

Deborah L Baines

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1066678/publications.pdf>

Version: 2024-02-01

55
papers

1,849
citations

218662

26
h-index

265191

42
g-index

55
all docs

55
docs citations

55
times ranked

2228
citing authors

#	ARTICLE	IF	CITATIONS
1	Airway glucose concentrations and effect on growth of respiratory pathogens in cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2007, 6, 101-109.	0.7	163
2	Hyperglycemia and cystic fibrosis alter respiratory fluid glucose concentrations estimated by breath condensate analysis. <i>Journal of Applied Physiology</i> , 2007, 102, 1969-1975.	2.5	156
3	Metformin reduces airway glucose permeability and hyperglycaemia-induced <i>Staphylococcus aureus</i> load independently of effects on blood glucose. <i>Thorax</i> , 2013, 68, 835-845.	5.6	96
4	Increased airway glucose increases airway bacterial load in hyperglycaemia. <i>Scientific Reports</i> , 2016, 6, 27636.	3.3	79
5	Hyperglycaemia and pulmonary infection. <i>Proceedings of the Nutrition Society</i> , 2006, 65, 227-235.	1.0	74
6	Sweet talk: insights into the nature and importance of glucose transport in lung epithelium. <i>European Respiratory Journal</i> , 2012, 40, 1269-1276.	6.7	70
7	Airway Glucose Homeostasis. <i>Chest</i> , 2018, 153, 507-514.	0.8	66
8	Phenformin and 5-aminoimidazole-4-carboxamide-1- β -D-ribofuranoside (AICAR) activation of AMP-activated protein kinase inhibits transepithelial Na ⁺ transport across H441 lung cells. <i>Journal of Physiology</i> , 2005, 566, 781-792.	2.9	60
9	The influence of mode of delivery, hormonal status and postnatal O ₂ environment on epithelial sodium channel (ENaC) expression in perinatal guinea pig lung. <i>Journal of Physiology</i> , 2000, 522, 147-157.	2.9	58
10	Glucose homeostasis across human airway epithelial cell monolayers: role of diffusion, transport and metabolism. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 457, 1061-1070.	2.8	57
11	Estrogen and progesterone regulate α , β , and γ ENaC subunit mRNA levels in female rat kidney. <i>Kidney International</i> , 2004, 65, 1774-1781.	5.2	54
12	The epithelial sodium channel mediates the directionality of galvanotaxis in human keratinocytes. <i>Journal of Cell Science</i> , 2013, 126, 1942-51.	2.0	51
13	Proinflammatory Mediators Disrupt Glucose Homeostasis in Airway Surface Liquid. <i>Journal of Immunology</i> , 2012, 189, 373-380.	0.8	50
14	Effective silencing of ENaC by siRNA delivered with epithelial-targeted nanocomplexes in human cystic fibrosis cells and in mouse lung. <i>Thorax</i> , 2018, 73, 847-856.	5.6	50
15	Elevated Paracellular Glucose Flux across Cystic Fibrosis Airway Epithelial Monolayers Is an Important Factor for <i>Pseudomonas aeruginosa</i> Growth. <i>PLoS ONE</i> , 2013, 8, e76283.	2.5	50
16	Hyperglycaemia and <i>Pseudomonas aeruginosa</i> acidify cystic fibrosis airway surface liquid by elevating epithelial monocarboxylate transporter 2 dependent lactate-H ⁺ secretion. <i>Scientific Reports</i> , 2016, 6, 37955.	3.3	48
17	Metformin prevents the effects of <i>Pseudomonas aeruginosa</i> on airway epithelial tight junctions and restricts hyperglycaemia-induced bacterial growth. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 758-764.	3.6	46
18	Kinases as Targets for ENaC Regulation. <i>Current Molecular Pharmacology</i> , 2013, 6, 50-64.	1.5	45

#	ARTICLE	IF	CITATIONS
19	Pharmacological activators of AMP-activated protein kinase have different effects on Na ⁺ transport processes across human lung epithelial cells. <i>British Journal of Pharmacology</i> , 2007, 151, 1204-1215.	5.4	42
20	BMI-1 extends proliferative potential of human bronchial epithelial cells while retaining their mucociliary differentiation capacity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L258-L267.	2.9	40
21	Forskolin-induced Cell Shrinkage and Apical Translocation of Functional Enhanced Green Fluorescent Protein-Human β -ENaC in H441 Lung Epithelial Cell Monolayers. <i>Journal of Biological Chemistry</i> , 2006, 281, 5158-5168.	3.4	38
22	Apical and basolateral localisation of GLUT2 transporters in human lung epithelial cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2008, 456, 991-1003.	2.8	38
23	PPAR β agonists inhibit vasopressin-mediated anion transport in the MDCK-C7 cell line. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, F55-F62.	2.7	37
24	E-cigarette constituents propylene glycol and vegetable glycerin decrease glucose uptake and its metabolism in airway epithelial cells in vitro. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L957-L967.	2.9	37
25	Fructose transport-deficient <i>Staphylococcus aureus</i> reveals important role of epithelial glucose transporters in limiting sugar-driven bacterial growth in airway surface liquid. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 4665-4673.	5.4	33
26	Dapagliflozin lowered blood glucose reduces respiratory <i>Pseudomonas aeruginosa</i> infection in diabetic mice. <i>British Journal of Pharmacology</i> , 2017, 174, 836-847.	5.4	28
27	Interaction between extracellular matrix molecules and microbial pathogens: evidence for the missing link in autoimmunity with rheumatoid arthritis as a disease model. <i>Frontiers in Microbiology</i> , 2014, 5, 783.	3.5	26
28	Cleavage of endogenous β -ENaC and elevated abundance of β -ENaC are associated with increased Na ⁺ transport in response to apical fluid volume expansion in human H441 airway epithelial cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2011, 462, 431-441.	2.8	25
29	AICAR activates AMPK and alters PIP ₂ association with the epithelial sodium channel ENaC to inhibit Na ⁺ transport in H441 lung epithelial cells. <i>Journal of Physiology</i> , 2008, 586, 4541-4557.	2.9	24
30	Role of endogenous cortisol in basal liquid clearance from distal air spaces in adult guinea-pigs. <i>Journal of Physiology</i> , 1999, 519, 261-272.	2.9	23
31	AMP-activated protein kinase (AMPK)-dependent and -independent pathways regulate hypoxic inhibition of transepithelial Na ⁺ transport across human airway epithelial cells. <i>British Journal of Pharmacology</i> , 2012, 167, 368-382.	5.4	21
32	Metformin attenuates the effect of <i>Staphylococcus aureus</i> on airway tight junctions by increasing PKC η -mediated phosphorylation of occludin. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 317-327.	3.6	20
33	KCNQ-encoded channels regulate Na ⁺ transport across H441 lung epithelial cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 457, 785-794.	2.8	14
34	The phosphorylation of endogenous Nedd4-2 In Na ⁺ -absorbing human airway epithelial cells. <i>European Journal of Pharmacology</i> , 2014, 732, 32-42.	3.5	14
35	Oxygen-evoked changes in transcriptional activity of the 5'-flanking region of the human amiloride-sensitive sodium channel (β -ENaC) gene: role of nuclear factor κ B. <i>Biochemical Journal</i> , 2002, 364, 537-545.	3.7	13
36	Vasopressin Regulates the Phosphorylation State of AMP-activated Protein Kinase (AMPK) in MDCK-C7 Cells. <i>Cellular Physiology and Biochemistry</i> , 2008, 22, 487-496.	1.6	12

#	ARTICLE	IF	CITATIONS
37	Erk5 is a mediator to TGF β 21-induced loss of phenotype and function in human podocytes. <i>Frontiers in Pharmacology</i> , 2014, 5, 71.	3.5	12
38	A novel fluorescent sensor protein for detecting changes in airway surface liquid glucose concentration. <i>Biochemical Journal</i> , 2014, 464, 213-220.	3.7	12
39	TGF β 2 activates ERK5 in human renal epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 373, 440-444.	2.1	11
40	Effective glucose metabolism maintains low intracellular glucose in airway epithelial cells after exposure to hyperglycemia. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 317, C983-C992.	4.6	11
41	Effects of sodium butyrate on the expression of sodium channels by neuronal cell lines derived from the rat CNS. <i>Molecular Brain Research</i> , 1992, 16, 330-338.	2.3	10
42	Valproic acid protects against haemorrhagic shock-induced signalling changes via PPAR β 3 activation in an <i>in vitro</i> model. <i>British Journal of Pharmacology</i> , 2015, 172, 5306-5317.	5.4	9
43	Role played by Disabled-2 in albumin induced MAP Kinase signalling. <i>Biochemical and Biophysical Research Communications</i> , 2008, 366, 675-680.	2.1	8
44	Glucose Transport and Homeostasis in Lung Epithelia. , 2017, , 33-57.		6
45	Culture with apically applied healthy or disease sputum alters the airway surface liquid proteome and ion transport across human bronchial epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C954-C963.	4.6	5
46	A nasty case of the vapours “ e-cigarettes friend or foe?. <i>Journal of Physiology</i> , 2020, 598, 5025-5025.	2.9	3
47	A modified fluorescent sensor for reporting glucose concentration in the airway lumen. <i>PLoS ONE</i> , 2021, 16, e0254248.	2.5	1
48	Glucose and lactate concentrations in the distal lung are modified by hyperglycaemia and inflammation. , 2015, , .		1
49	Glucose Transport in H441 Lung Epithelial Cells. <i>FASEB Journal</i> , 2006, 20, A348.	0.5	1
50	Differential Effect of LPS on Glucose, Lactate and Inflammatory Markers in the Lungs of Normal and Diabetic Mice. <i>Journal of Pulmonary & Respiratory Medicine</i> , 2017, 2017, .	0.1	1
51	Phenformin and AICAR decrease transepithelial Na ⁺ transport across human H441 lung epithelial cells by different mechanisms. <i>FASEB Journal</i> , 2007, 21, A954.	0.5	0
52	Glucose transport in lung airway epithelial cells. <i>FASEB Journal</i> , 2007, 21, A543.	0.5	0
53	Regulation of Na ⁺ transport in H441 cells by AMPK and PIP 2. <i>FASEB Journal</i> , 2008, 22, 1215.3.	0.5	0
54	Transepithelial glucose transport and metabolism in H441 human airway epithelial cells. <i>FASEB Journal</i> , 2008, 22, 764.5.	0.5	0

#	ARTICLE	IF	CITATIONS
55	Lipopolysaccharides modify amiloride-sensitive Na ⁺ transport processes across H441 lung epithelial cells. FASEB Journal, 2008, 22, 934.2.	0.5	0