SiobhÃ¡n McClean

List of Publications by Year
in descending order

85 papers	3,817 citations	126907 33 h-index	138484 58 g-index
88 all docs	88 docs citations	88 times ranked	5166 citing authors

#	Article	IF	Citations
1	Binding and uptake of biodegradable poly-dl-lactide micro- and nanoparticles in intestinal epithelia. European Journal of Pharmaceutical Sciences, 1998, 6, 153-163.	4.0	250
2	Pseudomonas aeruginosa: An Audacious Pathogen with an Adaptable Arsenal of Virulence Factors. International Journal of Molecular Sciences, 2021, 22, 3128.	4.1	230
3	Investigation of the cytotoxicity of eukaryotic and prokaryotic antimicrobial peptides in intestinal epithelial cells in vitro. Biochemical Pharmacology, 2006, 71, 1289-1298.	4.4	215
4	Bacterial Adaptation during Chronic Respiratory Infections. Pathogens, 2015, 4, 66-89.	2.8	172
5	Copper(II) Complexes of Salicylic Acid Combining Superoxide Dismutase Mimetic Properties with DNA Binding and Cleaving Capabilities Display Promising Chemotherapeutic Potential with Fast Acting in Vitro Cytotoxicity against Cisplatin Sensitive and Resistant Cancer Cell Lines. Journal of Medicinal Chemistry, 2012, 55, 1957-1968.	6.4	146
6	Protection against Bordetella pertussis infection following parenteral or oral immunization with antigens entrapped in biodegradable particles: effect of formulation and route of immunization on induction of Th1 and Th2 cells. Vaccine, 2001, 19, 1940-1950.	3.8	115
7	Differential cytotoxic effects of docetaxel in a range of mammalian tumor cell lines and certain drug resistant sublinesin vitro. Investigational New Drugs, 1994, 12, 169-182.	2.6	98
8	Bis-phenanthroline copper(ii) phthalate complexes are potent in vitro antitumour agents with â€˜self-activatingâ€™ metallo-nuclease and DNA binding properties. Dalton Transactions, 2011, 40, 1024-1027.	3.3	98
9	Developing an international Pseudomonas aeruginosa reference panel. MicrobiologyOpen, 2013, 2, 1010-1023.	3.0	94
10	Mast Cell Tryptase Reduces Junctional Adhesion Molecule-A (JAM-A) Expression in Intestinal Epithelial Cells: Implications for the Mechanisms of Barrier Dysfunction in Irritable Bowel Syndrome. American Journal of Gastroenterology, 2013, 108, 1140-1151.	0.4	93
11	Co-colonisation with Aspergillus fumigatus and Pseudomonas aeruginosa is associated with poorer health in cystic fibrosis patients: an Irish registry analysis. BMC Pulmonary Medicine, 2017, 17, 70.	2.0	85
12	Comparison of antibiotic susceptibility of Burkholderia cepacia complex organisms when grown planktonically or as biofilm in vitro. European Journal of Clinical Microbiology and Infectious Diseases, 2007, 26, 213-216.	2.9	84
13	Quinolin-2(1H)-one-triazole derived Schiff bases and their Cu(II) and Zn(II) complexes: Possible new therapeutic agents. Polyhedron, 2010, 29, 813-822.	2.2	80
14	Aspergillus fumigatus Inhibits Pseudomonas aeruginosa in Co-culture: Implications of a Mutually Antagonistic Relationship on Virulence and Inflammation in the CF Airway. Frontiers in Microbiology, 2018, 9, 1205.	3.5	77
15	Melittin exhibits necrotic cytotoxicity in gastrointestinal cells which is attenuated by cholesterol. Biochemical Pharmacology, 2008, 75, 1104-1114.	4.4	75
16	Phenotypic characterization of an international Pseudomonas aeruginosa reference panel: strains of cystic fibrosis (CF) origin show less in vivo virulence than non-CF strains. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 13	3.8	70
17	Hypoxia Modulates Infection of Epithelial Cells by Pseudomonas aeruginosa. PLoS ONE, 2013, 8, e56491.	2.5	69
18	Genomic characterisation of an international Pseudomonas aeruginosa reference panel indicates that the two major groups draw upon distinct mobile gene pools. FEMS Microbiology Letters, 2018, 365, .	1.8	67

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19	Radical-induced DNA damage by cytotoxic square-planar copper(II) complexes incorporating o-phthalate and 1,10-phenanthroline or 2,2â€²-dipyridyl. Free Radical Biology and Medicine, 2012, 53, 564-576.	2.9	64
20	Burkholderia cepacia complex: epithelial cellâ€“pathogen confrontations and potential for therapeutic intervention. Journal of Medical Microbiology, 2009, 58, 1-12.	1.8	62
21	Biological activity and coordination modes of copper(ii) complexes of Schiff base-derived coumarin ligands. Dalton Transactions, 2010, 39, 10854.	3.3	59
22	In vitro and in vivo antibacterial activity of environmental bacteriophages against Pseudomonas aeruginosa strains from cystic fibrosis patients. Applied Microbiology and Biotechnology, 2015, 99, 6021-6033.	3.6	54
23	Water-soluble and photo-stable silver(I) dicarboxylate complexes containing 1,10-phenanthroline ligands: Antimicrobial and anticancer chemotherapeutic potential, DNA interactions and antioxidant activity. Journal of Inorganic Biochemistry, 2016, 159, 120-132.	3.5	52
24	Cracking the Junction: Update on the Progress of Gastrointestinal Absorption Enhancement in the Delivery of Poorly Absorbed Drugs. Critical Reviews in Therapeutic Drug Carrier Systems, 2008, 25, 117-168.	2.2	47
25	Reduced Eâ€cadherin expression is associated with abdominal pain and symptom duration in a study of alternating and diarrhea predominant <scp>IBS</scp>. Neurogastroenterology and Motility, 2014, 26, 316-325.	3.0	46
26	Virulence of an emerging respiratory pathogen, genus Pandoraea, in vivo and its interactions with lung epithelial cells. Journal of Medical Microbiology, 2011, 60, 289-299.	1.8	45
27	Bacterial host interactions in cystic fibrosis. Current Opinion in Microbiology, 2012, 15, 71-77.	5.1	45
28	Evaluation of in vitro virulence characteristics of the genus Pandoraea in lung epithelial cells. Journal of Medical Microbiology, 2008, 57, 15-20.	1.8	44
29	Differences in invasion and translocation of Burkholderia cepacia complex species in polarised lung epithelial cells in vitro. Microbial Pathogenesis, 2006, 41, 183-192.	2.9	43
30	Linocin and OmpW Are Involved in Attachment of the Cystic Fibrosis-Associated Pathogen Burkholderia cepacia Complex to Lung Epithelial Cells and Protect Mice against Infection. Infection and Immunity, 2016, 84, 1424-1437.	2.2	41
31	Understanding Pseudomonas aeruginosaâ€“Host Interactions: The Ongoing Quest for an Efficacious Vaccine. Cells, 2020, 9, 2617.	4.1	39
32	The Role of Universal Stress Proteins in Bacterial Infections. Current Medicinal Chemistry, 2017, 24, 3970-3979.	2.4	39
33	Mapping Global Prevalence of Acinetobacter baumannii and Recent Vaccine Development to Tackle It. Vaccines, 2021, 9, 570.	4.4	38
34	Invasion and biofilm formation of Burkholderia dolosa is comparable with Burkholderia cenocepacia and Burkholderia multivorans. Journal of Cystic Fibrosis, 2007, 6, 49-56.	0.7	37
35	Melittin as an Epithelial Permeability Enhancer I: Investigation of Its Mechanism of Action in Caco-2 Monolayers. Pharmaceutical Research, 2007, 24, 1336-1345.	3.5	35
36	Eight Stranded β -Barrel and Related Outer Membrane Proteins: Role in Bacterial Pathogenesis. Protein and Peptide Letters, 2012, 19, 1013-1025.	0.9	35

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37	Immunoproteomic Analysis of Proteins Expressed by Two Related Pathogens, Burkholderia multivorans and Burkholderia cenocepacia, during Human Infection. PLoS ONE, 2013, 8, e80796.	2.5	35
38	Identification of an OmpW homologue in Burkholderia pseudomallei, a protective vaccine antigen against melioidosis. Vaccine, 2016, 34, 2616-2621.	3.8	34
39	Proteomic Profiling of Burkholderia cenocepacia Clonal Isolates with Different Virulence Potential Retrieved from a Cystic Fibrosis Patient during Chronic Lung Infection. PLoS ONE, 2013, 8, e83065.	2.5	34
40	IL-8 released from human lung epithelial cells induced by cystic fibrosis pathogens Burkholderia cepacia complex affects the growth and intracellular survival of bacteria. International Journal of Medical Microbiology, 2011, 301, 26-33.	3.6	33
41	Inhibition of co-colonizing cystic fibrosis-associated pathogens by Pseudomonas aeruginosa and Burkholderia multivorans. Microbiology (United Kingdom), 2014, 160, 1474-1487.	1.8	33
42	Evaluation of intestinal absorption and mucosal toxicity using two promoters. II. Rat instillation and perfusion studies. European Journal of Pharmaceutical Sciences, 2009, 38, 301-311.	4.0	32
43	Melittin as a Permeability Enhancer II: In Vitro Investigations in Human Mucus Secreting Intestinal Monolayers and Rat Colonic Mucosae. Pharmaceutical Research, 2007, 24, 1346-1356.	3.5	31
44	The effect of recombinant human lactoferrin on growth and the antibiotic susceptibility of the cystic fibrosis pathogen Burkholderia cepacia complex when cultured planktonically or as biofilms. Journal of Antimicrobial Chemotherapy, 2007, 60, 546-554.	3.0	30
45	Evidence of post-translational regulation of P-glycoprotein associated with the expression of a distinctive multiple drug-resistant phenotype in Chinese hamster ovary cells. European Journal of Cancer, 1993, 29, 2243-2248.	2.8	29
46	Investigation of the multifaceted iron acquisition strategies of Burkholderia cenocepacia. BioMetals, 2015, 28, 367-380.	4.1	29
47	TheBurkholderia cenocepaciapeptidoglycan-associated lipoprotein is involved in epithelial cell attachment and elicitation of inflammation. Cellular Microbiology, 2017, 19, e12691.	2.1	28
48	Role of lipase in Burkholderia cepacia complex (Bcc) invasion of lung epithelial cells. European Journal of Clinical Microbiology and Infectious Diseases, 2007, 26, 869-877.	2.9	27
49	Impact of amino acid replacements on in vitro permeation enhancement and cytotoxicity of the intestinal absorption promoter, melittin. International Journal of Pharmaceutics, 2010, 387, 154-160.	5.2	27
50	Virulence factors of Moraxella catarrhalis outer membrane vesicles are major targets for cross-reactive antibodies and have adapted during evolution. Scientific Reports, 2018, 8, 4955.	3.3	26
51	Expression of P-glycoprotein-mediated Drug Resistance in CHO Cells Surviving a Single X-ray Dose of 30 Gy. International Journal of Radiation Biology, 1993, 63, 765-773.	1.8	25
52	Copper(II) complexes of coumarin-derived Schiff base ligands: Pro- or antioxidant activity in MCF-7 cells?. Journal of Inorganic Biochemistry, 2019, 197, 110702.	3.5	25
53	Immunoproteomics: The Key to Discovery of New Vaccine Antigens Against Bacterial Respiratory Infections. Current Protein and Peptide Science, 2012, 13, 807-815.	1.4	23
54	Novel silver(I) complexes of coumarin oxyacetate ligands and their phenanthroline adducts: Biological activity, structural and spectroscopic characterisation. Journal of Inorganic Biochemistry, 2016, 163, 53-67.	3.5	23

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55	Characterization of the P-glycoprotein over-expressing drug resistance phenotype exhibited by Chinese hamster ovary cells following their in-vitro exposure to fractionated X-irradiation. Biochimica Et Biophysica Acta - Molecular Cell Research, 1993, 1177, 117-126.	4.1	22
56	Encapsulation in biodegradable microparticles enhances serum antibody response to parenterally-delivered Î²-amyloid in mice. Vaccine, 2001, 19, 4185-4193.	3.8	22
57	Hypoxia Reduces the Pathogenicity of Pseudomonas aeruginosa by Decreasing the Expression of Multiple Virulence Factors. Journal of Infectious Diseases, 2017, 215, 1459-1467.	4.0	22
58	Identification of a distinctive p-glycoprotein-mediated resistance phenotype in human ovarian carcinoma cells after their in vitro exposure to fractionated x-irradiation. Cancer, 1994, 73, 2990-2999.	4.1	20
59	Isolation and characterisation of silver(I) complexes of substituted coumarin-4-carboxylates which are effective against Pseudomonas aeruginosa biofilms. Polyhedron, 2014, 67, 549-559.	2.2	20
60	Spectroscopic studies, DFT calculations, and cytotoxic activity of novel silver(I) complexes of hydroxy ortho-substituted-nitro-2H-chromen-2-one ligands and a phenanthroline adduct. Journal of Inorganic Biochemistry, 2015, 153, 103-113.	3.5	18
61	The Tyrosine Kinase BceF and the Phosphotyrosine Phosphatase BceD of Burkholderia contaminans Are Required for Efficient Invasion and Epithelial Disruption of a Cystic Fibrosis Lung Epithelial Cell Line. Infection and Immunity, 2015, 83, 812-821.	2.2	18
62	The prevalence of Aspergillus fumigatus in early cystic fibrosis disease is underestimated by culture-based diagnostic methods. Journal of Microbiological Methods, 2019, 164, 105683.	1.6	17
63	Increased Virulence of Bloodstream Over Peripheral Isolates of P. aeruginosa Identified Through Post-transcriptional Regulation of Virulence Factors. Frontiers in Cellular and Infection Microbiology, 2018, 8, 357.	3.9	16
64	Burkholderia cenocepacia Prophagesâ€"Prevalence, Chromosome Location and Major Genes Involved. Viruses, 2018, 10, 297.	3.3	16
65	Rational Vaccine Design in Times of Emerging Diseases: The Critical Choices of Immunological Correlates of Protection, Vaccine Antigen and Immunomodulation. Pharmaceutics, 2021, 13, 501.	4.5	15
66	Interaction of environmental Burkholderia cenocepacia strains with cystic fibrosis and non-cystic fibrosis bronchial epithelial cells in vitro. Microbiology (United Kingdom), 2012, 158, 1325-1333.	1.8	13
67	Activation of MMP-9 by human lung epithelial cells in response to the cystic fibrosis-associated pathogen Burkholderia cenocepacia reduced wound healing in vitro. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 301, L575-L586.	2.9	12
68	Quantum Dot Nanotoxicity Investigations Using Human Lung Cells and TOXOR Electrochemical Enzyme Assay Methodology. ACS Sensors, 2017, 2, 165-171.	7.8	11
69	Macrophage responses to CF pathogens: JNK MAP kinase signaling by Burkholderia cepacia complex lipopolysaccharide. FEMS Immunology and Medical Microbiology, 2010, 60, 36-43.	2.7	10
70	Chemical Modification of the Carboxyl Terminal of Nisin A with Biotin does not Abolish Antimicrobial Activity Against the Indicator Organism, Kocuria rhizophila. International Journal of Peptide Research and Therapeutics, 2009, 15, 219-226.	1.9	9
71	Sequential Burkholderia cenocepacia Isolates from Siblings with Cystic Fibrosis Show Increased Lung Cell Attachment. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 832-835.	5.6	9
72	Exploiting Molecular Virulence Determinants in Burkholderia to Develop Vaccine Antigens. Current Medicinal Chemistry, 2015, 22, 1719-1733.	2.4	9

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73	Invasion of Burkholderia cepacia complex isolates into lung epithelial cells involves glycolipid receptors. Microbial Pathogenesis, 2010, 49, 381-387.	2.9	8
74	Structural Study of the Lipopolysaccharide Oâ€Antigen Produced by the Emerging Cystic Fibrosis Pathogen Pandoraea pulmonicola. European Journal of Organic Chemistry, 2012, 2012, 2243-2249.	2.4	8
75	Real-time PCR method for the quantification ofBurkholderia cepaciacomplex attached to lung epithelial cells and inhibition of that attachment. Letters in Applied Microbiology, 2010, 50, 500-506.	2.2	7
76	The involvement of the low-oxygen-activated locus of Burkholderia cenocepacia in adaptation during cystic fibrosis infection. Scientific Reports, 2018, 8, 13386.	3.3	7
77	Prospects for subunit vaccines: Technology advances resulting in efficacious antigens requires matching advances in early clinical trial investment. Human Vaccines and Immunotherapeutics, 2016, 12, 3103-3106.	3.3	6
78	BpOmpW Antigen Stimulates the Necessary Protective T-Cell Responses Against Melioidosis. Frontiers in Immunology, 2021, 12, 767359.	4.8	6
79	Modified multiple drug resistance phenotype of Chinese hamster ovary cells selected with X-rays and vincristine versus X-rays only. British Journal of Cancer, 1994, 69, 711-716.	6.4	5
80	TOXOR: Design and Application of an Electrochemical Toxicity Biosensor for Environmental Monitoring. Electroanalysis, 2015, 27, 58-66.	2.9	5
81	A chronic strain of the cystic fibrosis pathogen Pandoraea pulmonicola expresses a heterogenous hypo-acylated lipid A. Glycoconjugate Journal, 2021, 38, 135-144.	2.7	5
82	Protein with negative surface charge distribution, Bnr1, shows characteristics of a DNAâ€mimic protein and may be involved in the adaptation of Burkholderia cenocepacia. MicrobiologyOpen, 2022, 11, e1264.	3.0	3
83	Expression of drug resistance in Chinese hamster ovary (CHO) cells following X-ray pre-treatment in vitro.. Biochemical Society Transactions, 1991, 19, 278S-278S.	3.4	2
84	Inhibition of Burkholderia multivorans Adhesion to Lung Epithelial Cells by Bivalent Lactosides. Molecules, 2012, 17, 10065-10071.	3.8	2
85	A portable chemical toxicity biochip based on electronic enzymatic monitoring of cytotoxic effects on fish cells. Sensors and Actuators B: Chemical, 2017, 243, 271-278.	7.8	2