

# Richard Burchmore

## List of Publications by Year in descending order

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107  
papers

2,587  
citations

172386

29  
h-index

243529

44  
g-index

119  
all docs

119  
docs citations

119  
times ranked

3981  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of microtopography in cellular mechanotransduction. <i>Biomaterials</i> , 2012, 33, 2835-2847.	5.7	139
2	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
3	Untargeted Metabolomics Reveals a Lack Of Synergy between Nifurtimox and Eflornithine against <i>Trypanosoma brucei</i> . <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1618.	1.3	101
4	Identification of Bacterial Target Proteins for the Salicylidene Acylhydrazide Class of Virulence-blocking Compounds. <i>Journal of Biological Chemistry</i> , 2011, 286, 29922-29931.	1.6	94
5	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
6	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
7	Discovery of factors linked to antimony resistance in <i>Leishmania panamensis</i> through differential proteome analysis. <i>Molecular and Biochemical Parasitology</i> , 2012, 183, 166-176.	0.5	73
8	Proteomics in Veterinary Medicine. <i>Veterinary Pathology</i> , 2014, 51, 351-362.	0.8	64
9	Enhancing the egg's natural defence against bacterial penetration by increasing cuticle deposition. <i>Animal Genetics</i> , 2013, 44, 661-668.	0.6	61
10	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
11	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
12	Chemotherapy of Human African Trypanosomiasis. <i>Current Pharmaceutical Design</i> , 2002, 8, 257-267.	0.9	53
13	The metabolic enzyme <i>AdhE</i> controls the virulence of <i>Escherichia coli</i> O157:H7. <i>Molecular Microbiology</i> , 2014, 93, 199-211.	1.2	49
14	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
15	Identification of ORC1/CDC6-Interacting Factors in <i>Trypanosoma brucei</i> Reveals Critical Features of Origin Recognition Complex Architecture. <i>PLoS ONE</i> , 2012, 7, e32674.	1.1	47
16	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
17	Microbiome-derived carnitine mimics as previously unknown mediators of gut-brain axis communication. <i>Science Advances</i> , 2020, 6, eaax6328.	4.7	45
18	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

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19	Functional analysis of <i>Trypanosoma brucei</i> PUF1. <i>Molecular and Biochemical Parasitology</i> , 2006, 150, 340-349.	0.5	43
20	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
21	Essential roles for deubiquitination in <i>Leishmania</i> life cycle progression. <i>PLoS Pathogens</i> , 2020, 16, e1008455.	2.1	39
22	Proteomics as a tool to explore human milk in health and disease. <i>Journal of Proteomics</i> , 2013, 88, 47-57.	1.2	37
23	Proteomic analysis of human osteoprogenitor response to disordered nanotopography. <i>Journal of the Royal Society Interface</i> , 2009, 6, 1075-1086.	1.5	35
24	Comparative proteomics profiling of a gentamicin-attenuated <i>Leishmania infantum</i> cell line identifies key changes in parasite thiol-redox metabolism. <i>Journal of Proteomics</i> , 2012, 75, 1463-1471.	1.2	35
25	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
26	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
27	<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
28	Unanchored tria€NEDD8 inhibits PARPâ€1 to protect from oxidative stressâ€induced cell death. <i>EMBO Journal</i> , 2019, 38, .	3.5	34
29	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
30	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
31	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
32	Proteomic analysis of glycosomes from <i>Trypanosoma cruzi</i> epimastigotes. <i>Molecular and Biochemical Parasitology</i> , 2019, 229, 62-74.	0.5	31
33	<i>Leishmania mexicana</i> : promastigotes migrate through osmotic gradients. <i>Experimental Parasitology</i> , 2002, 102, 117-120.	0.5	30
34	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
35	Fluorescence two-dimensional difference gel electrophoresis for biomaterial applications. <i>Journal of the Royal Society Interface</i> , 2010, 7, S107-18.	1.5	28
36	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

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37	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
38	Quantitative proteomic profiling of bovine follicular fluid during follicle development. <i>Biology of Reproduction</i> , 2017, 97, 835-849.	1.2	25
39	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
40	Outer Membrane Protein A of Bovine and Ovine Isolates of <i>Mannheimia haemolytica</i> Is Surface Exposed and Contains Host Species-Specific Epitopes. <i>Infection and Immunity</i> , 2011, 79, 4332-4341.	1.0	24
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	Effects of a surface topography composite with <i>puerariae radix</i> on human STRO-1-positive stem cells. <i>Acta Biomaterialia</i> , 2010, 6, 3694-3703.	4.1	19
50	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
51	Predicting the outer membrane proteome of <i>Pasteurella multocida</i> based on consensus prediction enhanced by results integration and manual confirmation. <i>BMC Bioinformatics</i> , 2012, 13, 63.	1.2	18
52	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
53	Low sulfated heparins target multiple proteins for central nervous system repair. <i>Glia</i> , 2019, 67, 668-687.	2.5	18
54	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

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55	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
56	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
57	2D-DIGE Proteomic Analysis of Mesenchymal Stem Cell Cultured on the Elasticity-tunable Hydrogels. <i>Cell Structure and Function</i> , 2012, 37, 127-139.	0.5	15
58	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
59	Effects of Low 6:3 Ratio in Sow Diet and Seaweed Supplement in Piglet Diet on Performance, Colostrum and Milk Fatty Acid Profiles, and Oxidative Status. <i>Animals</i> , 2020, 10, 2049.	1.0	14
60	Glucose-Regulated Protein 78 Interacts with Zika Virus Envelope Protein and Contributes to a Productive Infection. <i>Viruses</i> , 2020, 12, 524.	1.5	14
61	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
62	<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
63	Screening trematodes for novel intervention targets: a proteomic and immunological comparison of <i>Schistosoma haematobium</i> , <i>Schistosoma bovis</i> and <i>Echinostoma caproni</i> . <i>Parasitology</i> , 2011, 138, 1607-1619.	0.7	12
64	Preventing and troubleshooting artefacts in saturation labelled fluorescence difference gel electrophoresis (saturation DiGE). <i>Proteomics</i> , 2011, 11, 4610-4621.	1.3	12
65	Mapping pathways to drug resistance with proteomics. <i>Expert Review of Proteomics</i> , 2014, 11, 1-3.	1.3	12
66	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
67	<i>Trypanosoma cruzi</i> contains two galactokinases; molecular and biochemical characterization. <i>Parasitology International</i> , 2016, 65, 472-482.	0.6	10
68	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
69	Gentamicin-attenuated <i>Leishmania infantum</i> : A clinicopathological study in dogs. <i>Veterinary Immunology and Immunopathology</i> , 2009, 129, 28-35.	0.5	9
70	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
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	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

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73	Proteomic analysis reveals differentially abundant proteins probably involved in the virulence of amastigote and promastigote forms of <i>Leishmania infantum</i> . <i>Parasitology Research</i> , 2021, 120, 679-692.	0.6	9
74	Combined Untargeted and Targeted Metabolomics Approaches Reveal Urinary Changes of Amino Acids and Energy Metabolism in Canine Babesiosis With Different Levels of Kidney Function. <i>Frontiers in Microbiology</i> , 2021, 12, 715701.	1.5	9
75	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
76	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
77	Limited Impact of the Protein Corona on the Cellular Uptake of PEGylated Zein Micelles by Melanoma Cancer Cells. <i>Pharmaceutics</i> , 2022, 14, 439.	2.0	9
78	Strategies to dissect parasite proteomes. <i>Parasitology</i> , 2012, 139, 1119-1130.	0.7	8
79	Alteration in mononuclear cell subpopulations in dogs immunized with gentamicin-attenuated <i>Leishmania infantum</i> . <i>Parasitology</i> , 2012, 139, 1689-1696.	0.7	6
80	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
81	Multi Platforms Strategies and Metabolomics Approaches for the Investigation of Comprehensive Metabolite Profile in Dogs with <i>Babesia canis</i> Infection. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1575.	1.8	6
82	Mapping the Influence of the Gut Microbiota on Small Molecules across the Microbiome Gut Brain Axis. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 649-659.	1.2	6
83	Comparative Draft Genomes of <i>Leishmania orientalis</i> Isolate PCM2 (Formerly Named <i>Leishmania</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock Biology, 2022, 11, 515.	1.3	6
84	aBravo Is a Novel <i>Aedes aegypti</i> Antiviral Protein That Interacts with, but Acts Independently of, the Exogenous siRNA Pathway Effector Dicer 2. <i>Viruses</i> , 2020, 12, 748.	1.5	5
85	Uncomplicated <i>Plasmodium vivax</i> malaria: mapping the proteome from circulating platelets. <i>Clinical Proteomics</i> , 2022, 19, 1.	1.1	5
86	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
87	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
88	Abundance of plasma proteins in response to divergent ratios of dietary 6:3 fatty acids in gestating and lactating sows using a quantitative proteomics approach. <i>Journal of Proteomics</i> , 2022, 260, 104562.	1.2	4
89	Protein Expression of STRO-1 Cells in Response to Different Topographic Features. <i>Journal of Tissue Engineering</i> , 2011, 2011, 534603.	2.3	3
90	Parasites in the brain? The search for sleeping sickness biomarkers. <i>Expert Review of Anti-Infective Therapy</i> , 2012, 10, 1283-1286.	2.0	3

