

# Richard Burchmore

## List of Publications by Year in descending order

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107  
papers

2,587  
citations

172386

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243529

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119  
all docs

119  
docs citations

119  
times ranked

3981  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi Platforms Strategies and Metabolomics Approaches for the Investigation of Comprehensive Metabolite Profile in Dogs with Babesia canis Infection. International Journal of Molecular Sciences, 2022, 23, 1575.	1.8	6
2	Uncomplicated Plasmodium vivax malaria: mapping the proteome from circulating platelets. Clinical Proteomics, 2022, 19, 1.	1.1	5
3	Limited Impact of the Protein Corona on the Cellular Uptake of PEGylated Zein Micelles by Melanoma Cancer Cells. Pharmaceutics, 2022, 14, 439.	2.0	9
4	Mapping the Influence of the Gut Microbiota on Small Molecules across the Microbiome Gut Brain Axis. Journal of the American Society for Mass Spectrometry, 2022, 33, 649-659.	1.2	6
5	Comparative Draft Genomes of Leishmania orientalis Isolate PCM2 (Formerly Named Leishmania) Tj ETQq1 1 0.784314 rgBT /Overlock Biology, 2022, 11, 515.	1.3	6
6	Abundance of plasma proteins in response to divergent ratios of dietary $\omega$ : $\omega$ 3 fatty acids in gestating and lactating sows using a quantitative proteomics approach. Journal of Proteomics, 2022, 260, 104562.	1.2	4
7	Technical report: In-gel sample preparation prior to proteomic analysis of bovine faeces increases protein identifications by removal of high molecular weight glycoproteins. Journal of Proteomics, 2022, 261, 104573.	1.2	3
8	The Identification and Characterization of Immunoreactive Fungal Proteins Recognized by Sera from Zimbabweans Sensitized to Fungi. International Archives of Allergy and Immunology, 2022, 183, 1007-1016.	0.9	0
9	Proteomic analysis reveals differentially abundant proteins probably involved in the virulence of amastigote and promastigote forms of Leishmania infantum. Parasitology Research, 2021, 120, 679-692.	0.6	9
10	Combined Untargeted and Targeted Metabolomics Approaches Reveal Urinary Changes of Amino Acids and Energy Metabolism in Canine Babesiosis With Different Levels of Kidney Function. Frontiers in Microbiology, 2021, 12, 715701.	1.5	9
11	Fungicidal Activity of Recombinant Javanicin against Cryptococcus neoformans Is Associated with Intracellular Target(s) Involved in Carbohydrate and Energy Metabolic Processes. Molecules, 2021, 26, 7011.	1.7	2
12	aBravo Is a Novel Aedes aegypti Antiviral Protein That Interacts with, but Acts Independently of, the Exogenous siRNA Pathway Effector Dicer 2. Viruses, 2020, 12, 748.	1.5	5
13	Effects of Low $\omega$ : $\omega$ 3 Ratio in Sow Diet and Seaweed Supplement in Piglet Diet on Performance, Colostrum and Milk Fatty Acid Profiles, and Oxidative Status. Animals, 2020, 10, 2049.	1.0	14
14	Glucose-Regulated Protein 78 Interacts with Zika Virus Envelope Protein and Contributes to a Productive Infection. Viruses, 2020, 12, 524.	1.5	14
15	Trypanosoma brucei and Trypanosoma cruzi DNA Mismatch Repair Proteins Act Differently in the Response to DNA Damage Caused by Oxidative Stress. Frontiers in Cellular and Infection Microbiology, 2020, 10, 154.	1.8	2
16	Essential roles for deubiquitination in Leishmania life cycle progression. PLoS Pathogens, 2020, 16, e1008455.	2.1	39
17	Animated Guide to Represent a Novel Means of Gut-Brain Axis Communication. Advances in Experimental Medicine and Biology, 2020, 1262, 39-57.	0.8	0
18	Microbiome-derived carnitine mimics as previously unknown mediators of gut-brain axis communication. Science Advances, 2020, 6, eaax6328.	4.7	45

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19	2D Gel Electrophoresis Analysis of Leishmania Proteomes. <i>Methods in Molecular Biology</i> , 2020, 2116, 577-586.	0.4	0
20	Multi-Layer Controls of Cas9 Activity Coupled With ATP Synthase Over-Expression for Efficient Genome Editing in <i>Streptomyces</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 304.	2.0	20
21	Mapping the metabolism of five amino acids in bloodstream form <i>Trypanosoma brucei</i> using U-13C-labelled substrates and LC-MS. <i>Bioscience Reports</i> , 2019, 39, .	1.1	17
22	Comparative bioinformatic and proteomic approaches to evaluate the outer membrane proteome of the fish pathogen <i>Yersinia ruckeri</i> . <i>Journal of Proteomics</i> , 2019, 199, 135-147.	1.2	18
23	Low sulfated heparins target multiple proteins for central nervous system repair. <i>Glia</i> , 2019, 67, 668-687.	2.5	18
24	Unanchored triaCNEDD8 inhibits PARP1 to protect from oxidative stress-induced cell death. <i>EMBO Journal</i> , 2019, 38, .	3.5	34
25	Proteomic analysis of glycosomes from <i>Trypanosoma cruzi</i> epimastigotes. <i>Molecular and Biochemical Parasitology</i> , 2019, 229, 62-74.	0.5	31
26	Identification of Differentially Expressed Proteins in Milk during Experimental Bovine Mastitis using Difference Gel Electrophoresis. <i>FASEB Journal</i> , 2019, 33, .	0.2	0
27	Interaction of suppressor of cytokine signalling 3 with cavin-1 links SOCS3 function and cavin-1 stability. <i>Nature Communications</i> , 2018, 9, 168.	5.8	25
28	A defined medium for <i>Leishmania</i> culture allows definition of essential amino acids. <i>Experimental Parasitology</i> , 2018, 185, 39-52.	0.5	33
29	Serum proteome profiling in canine idiopathic dilated cardiomyopathy using TMT-based quantitative proteomics approach. <i>Journal of Proteomics</i> , 2018, 179, 110-121.	1.2	21
30	Mix-and-Match Proteomics: Using Advanced Iodoacetyl Tandem Mass Tag Multiplexing To Investigate Cysteine Oxidation Changes with Respect to Protein Expression. <i>Analytical Chemistry</i> , 2018, 90, 14173-14180.	3.2	4
31	A proteomic analysis unravels novel CORVET and HOPS proteins involved in <i>Toxoplasma gondii</i> secretory organelles biogenesis. <i>Cellular Microbiology</i> , 2018, 20, e12870.	1.1	22
32	Pulse of inflammatory proteins in the pregnant uterus of European polecats ( <i>Mustela putorius</i> ) Tj ETQq0 0 Q rgBT /Overlock 10 T	1.1	2
33	Integration of proteomics and metabolomics to elucidate metabolic adaptation in <i>Leishmania</i> . <i>Journal of Proteomics</i> , 2017, 155, 85-98.	1.2	29
34	A proteomic approach to assess the host response in gills of farmed Atlantic salmon <i>Salmo salar</i> L. affected by amoebic gill disease. <i>Aquaculture</i> , 2017, 470, 1-10.	1.7	17
35	Identification of novel biomarkers for treatment monitoring in canine leishmaniosis by high-resolution quantitative proteomic analysis. <i>Veterinary Immunology and Immunopathology</i> , 2017, 191, 60-67.	0.5	32
36	Rapid changes in Atlantic grey seal milk from birth to weaning – immune factors and indicators of metabolic strain. <i>Scientific Reports</i> , 2017, 7, 16093.	1.6	6

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37	Mass spectrometry imaging identifies palmitoylcarnitine as an immunological mediator during <i>Salmonella Typhimurium</i> infection. <i>Scientific Reports</i> , 2017, 7, 2786.	1.6	31
38	Enhanced dietary formulation to mitigate winter thermal stress in gilthead sea bream ( <i>Sparus aurata</i> ): a 2D-DIGE plasma proteome study. <i>Fish Physiology and Biochemistry</i> , 2017, 43, 603-617.	0.9	25
39	Quantitative proteomic profiling of bovine follicular fluid during follicle development. <i>Biology of Reproduction</i> , 2017, 97, 835-849.	1.2	25
40	181...Nox compartmentalization and protein oxidation in vascular smooth muscle cells – implications in vascular dysfunction in hypertension. <i>Heart</i> , 2017, 103, A125.1-A125.	1.2	0
41	The role of membrane transporters in <i>Leishmania</i> virulence. <i>Emerging Topics in Life Sciences</i> , 2017, 1, 601-611.	1.1	2
42	The ubiquitin-conjugating enzyme CDC34 is essential for cytokinesis in contrast to putative subunits of a SCF complex in <i>Trypanosoma brucei</i> . <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005626.	1.3	16
43	<i>Yersinia ruckeri</i> Isolates Recovered from Diseased Atlantic Salmon ( <i>Salmo salar</i> ) in Scotland Are More Diverse than Those from Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) and Represent Distinct Subpopulations. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5785-5794.	1.4	34
44	Mastitomics, the integrated omics of bovine milk in an experimental model of <i>Streptococcus uberis</i> mastitis: 1. High abundance proteins, acute phase proteins and peptidomics. <i>Molecular BioSystems</i> , 2016, 12, 2735-2747.	2.9	47
45	Mastitomics, the integrated omics of bovine milk in an experimental model of <i>Streptococcus uberis</i> mastitis: 2. Label-free relative quantitative proteomics. <i>Molecular BioSystems</i> , 2016, 12, 2748-2761.	2.9	45
46	Mastitomics, the integrated omics of bovine milk in an experimental model of <i>Streptococcus uberis</i> mastitis: 3. Untargeted metabolomics. <i>Molecular BioSystems</i> , 2016, 12, 2762-2769.	2.9	35
47	PS 07-14 VASCULAR PROTEIN OXIDATION AND REDOX PROTEOMICS IN HYPERTENSION. <i>Journal of Hypertension</i> , 2016, 34, e287.	0.3	0
48	<i>Trypanosoma cruzi</i> contains two galactokinases; molecular and biochemical characterization. <i>Parasitology International</i> , 2016, 65, 472-482.	0.6	10
49	PNT1 Is a C11 Cysteine Peptidase Essential for Replication of the Trypanosome Kinetoplast. <i>Journal of Biological Chemistry</i> , 2016, 291, 9492-9500.	1.6	10
50	41...Vascular protein oxidation and redox proteomics in human hypertension. <i>Heart</i> , 2015, 101, A13.3-A14.	1.2	1
51	Structure of protease-cleaved <i>Escherichia coli</i> $\alpha$ -2-macroglobulin reveals a putative mechanism of conformational activation for protease entrapment. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1478-1486.	2.5	11
52	Serially coupling hydrophobic interaction and reversed-phase chromatography with simultaneous gradients provides greater coverage of the metabolome. <i>Metabolomics</i> , 2015, 11, 1465-1470.	1.4	35
53	Prolonged transition time between colostrum and mature milk in a bear, the giant panda, <i>Ailuropoda melanoleuca</i> . <i>Royal Society Open Science</i> , 2015, 2, 150395.	1.1	19
54	Comparative Proteomic Profiling of <i>Leishmania tropica</i> : Investigation of a Case Infected with Simultaneous Cutaneous and Viscerotropic Leishmaniasis by 2-Dimensional Electrophoresis and Mass Spectrometry. <i>Iranian Journal of Parasitology</i> , 2015, 10, 366-80.	0.6	9

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55	Comparison of the Proteome Profiling of Iranian isolates of <i>Leishmania tropica</i> , <i>L. major</i> and <i>L. infantum</i> by Two-Dimensional Electrophoresis (2-DE) and Mass-spectrometry. <i>Iranian Journal of Parasitology</i> , 2015, 10, 530-40.	0.6	9
56	Gentamicin-Attenuated <i>Leishmania infantum</i> Vaccine: Protection of Dogs against Canine Visceral Leishmaniasis in Endemic Area of Southeast of Iran. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2757.	1.3	22
57	The metabolic enzyme <i>AdhE</i> controls the virulence of <i>Escherichia coli</i> ... <i>O</i> 157:H7. <i>Molecular Microbiology</i> , 2014, 93, 199-211.	1.2	49
58	The chaperone protein clusterin may serve as a cerebrospinal fluid biomarker for chronic spinal cord disorders in the dog. <i>Cell Stress and Chaperones</i> , 2014, 19, 311-320.	1.2	9
59	Mapping pathways to drug resistance with proteomics. <i>Expert Review of Proteomics</i> , 2014, 11, 1-3.	1.3	12
60	Proteomics in Veterinary Medicine. <i>Veterinary Pathology</i> , 2014, 51, 351-362.	0.8	64
61	Dogs vaccinated with gentamicin-attenuated <i>Leishmania infantum</i> or infected with wild-type parasite can be distinguished by Western blotting. <i>Parasite Immunology</i> , 2014, 36, 218-224.	0.7	4
62	Identification of serum biomarkers in dogs naturally infected with <i>Babesia canis canis</i> using a proteomic approach. <i>BMC Veterinary Research</i> , 2014, 10, 111.	0.7	44
63	Proteomics as a tool to explore human milk in health and disease. <i>Journal of Proteomics</i> , 2013, 88, 47-57.	1.2	37
64	The threonine degradation pathway of the <i>Trypanosoma brucei</i> procyclic form: the main carbon source for lipid biosynthesis is under metabolic control. <i>Molecular Microbiology</i> , 2013, 90, 114-129.	1.2	58
65	Enhancing the egg's natural defence against bacterial penetration by increasing cuticle deposition. <i>Animal Genetics</i> , 2013, 44, 661-668.	0.6	61
66	Transient genetic suppression facilitates generation of hexose transporter null mutants in <i>Leishmania mexicana</i> . <i>Molecular Microbiology</i> , 2013, 87, 412-429.	1.2	9
67	Biomarkers of winter disease in gilthead seabream: a proteomics approach. , 2013, , 175-178.		0
68	Changes in the serum proteome of canine lymphoma identified by electrophoresis and mass spectrometry. <i>Veterinary Journal</i> , 2013, 196, 320-324.	0.6	23
69	Characterisation of the normal canine serum proteome using a novel electrophoretic technique combined with mass spectrometry. <i>Veterinary Journal</i> , 2013, 196, 315-319.	0.6	15
70	Handling Uncertainty in Dynamic Models: The Pentose Phosphate Pathway in <i>Trypanosoma brucei</i> . <i>PLoS Computational Biology</i> , 2013, 9, e1003371.	1.5	40
71	Immunological Consequences of Antihelminthic Treatment in Preschool Children Exposed to Urogenital Schistosome Infection. <i>Journal of Tropical Medicine</i> , 2013, 2013, 1-13.	0.6	9
72	Identification and Functional Characterisation of CRK12:CYC9, a Novel Cyclin-Dependent Kinase (CDK)-Cyclin Complex in <i>Trypanosoma brucei</i> . <i>PLoS ONE</i> , 2013, 8, e67327.	1.1	22

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73	Proteomics at the host: pathogen interface. , 2013, , 37-37.		0
74	Untargeted Metabolomics Reveals a Lack Of Synergy between Nifurtimox and Eflornithine against Trypanosoma brucei. PLoS Neglected Tropical Diseases, 2012, 6, e1618.	1.3	101
75	Parasites in the brain? The search for sleeping sickness biomarkers. Expert Review of Anti-Infective Therapy, 2012, 10, 1283-1286.	2.0	3
76	Proteomic insights into parasite biology. Parasitology, 2012, 139, 1101-1102.	0.7	3
77	Strategies to dissect parasite proteomes. Parasitology, 2012, 139, 1119-1130.	0.7	8
78	Alteration in mononuclear cell subpopulations in dogs immunized with gentamicin-attenuated Leishmania infantum. Parasitology, 2012, 139, 1689-1696.	0.7	6
79	Predicting the outer membrane proteome of Pasteurella multocida based on consensus prediction enhanced by results integration and manual confirmation. BMC Bioinformatics, 2012, 13, 63.	1.2	18
80	Proteomics in biomarker detection and monitoring of pancreas disease (PD) in atlantic salmon (Salmo Tj ETQq0 0 0 rgBT /Overlock 10 T		
81	2D-DIGE Proteomic Analysis of Mesenchymal Stem Cell Cultured on the Elasticity-tunable Hydrogels. Cell Structure and Function, 2012, 37, 127-139.	0.5	15
82	The role of microtopography in cellular mechanotransduction. Biomaterials, 2012, 33, 2835-2847.	5.7	139
83	Comparative proteomics profiling of a gentamicin-attenuated Leishmania infantum cell line identifies key changes in parasite thiol-redox metabolism. Journal of Proteomics, 2012, 75, 1463-1471.	1.2	35
84	Discovery of factors linked to antimony resistance in Leishmania panamensis through differential proteome analysis. Molecular and Biochemical Parasitology, 2012, 183, 166-176.	0.5	73
85	Identification of ORC1/CDC6-Interacting Factors in Trypanosoma brucei Reveals Critical Features of Origin Recognition Complex Architecture. PLoS ONE, 2012, 7, e32674.	1.1	47
86	Protein Expression of STRO-1 Cells in Response to Different Topographic Features. Journal of Tissue Engineering, 2011, 2011, 534603.	2.3	3
87	Identification of Bacterial Target Proteins for the Salicylidene Acylhydrazide Class of Virulence-blocking Compounds. Journal of Biological Chemistry, 2011, 286, 29922-29931.	1.6	94
88	Screening trematodes for novel intervention targets: a proteomic and immunological comparison of Schistosoma haematobium, Schistosoma bovis and Echinostoma caproni. Parasitology, 2011, 138, 1607-1619.	0.7	12
89	Preventing and troubleshooting artefacts in saturation labelled fluorescence 2â€ difference gel electrophoresis (saturation DiGE). Proteomics, 2011, 11, 4610-4621.	1.3	12
90	Outer Membrane Protein A of Bovine and Ovine Isolates of Mannheimia haemolytica Is Surface Exposed and Contains Host Species-Specific Epitopes. Infection and Immunity, 2011, 79, 4332-4341.	1.0	24

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91	Effects of a surface topography composite with puerariae radix on human STRO-1-positive stem cells. <i>Acta Biomaterialia</i> , 2010, 6, 3694-3703.	4.1	19
92	Fluorescence two-dimensional difference gel electrophoresis for biomaterial applications. <i>Journal of the Royal Society Interface</i> , 2010, 7, S107-118.	1.5	28
93	A novel phosphatase cascade regulates differentiation in <i>Trypanosoma brucei</i> via a glycosomal signaling pathway. <i>Genes and Development</i> , 2010, 24, 1306-1316.	2.7	115
94	<i>Leishmania major</i> H-line attenuated under pressure of gentamicin, induces a Th1 response which protects susceptible BALB/c mice against infection with virulent <i>L. major</i> . <i>Parasitology</i> , 2009, 136, 1243-1250.	0.7	12
95	Proteomic analysis of human osteoprogenitor response to disordered nanotopography. <i>Journal of the Royal Society Interface</i> , 2009, 6, 1075-1086.	1.5	35
96	Differential in-gel electrophoresis (DIGE) analysis of human bone marrow osteoprogenitor cell contact guidance. <i>Acta Biomaterialia</i> , 2009, 5, 1137-1146.	4.1	20
97	Identification of immunogenic proteins associated with protection against haemorrhagic septicaemia after vaccination of calves with a live-attenuated <i>aroA</i> derivative of <i>Pasteurella multocida</i> B:2. <i>Research in Veterinary Science</i> , 2009, 87, 207-210.	0.9	20
98	Gentamicin-attenuated <i>Leishmania infantum</i> : A clinicopathological study in dogs. <i>Veterinary Immunology and Immunopathology</i> , 2009, 129, 28-35.	0.5	9
99	Age-Related and Infection Intensity-Related Shifts in Antibody Recognition of Defined Protein Antigens in a Schistosome-Exposed Population. <i>Journal of Infectious Diseases</i> , 2008, 198, 167-75.	1.9	54
100	The Optimization of Protocols for Proteome Difference Gel Electrophoresis (DiGE) Analysis of Preneoplastic Skin. <i>Journal of Proteome Research</i> , 2007, 6, 3422-3432.	1.8	13
101	Identification of anti-infective targets through comparative proteomics. <i>Expert Review of Anti-Infective Therapy</i> , 2006, 4, 163-165.	2.0	2
102	Identification of developmentally-regulated proteins in <i>Leishmania panamensis</i> by proteome profiling of promastigotes and axenic amastigotes. <i>Molecular and Biochemical Parasitology</i> , 2006, 147, 64-73.	0.5	82
103	Functional analysis of <i>Trypanosoma brucei</i> PUF1. <i>Molecular and Biochemical Parasitology</i> , 2006, 150, 340-349.	0.5	43
104	Praziquantel Treatment of Individuals Exposed to <i>Schistosoma haematobium</i> Enhances Serological Recognition of Defined Parasite Antigens. <i>Journal of Infectious Diseases</i> , 2005, 192, 1108-1118.	1.9	80
105	A plethora of targets, a paucity of drugs: progress towards the development of novel chemotherapies for human African trypanosomiasis. <i>Expert Review of Anti-Infective Therapy</i> , 2003, 1, 157-165.	2.0	25
106	Chemotherapy of Human African Trypanosomiasis. <i>Current Pharmaceutical Design</i> , 2002, 8, 257-267.	0.9	53
107	<i>Leishmania mexicana</i> : promastigotes migrate through osmotic gradients. <i>Experimental Parasitology</i> , 2002, 102, 117-120.	0.5	30