
63	Substrate upregulation of the human small intestinal peptide transporter, hPepT1. <i>Journal of Physiology</i> , <b>1998</b> , 507 ( Pt 3), 697-706	3.9	118
62	Ulex europaeus 1 lectin targets microspheres to mouse Peyer's patch M-cells in vivo. <i>Vaccine</i> , <b>1998</b> , 16, 536-41	4.1	116
61	Differential multidrug resistance-associated protein 1 through 6 isoform expression and function in human intestinal epithelial Caco-2 cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2004</b> , 311, 476-84	4.7	113
60	Comparison of poly(DL-lactide-co-glycolide) and polystyrene microsphere targeting to intestinal M cells. <i>Journal of Drug Targeting</i> , <b>1993</b> , 1, 245-9	5.4	107
59	M cell targeting by lectins: a strategy for mucosal vaccination and drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2004</b> , 56, 511-25	18.5	104
58	Targeting polymerised liposome vaccine carriers to intestinal M cells. <i>Vaccine</i> , <b>2001</b> , 20, 208-17	4.1	100
57	Selective binding and transcytosis of latex microspheres by rabbit intestinal M cells. <i>Cell and Tissue Research</i> , <b>1993</b> , 271, 399-405	4.2	95
56	The rat mucosal mast cell chymase, RMCP-II, alters epithelial cell monolayer permeability in association with altered distribution of the tight junction proteins ZO-1 and occludin. <i>European Journal of Cell Biology</i> , <b>1998</b> , 75, 321-30	6.1	89
55	Selective binding and transcytosis of Ulex europaeus 1 lectin by mouse Peyer's patch M-cells in vivo. <i>Cell and Tissue Research</i> , <b>1995</b> , 282, 455-61	4.2	79

54	Characterization of human purified epithelial and stromal cells from endometrium and endometriosis in tissue culture. <i>Fertility and Sterility</i> , <b>1992</b> , 57, 990-7	4.8	70
53	H(+)-coupled dipeptide (glycylsarcosine) transport across apical and basal borders of human intestinal Caco-2 cell monolayers display distinctive characteristics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1993</b> , 1151, 237-45	3.8	65
52	Paracellular barrier and junctional protein distribution depend on basolateral extracellular Ca <sup>2+</sup> in cultured epithelia. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1994</b> , 1222, 147-58	4.9	64
51	Angiotensin-converting enzyme (ACE) inhibitor transport in human intestinal epithelial (Caco-2) cells. <i>British Journal of Pharmacology</i> , <b>1995</b> , 114, 981-6	8.6	58
50	Differential surface characteristics of M cells from mouse intestinal Peyer's and caecal patches. <i>The Histochemical Journal</i> , <b>1994</b> , 26, 271-280		58
49	Exploiting receptor biology for oral vaccination with biodegradable particulates. <i>Advanced Drug Delivery Reviews</i> , <b>2005</b> , 57, 431-50	18.5	56
48	Inoculum composition and Salmonella pathogenicity island 1 regulate M-cell invasion and epithelial destruction by Salmonella typhimurium. <i>Infection and Immunity</i> , <b>1998</b> , 66, 724-31	3.7	55
47	H(+)-coupled (Na(+)-independent) proline transport in human intestinal (Caco-2) epithelial cell monolayers. <i>FEBS Letters</i> , <b>1993</b> , 333, 78-82	3.8	54
46	Substrate specificity of the di/tripeptide transporter in human intestinal epithelia (Caco-2): identification of substrates that undergo H(+)-coupled absorption. <i>British Journal of Pharmacology</i> , <b>1994</b> , 113, 1050-6	8.6	53
45	Active secretion of the fluoroquinolone ciprofloxacin by human intestinal epithelial Caco-2 cell layers. <i>British Journal of Pharmacology</i> , <b>1993</b> , 108, 575-6	8.6	49
44	Identification of M cells and their distribution in rabbit intestinal Peyer's patches and appendix. <i>Cell and Tissue Research</i> , <b>1993</b> , 273, 127-36	4.2	48
43	Manipulation of the repertoire of digestive enzymes secreted into the gastrointestinal tract of transgenic mice. <i>Bio/technology</i> , <b>1993</b> , 11, 376-9		47
42	Roles of minor pilin subunits Spy0125 and Spy0130 in the serotype M1 Streptococcus pyogenes strain SF370. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 4651-9	3.5	44
41	Increased expression of specific intestinal amino acid and peptide transporter mRNA in rats fed by TPN is reversed by GLP-2. <i>Journal of Nutrition</i> , <b>2004</b> , 134, 2957-64	4.1	43
40	Expression of the peptide transporter hPepT1 in human colon: a potential route for colonic protein nitrogen and drug absorption. <i>Histochemistry and Cell Biology</i> , <b>2003</b> , 119, 37-43	2.4	36
39	D-cycloserine transport in human intestinal epithelial (Caco-2) cells: mediation by a H(+)-coupled amino acid transporter. <i>British Journal of Pharmacology</i> , <b>1995</b> , 115, 761-6	8.6	36
38	Glycine transporter GLYT1 is essential for glycine-mediated protection of human intestinal epithelial cells against oxidative damage. <i>Journal of Physiology</i> , <b>2010</b> , 588, 995-1009	3.9	35
37	Passive transepithelial absorption of thyrotropin-releasing hormone (TRH) via a paracellular route in cultured intestinal and renal epithelial cell lines. <i>Pharmaceutical Research</i> , <b>1993</b> , 10, 674-81	4.5	35

36	Lectin binding defines and differentiates M-cells in mouse small intestine and caecum. <i>Histochemistry and Cell Biology</i> , <b>1995</b> , 104, 161-8	2.4	33
35	Predicting oral drug absorption and hepatobiliary clearance: Human intestinal and hepatic in vitro cell models. <i>Environmental Toxicology and Pharmacology</i> , <b>2006</b> , 21, 168-78	5.8	30
34	Variations in lectin binding properties of intestinal M cells. <i>Journal of Drug Targeting</i> , <b>1995</b> , 3, 75-7	5.4	30
33	Expression of junction-associated proteins differentiates mouse intestinal M cells from enterocytes. <i>Histochemistry and Cell Biology</i> , <b>2002</b> , 118, 137-47	2.4	29
32	Ion transport by human endometrial epithelia in vitro. <i>Human Reproduction</i> , <b>1993</b> , 8, 1570-5	5.7	29
31	Polarized efflux of 2S7Sbis(2-carboxyethyl)-5(6)-carboxyfluorescein from cultured epithelial cell monolayers. <i>Biochemical Pharmacology</i> , <b>1992</b> , 44, 417-24	6	29
30	Transepithelial dipeptide (glycylsarcosine) transport across epithelial monolayers of human Caco-2 cells is rheogenic. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1993</b> , 425, 178-80	4.6	27
29	Cell-contact-stimulated formation of filamentous appendages by <i>Salmonella typhimurium</i> does not depend on the type III secretion system encoded by <i>Salmonella</i> pathogenicity island 1. <i>Infection and Immunity</i> , <b>1998</b> , 66, 2007-17	3.7	25
28	Glycine supply to human enterocytes mediated by high-affinity basolateral GLYT1. <i>Gastroenterology</i> , <b>2001</b> , 120, 439-48	13.3	21
27	Differential cytokeratin and glycoconjugate expression by the surface and crypt epithelia of human palatine tonsils. <i>Histochemistry and Cell Biology</i> , <b>2000</b> , 114, 311-21	2.4	20
26	Co-culture of two MDCK strains with distinct junctional protein expression: a model for intercellular junction rearrangement and cell sorting. <i>Cell and Tissue Research</i> , <b>1998</b> , 291, 267-76	4.2	19
25	P-glycoprotein potentiates CYP3A4-mediated drug disappearance during Caco-2 intestinal secretory detoxification. <i>Journal of Drug Targeting</i> , <b>2004</b> , 12, 405-13	5.4	18
24	Autocrine growth stimulation of human renal WilmsStumour G401 cells by a gastrin-like peptide. <i>International Journal of Cancer</i> , <b>1994</b> , 57, 385-91	7.5	18
23	Bacterial xylanase expression in mammalian cells and transgenic mice. <i>Journal of Biotechnology</i> , <b>1999</b> , 72, 95-101	3.7	17
22	Secretion of a prokaryotic cellulase in bacterial and mammalian cells. <i>Gene</i> , <b>1993</b> , 125, 85-9	3.8	16
21	A protein targeting signal that functions in polarized epithelial cells in vivo. <i>Biochemical Journal</i> , <b>1996</b> , 315 ( Pt 3), 857-62	3.8	15
20	Transepithelial vinblastine secretion mediated by P-glycoprotein is inhibited by forskolin derivatives. <i>Biochemical and Biophysical Research Communications</i> , <b>1991</b> , 181, 671-6	3.4	15
19	Absorptive apical amiloride-sensitive Na <sup>+</sup> conductance in human endometrial epithelium. <i>Journal of Physiology</i> , <b>1998</b> , 513 ( Pt 2), 443-52	3.9	14

18	Secretin and the exposition of hormonal control. <i>Journal of Physiology</i> , <b>2004</b> , 560, 339	3.9	13
17	Thyrotropin-releasing hormone (TRH) uptake in intestinal brush-border membrane vesicles: comparison with proton-coupled dipeptide and Na(+)-coupled glucose transport. <i>Pharmaceutical Research</i> , <b>1993</b> , 10, 667-73	4.5	13
16	Water transport controversies--an overview. <i>Journal of Physiology</i> , <b>2002</b> , 542, 1-2	3.9	10
15	Enterocytes in the follicle-associated epithelia of rabbit small intestine display distinctive lectin-binding properties. <i>Histochemistry</i> , <b>1995</b> , 103, 131-4		10
14	Bradykinin stimulation of electrogenic ion transport in epithelial layers of cultured human endometrium. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1993</b> , 422, 401-3	4.6	10
13	The novel avian protein, AWAK, contains multiple domains with homology to protease inhibitory modules. <i>Molecular Immunology</i> , <b>2006</b> , 43, 388-94	4.3	9
12	Who's talking to whom? Epithelial-bacterial pathogen interactions. <i>Molecular Microbiology</i> , <b>2005</b> , 55, 655-63	4.1	9
11	Antibiotic exposure does not influence MRP2 functional expression in Caco-2 cells. <i>Journal of Drug Targeting</i> , <b>2005</b> , 13, 1-6	5.4	8
10	Heterogenous Na <sup>+</sup> , K <sup>(+)</sup> -ATPase expression in the epithelia of rabbit gut-associated lymphoid tissues. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1994</b> , 427, 343-7	4.6	6
9	Co-integration and expression of bacterial and genomic transgenes in the pancreatic and intestinal tissues of transgenic mice. <i>Gene</i> , <b>1997</b> , 202, 203-8	3.8	5
8	Comparison of Poly(dl-Lactide-co-glycolide) and Polystyrene Microsphere Targeting to Intestinal M Cells. <i>Journal of Drug Targeting</i> , <b>2003</b> , 11, 269-272	5.4	5
7	Selective binding and transcytosis of Ulex europaeus 1 lectin by mouse Peyer's patch M-cells in vivo <b>1995</b> , 282, 455		5
6	K <sup>(+)</sup> recycling and gastric acid secretion. <i>Journal of Physiology</i> , <b>2002</b> , 540, 1	3.9	3
5	Parietal cell membrane trafficking. Focus on "Expression of rab11a N124I in gastric parietal cells inhibits stimulatory recruitment of the H <sup>+</sup> -K <sup>+</sup> -ATPase". <i>American Journal of Physiology - Cell Physiology</i> , <b>1999</b> , 277, C359-60	5.4	2
4	Postgraduate opportunities in research at NEAS. <i>Journal of Paramedic Practice: the Clinical Monthly for Emergency Care Professionals</i> , <b>2010</b> , 2, 230-232	0.3	1
3	Fade and tachyphylaxis of gastric acid secretory response to pentagastrin in rat isolated gastric mucosa. <i>British Journal of Pharmacology</i> , <b>1988</b> , 95, 1047-56	8.6	
2	GASTROINTESTINAL EPITHELIUM: OPPORTUNITIES AND OBSTACLES TO XENOBIOTIC ABSORPTION. <i>Drug Metabolism and Pharmacokinetics</i> , <b>1995</b> , 10, 50-53		
1	Expression of the glycine transporter type 1 (GlyT-1A) is upregulated by ATF-4 following physiological stress in human intestinal epithelial cells (1109.14). <i>FASEB Journal</i> , <b>2014</b> , 28, 1109.14	0.9	

