

# Owen B Spiller

## List of Publications by Citations

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97  
papers

2,437  
citations

32  
h-index

45  
g-index

107  
ext. papers

2,794  
ext. citations

5.5  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
97	The complement system: history, pathways, cascade and inhibitors. <i>European Journal of Microbiology and Immunology</i> , <b>2012</b> , 2, 103-11	4.6	152
96	Balancing mcr-1 expression and bacterial survival is a delicate equilibrium between essential cellular defence mechanisms. <i>Nature Communications</i> , <b>2017</b> , 8, 2054	17.4	91
95	The relevance of complement to virus biology. <i>Virology</i> , <b>2004</b> , 319, 176-84	3.6	88
94	Complement regulation by Kaposi's sarcoma-associated herpesvirus ORF4 protein. <i>Journal of Virology</i> , <b>2003</b> , 77, 592-9	6.6	81
93	Association between pulmonary ureaplasma colonization and bronchopulmonary dysplasia in preterm infants: updated systematic review and meta-analysis. <i>Pediatric Infectious Disease Journal</i> , <b>2014</b> , 33, 697-702	3.4	65
92	Off to a slow start: under-development of the complement system in term newborns is more substantial following premature birth. <i>Immunobiology</i> , <b>2012</b> , 217, 176-86	3.4	64
91	Concurrent titration and determination of antibiotic resistance in ureaplasma species with identification of novel point mutations in genes associated with resistance. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2009</b> , 53, 2020-7	5.9	64
90	Altered expression of host-encoded complement regulators on human cytomegalovirus-infected cells. <i>European Journal of Immunology</i> , <b>1996</b> , 26, 1532-8	6.1	64
89	Functional activity of the complement regulator encoded by Kaposi's sarcoma-associated herpesvirus. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 9283-9	5.4	63
88	Human and rodent decay-accelerating factors (CD55) are not species restricted in their complement-inhibiting activities. <i>Immunology</i> , <b>2000</b> , 100, 462-70	7.8	63
87	Cytokine-mediated up-regulation of CD55 and CD59 protects human hepatoma cells from complement attack. <i>Clinical and Experimental Immunology</i> , <b>2000</b> , 121, 234-41	6.2	57
86	Prevention of cardiac dysfunction in acute coxsackievirus B3 cardiomyopathy by inducible expression of a soluble coxsackievirus-adenovirus receptor. <i>Circulation</i> , <b>2009</b> , 120, 2358-66	16.7	55
85	Inhibition of coxsackie B virus infection by soluble forms of its receptors: binding affinities, altered particle formation, and competition with cellular receptors. <i>Journal of Virology</i> , <b>2005</b> , 79, 12016-24	6.6	55
84	Mapping CD55 function. The structure of two pathogen-binding domains at 1.7 Å. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 10691-6	5.4	51
83	Mechanism of neutrophil dysfunction: neutrophil serine proteases cleave and inactivate the C5a receptor. <i>Journal of Immunology</i> , <b>2014</b> , 192, 1787-95	5.3	49
82	Antibiotic resistance among <i>Ureaplasma</i> spp. isolates: cause for concern?. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2017</b> , 72, 330-337	5.1	49
81	Soluble recombinant coxsackievirus and adenovirus receptor abrogates coxsackievirus b3-mediated pancreatitis and myocarditis in mice. <i>Journal of Infectious Diseases</i> , <b>2004</b> , 189, 1431-9	7	46

80	Comparison of full gyrA, gyrB, parC and parE gene sequences between all <i>Ureaplasma parvum</i> and <i>Ureaplasma urealyticum</i> serovars to separate true fluoroquinolone antibiotic resistance mutations from non-resistance polymorphism. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2009</b> , 64, 529-38	5.1	41
79	The Kaposi's sarcoma-associated herpesvirus complement control protein (KCP) binds to heparin and cell surfaces via positively charged amino acids in CCP1-2. <i>Molecular Immunology</i> , <b>2006</b> , 43, 1665-75	4.3	41
78	Antibiotic Resistance among Clinical <i>Ureaplasma</i> Isolates Recovered from Neonates in England and Wales between 2007 and 2013. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 52-6	5.9	39
77	Dissecting the regions of virion-associated Kaposi's sarcoma-associated herpesvirus complement control protein required for complement regulation and cell binding. <i>Journal of Virology</i> , <b>2006</b> , 80, 4068-78	6.6	39
76	Maternal intravenous treatment with either azithromycin or solithromycin clears <i>Ureaplasma parvum</i> from the amniotic fluid in an ovine model of intrauterine infection. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2014</b> , 58, 5413-20	5.9	38
75	Role of pulmonary infection in the development of chronic lung disease of prematurity. <i>European Respiratory Journal</i> , <b>2011</b> , 37, 1424-30	13.6	38
74	Virus-host coevolution in a persistently coxsackievirus B3-infected cardiomyocyte cell line. <i>Journal of Virology</i> , <b>2011</b> , 85, 13409-19	6.6	37
73	Neutralization of cytomegalovirus virions: the role of complement. <i>Journal of Infectious Diseases</i> , <b>1997</b> , 176, 339-47	7	37
72	Tissue distribution of the rat analogue of decay-accelerating factor. <i>Immunology</i> , <b>1999</b> , 97, 374-84	7.8	35
71	Synergic activation of toll-like receptor (TLR) 2/6 and 9 in response to <i>Ureaplasma parvum</i> & <i>urealyticum</i> in human amniotic epithelial cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e61199	3.7	35
70	The Kaposi's sarcoma-associated herpesvirus complement control protein mimics human molecular mechanisms for inhibition of the complement system. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 45093-101	5.4	34
69	Coxsackievirus B3-associated myocardial pathology and viral load reduced by recombinant soluble human decay-accelerating factor in mice. <i>Laboratory Investigation</i> , <b>2003</b> , 83, 75-85	5.9	34
68	Echoviruses and coxsackie B viruses that use human decay-accelerating factor (DAF) as a receptor do not bind the rodent analogues of DAF. <i>Journal of Infectious Diseases</i> , <b>2000</b> , 181, 340-3	7	34
67	Membrane complement regulators protect against the development of type II collagen-induced arthritis in rats. <i>Arthritis and Rheumatism</i> , <b>2001</b> , 44, 2425-34		33
66	<i>Mycoplasma pneumoniae</i> Epidemiology in England and Wales: A National Perspective. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 157	5.7	33
65	Relationship of proteinases and proteinase inhibitors with microbial presence in chronic lung disease of prematurity. <i>Thorax</i> , <b>2010</b> , 65, 246-51	7.3	31
64	Development of a Multilocus Sequence Typing Scheme for Molecular Typing of <i>Mycoplasma pneumoniae</i> . <i>Journal of Clinical Microbiology</i> , <b>2015</b> , 53, 3195-203	9.7	28
63	Efficient generation of monoclonal antibodies against surface-expressed proteins by hyperexpression in rodent cells. <i>Journal of Immunological Methods</i> , <b>1999</b> , 224, 51-60	2.5	28

62	Cervical epithelial damage promotes <i>Ureaplasma parvum</i> ascending infection, intrauterine inflammation and preterm birth induction in mice. <i>Nature Communications</i> , <b>2020</b> , 11, 199	17.4	28
61	Repeated maternal intramuscular or intraamniotic erythromycin incompletely resolves intrauterine <i>Ureaplasma parvum</i> infection in a sheep model of pregnancy. <i>American Journal of Obstetrics and Gynecology</i> , <b>2014</b> , 211, 134.e1-9	6.4	26
60	Development of a model for cytomegalovirus infection of oligodendrocytes. <i>Journal of General Virology</i> , <b>1997</b> , 78 ( Pt 12), 3349-56	4.9	26
59	Inactivation of IL-6 and soluble IL-6 receptor by neutrophil derived serine proteases in cystic fibrosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2010</b> , 1802, 649-58	6.9	25
58	Improved gene delivery to intestinal mucosa by adenoviral vectors bearing subgroup B and d fibers. <i>Journal of Virology</i> , <b>2006</b> , 80, 2747-59	6.6	25
57	Antibody-independent activation of the classical complement pathway by cytomegalovirus-infected fibroblasts. <i>Journal of Infectious Diseases</i> , <b>1998</b> , 178, 1597-603	7	23
56	Decay-accelerating factor expression in the rat kidney is restricted to the apical surface of podocytes. <i>Kidney International</i> , <b>2002</b> , 62, 2010-21	9.9	22
55	Echovirus infection of rhabdomyosarcoma cells is inhibited by antiserum to the complement control protein CD59. <i>Microbiology (United Kingdom)</i> , <b>2000</b> , 81, 1393-401	2.9	22
54	Characterization of the complement inhibitory function of rhesus rhadinovirus complement control protein (RCP). <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 505-514	5.4	21
53	The Paradoxical Effects of Chronic Intra-Amniotic <i>Ureaplasma parvum</i> Exposure on Ovine Fetal Brain Development. <i>Developmental Neuroscience</i> , <b>2017</b> , 39, 472-486	2.2	19
52	Probing the interaction between feline immunodeficiency virus and CD134 by using the novel monoclonal antibody 7D6 and the CD134 (Ox40) ligand. <i>Journal of Virology</i> , <b>2007</b> , 81, 9665-79	6.6	19
51	Coxsackie B viruses that use human DAF as a receptor infect pig cells via pig CAR and do not use pig DAF. <i>Journal of General Virology</i> , <b>2002</b> , 83, 45-52	4.9	18
50	Compensatory mutations modulate the competitiveness and dynamics of plasmid-mediated colistin resistance in <i>Escherichia coli</i> clones. <i>ISME Journal</i> , <b>2020</b> , 14, 861-865	11.9	18
49	Outside-in? Acute fetal systemic inflammation in very preterm chronically catheterized sheep fetuses is not driven by cells in the fetal blood. <i>American Journal of Obstetrics and Gynecology</i> , <b>2016</b> , 214, 281.e1-281.e10	6.4	17
48	The viral aetiology of croup and recurrent croup. <i>Archives of Disease in Childhood</i> , <b>2009</b> , 94, 359-60	2.2	17
47	High-resolution melt PCR analysis for genotyping of <i>Ureaplasma parvum</i> isolates directly from clinical samples. <i>Journal of Clinical Microbiology</i> , <b>2014</b> , 52, 599-606	9.7	16
46	Maternal intravenous administration of azithromycin results in significant fetal uptake in a sheep model of second trimester pregnancy. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2014</b> , 58, 6581-91	5.9	16
45	Serum killing of <i>Ureaplasma parvum</i> shows serovar-determined susceptibility for normal individuals and common variable immuno-deficiency patients. <i>Immunobiology</i> , <b>2012</b> , 217, 187-94	3.4	16

44	Molecular characterization of the rhesus rhadinovirus (RRV) ORF4 gene and the RRV complement control protein it encodes. <i>Journal of Virology</i> , <b>2007</b> , 81, 4166-76	6.6	16
43	Kaposi's sarcoma-associated herpes virus complement control protein: KCP--complement inhibition and more. <i>Molecular Immunology</i> , <b>2007</b> , 44, 11-22	4.3	16
42	Human diffusely adhering Escherichia coli expressing Afa/Dr adhesins that use human CD55 (decay-accelerating factor) as a receptor does not bind the rodent and pig analogues of CD55. <i>Infection and Immunity</i> , <b>2004</b> , 72, 4859-63	3.7	14
41	Complement expression on astrocytes and astrocytoma cell lines: failure of complement regulation at the C3 level correlates with very low CD55 expression. <i>Journal of Neuroimmunology</i> , <b>1996</b> , 71, 97-106	3.5	14
40	Susceptibility of B lymphocytes to adenovirus type 5 infection is dependent upon both coxsackie-adenovirus receptor and alphavbeta5 integrin expression. <i>Journal of General Virology</i> , <b>2005</b> , 86, 1669-1679	4.9	13
39	In vitro activity of solithromycin and its metabolites, CEM-214 and N-acetyl-CEM-101, against 100 clinical <i>Ureaplasma</i> spp. isolates compared with azithromycin. <i>International Journal of Antimicrobial Agents</i> , <b>2015</b> , 46, 319-24	14.3	12
38	Antimicrobial activity of Manuka honey against antibiotic-resistant strains of the cell wall-free bacteria <i>Ureaplasma parvum</i> and <i>Ureaplasma urealyticum</i> . <i>Letters in Applied Microbiology</i> , <b>2017</b> , 64, 198-202	2.0	11
37	Growth characteristics of human adenoviruses on porcine cell lines. <i>Virology</i> , <b>2008</b> , 373, 400-10	3.6	11
36	infections, 11 countries in Europe and Israel, 2011 to 2016. <i>Eurosurveillance</i> , <b>2020</b> , 25,	19.8	11
35	More recent swine vesicular disease virus isolates retain binding to coxsackie-adenovirus receptor, but have lost the ability to bind human decay-accelerating factor (CD55). <i>Journal of General Virology</i> , <b>2005</b> , 86, 1369-1377	4.9	10
34	Intrauterine <i>Candida albicans</i> Infection Causes Systemic Fetal Candidiasis With Progressive Cardiac Dysfunction in a Sheep Model of Early Pregnancy. <i>Reproductive Sciences</i> , <b>2017</b> , 24, 77-84	3	9
33	Pulmonary vascular changes in extremely preterm sheep after intra-amniotic exposure to <i>Ureaplasma parvum</i> and lipopolysaccharide. <i>PLoS ONE</i> , <b>2017</b> , 12, e0180114	3.7	9
32	Random insertion and gene disruption via transposon mutagenesis of <i>Ureaplasma parvum</i> using a mini-transposon plasmid. <i>International Journal of Medical Microbiology</i> , <b>2014</b> , 304, 1218-25	3.7	8
31	Genomic determination of minimum multi-locus sequence typing schemas to represent the genomic phylogeny of <i>Mycoplasma hominis</i> . <i>BMC Genomics</i> , <b>2016</b> , 17, 964	4.5	8
30	Chronic Intra-Uterine Infection Induces Injury of the Enteric Nervous System in Ovine Fetuses. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 189	8.4	8
29	Separation of decay-accelerating and cofactor functional activities of Kaposi's sarcoma-associated herpesvirus complement control protein using monoclonal antibodies. <i>Immunology</i> , <b>2008</b> , 123, 228-38	7.8	7
28	Prevalent human coxsackie B-5 virus infects porcine islet cells primarily using the coxsackie-adenovirus receptor. <i>Xenotransplantation</i> , <b>2004</b> , 11, 536-46	2.8	7
27	Protection of the Ovine Fetal Gut against -Induced Chorioamnionitis: A Potential Role for Plant Sterols. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	6

26	Foetal <i>Ureaplasma parvum</i> bacteraemia as a function of gestation-dependent complement insufficiency: Evidence from a sheep model of pregnancy. <i>American Journal of Reproductive Immunology</i> , <b>2017</b> , 77, e12599	3.8	6
25	Antibodies against Kaposi sarcoma-associated herpes virus (KSHV) complement control protein (KCP) in infected individuals. <i>Vaccine</i> , <b>2007</b> , 25, 8102-9	4.1	6
24	MYCO WELL D-ONE detection of <i>Ureaplasma</i> spp. and <i>Mycoplasma hominis</i> in sexual health patients in Wales. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , <b>2020</b> , 39, 2427-2440	5.3	6
23	Viral heparin-binding complement inhibitors--a recurring theme. <i>Advances in Experimental Medicine and Biology</i> , <b>2007</b> , 598, 105-25	3.6	6
22	Isolation of Separate <i>Ureaplasma</i> Species From Endotracheal Secretions of Twin Patients. <i>Pediatrics</i> , <b>2016</b> , 138,	7.4	4
21	Emerging Pathogenic Respiratory <i>Mycoplasma hominis</i> Infections in Lung Transplant Patients: Time to Reassess its Role as a Pathogen?. <i>EBioMedicine</i> , <b>2017</b> , 19, 8-9	8.8	4
20	Rat T cells express neither CD55 nor CD59 and are dependent on Crry for protection from homologous complement. <i>European Journal of Immunology</i> , <b>2002</b> , 32, 502-9	6.1	4
19	Role of serine proteases in the regulation of interleukin-877 during the development of bronchopulmonary dysplasia in preterm ventilated infants. <i>PLoS ONE</i> , <b>2014</b> , 9, e114524	3.7	4
18	Detrimental Effects of an Inhaled Phosphodiesterase-4 Inhibitor on Lung Inflammation in Ventilated Preterm Lambs Exposed to Chorioamnionitis Are Dose Dependent. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , <b>2019</b> , 32, 396-404	3.8	4
17	Comparison of complement activity in adult and preterm sheep serum. <i>American Journal of Reproductive Immunology</i> , <b>2015</b> , 73, 232-41	3.8	3
16	Measurement of C3 fragment deposition on cells. <i>Methods in Molecular Biology</i> , <b>2000</b> , 150, 131-7	1.4	3
15	&lt;i>Mycoplasma hominis</i> Variable Adherence-Associated Antigen: A Major Adhesin and Highly Variable Surface Membrane Protein. <i>Advances in Microbiology</i> , <b>2014</b> , 04, 736-746	0.6	3
14	Tetracycline Resistance Mediated by (M) Has Variable Integrative Conjugative Element Composition in <i>Mycoplasma hominis</i> Strains Isolated in the United Kingdom from 2005 to 2015. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2021</b> , 65,	5.9	3
13	Differential recognition of the multiple banded antigen isoforms across <i>Ureaplasma parvum</i> and <i>Ureaplasma urealyticum</i> species by monoclonal antibodies. <i>Journal of Microbiological Methods</i> , <b>2016</b> , 127, 13-19	2.8	3
12	<i>Legionella</i> antibiotic susceptibility testing: is it time for international standardization and evidence-based guidance?. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 1113-1116	5.1	3
11	Prophylactic Intra-Uterine βCyclodextrin Administration during Intra-Uterine Infection Partly Prevents Liver Inflammation without Interfering with the Enterohepatic Circulation of the Fetal Sheep. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	2
10	Monoclonal anti-neutrophil elastase antibody characterisation: ability to block function, detect free versus serpin-complexed enzyme and stain intracellular granules. <i>Journal of Immunological Methods</i> , <b>2008</b> , 336, 175-82	2.5	2
9	Measurement of complement lysis of nucleated cells. <i>Methods in Molecular Biology</i> , <b>2000</b> , 150, 73-81	1.4	2

8	Legionella antimicrobial sensitivity testing: comparison of microbroth dilution with BCYE and LASARUS solid media. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 1197-1204	5.1	2
7	Calcium gluconate in phosphate buffered saline increases gene delivery with adenovirus type 5. <i>PLoS ONE</i> , <b>2010</b> , 5, e13103	3.7	2
6	Comparing Long-Read Assemblers to Explore the Potential of a Sustainable Low-Cost, Low-Infrastructure Approach to Sequence Antimicrobial Resistant Bacteria With Oxford Nanopore Sequencing.. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 796465	5.7	2
5	Mycoplasma genitalium prevalence in Welsh sexual health patients: Low antimicrobial resistance markers and no association of symptoms to bacterial load. <i>Microbial Pathogenesis</i> , <b>2020</b> , 139, 103872	3.8	1
4	Screening of Chorioamnionitis Using Volatile Organic Compound Detection in Exhaled Breath: A Pre-clinical Proof of Concept Study. <i>Frontiers in Pediatrics</i> , <b>2021</b> , 9, 617906	3.4	1
3	Evaluation of the MYCOPLASMA IST3 urogenital mycoplasma assay in an international multicentre trial. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 3175-3182	5.1	0
2	Environmental surveillance of ESBL and carbapenemase-producing gram-negative bacteria in a Ghanaian Tertiary Hospital.. <i>Antimicrobial Resistance and Infection Control</i> , <b>2022</b> , 11, 49	6.2	0
1	Ureaplasma-Driven Neonatal Neuroinflammation: Novel Insights from an Ovine Model.. <i>Cellular and Molecular Neurobiology</i> , <b>2022</b> , 1	4.6	