

# Shawn R Campagna

## List of Publications by Year in descending order

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101  
papers

4,309  
citations

117625

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61  
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108  
all docs

108  
docs citations

108  
times ranked

5843  
citing authors

#	ARTICLE	IF	CITATIONS
1	Avian metabolomics. , 2022, , 49-63.		1
2	Trait Energy and Fatigue May Be Connected to Gut Bacteria among Young Physically Active Adults: An Exploratory Study. <i>Nutrients</i> , 2022, 14, 466.	4.1	9
3	Gut Microbiome and Metabolome Variations in Self-Identified Muscle Builders Who Report Using Protein Supplements. <i>Nutrients</i> , 2022, 14, 533.	4.1	2
4	Changes in Microbiome Activity and Sporadic Viral Infection Help Explain Observed Variability in Microcosm Studies. <i>Frontiers in Microbiology</i> , 2022, 13, 809989.	3.5	4
5	Postmortem Skeletal Microbial Community Composition and Function in Buried Human Remains. <i>MSystems</i> , 2022, 7, e0004122.	3.8	9
6	Cross-Omics Analysis of Fenugreek Supplementation Reveals Beneficial Effects Are Caused by Gut Microbiome Changes Not Mammalian Host Physiology. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3654.	4.1	2
7	Independent and Interactive Effects of Genetic Background and Sex on Tissue Metabolomes of Adipose, Skeletal Muscle, and Liver in Mice. <i>Metabolites</i> , 2022, 12, 337.	2.9	0
8	Apex Predator Nematodes and Meso-Predator Bacteria Consume Their Basal Insect Prey through Discrete Stages of Chemical Transformations. <i>MSystems</i> , 2022, 7, e0031222.	3.8	3
9	Duodenal Metabolic Profile Changes in Heat-Stressed Broilers. <i>Animals</i> , 2022, 12, 1337.	2.3	4
10	<i>Pseudomonas</i> sp. Strain 273 Incorporates Organofluorine into the Lipid Bilayer during Growth with Fluorinated Alkanes. <i>Environmental Science &amp; Technology</i> , 2022, 56, 8155-8166.	10.0	10
11	Preovulatory serum estradiol concentration is positively associated with oocyte ATP and follicular fluid metabolite abundance in lactating beef cattle. <i>Journal of Animal Science</i> , 2022, 100, .	0.5	5
12	Preovulatory follicular fluid and serum metabolome profiles in lactating beef cows with thin, moderate, and obese body condition. <i>Journal of Animal Science</i> , 2022, 100, .	0.5	6
13	<i>Enterococcus faecalis</i> Readily Adapts Membrane Phospholipid Composition to Environmental and Genetic Perturbation. <i>Frontiers in Microbiology</i> , 2021, 12, 616045.	3.5	14
14	Removal of peptidoglycan and inhibition of active cellular processes leads to daptomycin tolerance in <i>Enterococcus faecalis</i> . <i>PLoS ONE</i> , 2021, 16, e0254796.	2.5	7
15	Correlation between Pre-Ovulatory Follicle Diameter and Follicular Fluid Metabolome Profiles in Lactating Beef Cows. <i>Metabolites</i> , 2021, 11, 623.	2.9	13
16	Potent Anti-Inflammatory, Arylpyrazole-Based Glucocorticoid Receptor Agonists That Do Not Impair Insulin Secretion. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 1568-1577.	2.8	3
17	The Rid family member RutC of <i>Escherichia coli</i> is a 3-aminoacrylate deaminase. <i>Journal of Biological Chemistry</i> , 2021, 296, 100651.	3.4	5
18	Metabolite discovery through global annotation of untargeted metabolomics data. <i>Nature Methods</i> , 2021, 18, 1377-1385.	19.0	107

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19	Safety and pharmacokinetics of naringenin: A randomized, controlled, single ascending dose clinical trial. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, 91-98.	4.4	74
20	Mineralization versus fermentation: evidence for two distinct anaerobic bacterial degradation pathways for dichloromethane. <i>ISME Journal</i> , 2020, 14, 959-970.	9.8	21
21	<i>Pseudomonas</i> sp. Strain 273 Degrades Fluorinated Alkanes. <i>Environmental Science &amp; Technology</i> , 2020, 54, 14994-15003.	10.0	21
22	Muscle Metabolome Profiles in Woody Breast-(un)Affected Broilers: Effects of Quantum Blue Phytase-Enriched Diet. <i>Frontiers in Veterinary Science</i> , 2020, 7, 458.	2.2	18
23	Isoflurane anesthesia disrupts the cortical metabolome. <i>Journal of Neurophysiology</i> , 2020, 124, 2012-2021.	1.8	5
24	Nitrogen flux into metabolites and microcystins changes in response to different nitrogen sources in <i>Microcystis aeruginosa</i> . <i>Environmental Microbiology</i> , 2020, 22, 2419-2431.	3.8	18
25	Impact of Fatty-Acid Labeling of <i>Bacillus subtilis</i> Membranes on the Cellular Lipidome and Proteome. <i>Frontiers in Microbiology</i> , 2020, 11, 914.	3.5	8
26	Multiomics Evaluation of Human Fat-Derived Mesenchymal Stem Cells on an Osteobiologic Nanocomposite. <i>BioResearch Open Access</i> , 2020, 9, 37-50.	2.6	6
27	Populations of <i>Populus angustifolia</i> have evolved distinct metabolic profiles that influence their surrounding soil. <i>Plant and Soil</i> , 2020, 448, 399-411.	3.7	7
28	Rumen fluid metabolomics of beef steers differing in feed efficiency. <i>Metabolomics</i> , 2020, 16, 23.	3.0	37
29	Comparative Decomposition of Humans and Pigs: Soil Biogeochemistry, Microbial Activity and Metabolomic Profiles. <i>Frontiers in Microbiology</i> , 2020, 11, 608856.	3.5	13
30	Root-Associated <i>Streptomyces</i> Isolates Harboring <i>mecA</i> Genes Demonstrate Enhanced Plant Colonization. <i>Phytobiomes Journal</i> , 2019, 3, 165-176.	2.7	11
31	Design and Evaluation of a Gas Chromatograph-Atmospheric Pressure Chemical Ionization Interface for an Exact Orbitrap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2369-2379.	2.8	10
32	One week of continuous corticosterone exposure impairs hepatic metabolic flexibility, promotes islet $\beta$ -cell proliferation, and reduces physical activity in male C57BL/6 mice. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019, 195, 105468.	2.5	14
33	Urea Is Both a Carbon and Nitrogen Source for <i>Microcystis aeruginosa</i> : Tracking $^{13}\text{C}$ Incorporation at Bloom pH Conditions. <i>Frontiers in Microbiology</i> , 2019, 10, 1064.	3.5	75
34	Loss of carotenoids from membranes of <i>Pantoea</i> sp. YR343 results in altered lipid composition and changes in membrane biophysical properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 1338-1345.	2.6	14
35	Extensive metabolic remodeling after limiting mitochondrial lipid burden is consistent with an improved metabolic health profile. <i>Journal of Biological Chemistry</i> , 2019, 294, 12313-12327.	3.4	22
36	Expanding lipidomics coverage: effective ultra performance liquid chromatography-high resolution mass spectrometer methods for detection and quantitation of cardiolipin, phosphatidylglycerol, and lysyl-phosphatidylglycerol. <i>Metabolomics</i> , 2019, 15, 53.	3.0	18

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37	Differential Sensitivity to Plasmodium yoelii Infection in C57BL/6 Mice Impacts Gut-Liver Axis Homeostasis. Scientific Reports, 2019, 9, 3472.	3.3	30
38	Carbon Fate and Flux in <i>Prochlorococcus</i> under Nitrogen Limitation. MSystems, 2019, 4, .	3.8	12
39	Rumen Bacteria and Serum Metabolites Predictive of Feed Efficiency Phenotypes in Beef Cattle. Scientific Reports, 2019, 9, 19265.	3.3	34
40	Integrated Proteomics and Lipidomics Reveal That the Swarming Motility of <i>Paenibacillus polymyxa</i> Is Characterized by Phospholipid Modification, Surfactant Deployment, and Flagellar Specialization Relative to Swimming Motility. Frontiers in Microbiology, 2019, 10, 2594.	3.5	9
41	Midgut metabolomic profiling of fall armyworm ( <i>Spodoptera frugiperda</i> ) with field-evolved resistance to Cry1F corn. Insect Biochemistry and Molecular Biology, 2019, 106, 1-9.	2.7	12
42	Proteogenomics Reveals Novel Reductive Dehalogenases and Methyltransferases Expressed during Anaerobic Dichloromethane Metabolism. Applied and Environmental Microbiology, 2019, 85, .	3.1	21
43	Seasonally Relevant Cool Temperatures Interact with N Chemistry to Increase Microcystins Produced in Lab Cultures of <i>Microcystis aeruginosa</i> NIES-843. Environmental Science & Technology, 2018, 52, 4127-4136.	10.0	55
44	Impacts of Glutaraldehyde on Microbial Community Structure and Degradation Potential in Streams Impacted by Hydraulic Fracturing. Environmental Science & Technology, 2018, 52, 5989-5999.	10.0	35
45	Tissue Level Diet and Sex-by-Diet Interactions Reveal Unique Metabolite and Clustering Profiles Using Untargeted Liquid Chromatography–Mass Spectrometry on Adipose, Skeletal Muscle, and Liver Tissue in C57BL/6J Mice. Journal of Proteome Research, 2018, 17, 1077-1090.	3.7	17
46	Purinyl-cobamide is a native prosthetic group of reductive dehalogenases. Nature Chemical Biology, 2018, 14, 8-14.	8.0	58
47	Metabolomics Approach in the Study of the Well-Defined Polyherbal Preparation Zyflamend. Journal of Medicinal Food, 2018, 21, 306-316.	1.5	7
48	Discovery and Functional Characterization of a Yeast Sugar Alcohol Phosphatase. ACS Chemical Biology, 2018, 13, 3011-3020.	3.4	12
49	Bifunctional amyloid-reactive peptide promotes binding of antibody 11-1F4 to diverse amyloid types and enhances therapeutic efficacy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10839-E10848.	7.1	9
50	Metabolomic analysis of mouse prefrontal cortex reveals upregulated analytes during wakefulness compared to sleep. Scientific Reports, 2018, 8, 11225.	3.3	40
51	Elucidating Duramycin™s Bacterial Selectivity and Mode of Action on the Bacterial Cell Envelope. Frontiers in Microbiology, 2018, 9, 219.	3.5	14
52	Metabolome changes are induced in the arbuscular mycorrhizal fungus <i>Gigaspora margarita</i> by germination and by its bacterial endosymbiont. Mycorrhiza, 2018, 28, 421-433.	2.8	17
53	Untargeted metabolomics confirms and extends the understanding of the impact of aminoimidazole carboxamide ribotide (AICAR) in the metabolic network of <i>Salmonella enterica</i> . Microbial Cell, 2018, 5, 74-87.	3.2	19
54	Transcriptomic and Metabolomic Profiling of Chicken Adipose Tissue: Dual Purpose Benefit for Human Obesity and Poultry Production. Current Metabolomics, 2018, 6, 96-102.	0.5	0

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55	Elevated Temperature Enhances Short to Medium Chain Acyl Homoserine Lactone Production by Black Band Disease Associated Vibrios. <i>FEMS Microbiology Ecology</i> , 2017, 93, fix005.	2.7	9
56	Serum metabolites associated with feed efficiency in black angus steers. <i>Metabolomics</i> , 2017, 13, 1.	3.0	39
57	Maternal consumption of fish oil programs reduced adiposity in broiler chicks. <i>Scientific Reports</i> , 2017, 7, 13129.	3.3	8
58	Metabolomics reveals distinct neurochemical profiles associated with stress resilience. <i>Neurobiology of Stress</i> , 2017, 7, 103-112.	4.0	25
59	Recognition cascade and metabolite transfer in a marine bacteria-phytoplankton model system. <i>Environmental Microbiology</i> , 2017, 19, 3500-3513.	3.8	111
60	Role of phosphatidylserine synthase in shaping the phospholipidome of <i>Candida albicans</i> . <i>FEMS Yeast Research</i> , 2017, 17, .	2.3	22
61	Integrated proteomics and metabolomics suggests symbiotic metabolism and multimodal regulation in a fungal-endobacterial system. <i>Environmental Microbiology</i> , 2017, 19, 1041-1053.	3.8	38
62	Alcohol-associated intestinal dysbiosis impairs pulmonary host defense against <i>Klebsiella pneumoniae</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006426.	4.7	54
63	Microcystin-LR does not induce alterations to transcriptomic or metabolomic profiles of a model heterotrophic bacterium. <i>PLoS ONE</i> , 2017, 12, e0189608.	2.5	4
64	Functional Characteristics of the Gut Microbiome in C57BL/6 Mice Differentially Susceptible to <i>Plasmodium yoelii</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 1520.	3.5	46
65	Exogenous Fatty Acids Protect <i>Enterococcus faecalis</i> from Daptomycin-Induced Membrane Stress Independently of the Response Regulator LiaR. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4410-4420.	3.1	38
66	The corrinoid cofactor of reductive dehalogenases affects dechlorination rates and extents in organohalide-respiring <i>Dehalococcoides mccartyi</i> . <i>ISME Journal</i> , 2016, 10, 1092-1101.	9.8	59
67	Composition of the gut microbiota modulates the severity of malaria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2235-2240.	7.1	198
68	Thiobenzothiazole-modified Hydrocortisones Display Anti-inflammatory Activity with Reduced Impact on Islet $\beta$ -Cell Function. <i>Journal of Biological Chemistry</i> , 2015, 290, 13401-13416.	3.4	9
69	<i>Phaeobacter</i> sp. Strain Y4I Utilizes Two Separate Cell-to-Cell Communication Systems To Regulate Production of the Antimicrobial Indigoidine. <i>Applied and Environmental Microbiology</i> , 2015, 81, 1417-1425.	3.1	19
70	Cryptic carbon and sulfur cycling between surface ocean plankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 453-457.	7.1	348
71	Novobiocin and peptide analogs of $\hat{\mu}$ -factor are positive allosteric modulators of the yeast G protein-coupled receptor Ste2p. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 916-924.	2.6	3
72	Identification of 4-Hydroxycumyl Alcohol As the Major MnO <sub>2</sub> -Mediated Bisphenol A Transformation Product and Evaluation of Its Environmental Fate. <i>Environmental Science &amp; Technology</i> , 2015, 49, 6214-6221.	10.0	46

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73	Quorum Sensing Signal Production and Microbial Interactions in a Polymicrobial Disease of Corals and the Coral Surface Mucopolysaccharide Layer. <i>PLoS ONE</i> , 2014, 9, e108541.	2.5	30
74	4-Methylphenol produced in freshwater sediment microcosms is not a bisphenol A metabolite. <i>Chemosphere</i> , 2014, 117, 521-526.	8.2	7
75	Phage infection of an environmentally relevant marine bacterium alters host metabolism and lysate composition. <i>ISME Journal</i> , 2014, 8, 1089-1100.	9.8	127
76	Ecology and Physiology of the Pathogenic Cyanobacterium <i>Roseofilum reptotaenium</i> . <i>Life</i> , 2014, 4, 968-987.	2.4	16
77	Molecular and metabolic profiles suggest that increased lipid catabolism in adipose tissue contributes to leanness in domestic chickens. <i>Physiological Genomics</i> , 2014, 46, 315-327.	2.3	23
78	Toward More Transparent and Reproducible Omics Studies Through a Common Metadata Checklist and Data Publications. <i>OMICS A Journal of Integrative Biology</i> , 2014, 18, 10-14.	2.0	54
79	Structure and Stability of Phenoxide and Fluorophenoxide Anions Investigated with Infrared Multiple-Photon Dissociation and Detachment Spectroscopy and Tandem Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8597-8605.	2.5	4
80	Nutrients drive transcriptional changes that maintain metabolic homeostasis but alter genome architecture in <i>Microcystis</i> . <i>ISME Journal</i> , 2014, 8, 2080-2092.	9.8	84
81	Choline and Choline Metabolite Patterns and Associations in Blood and Milk during Lactation in Dairy Cows. <i>PLoS ONE</i> , 2014, 9, e103412.	2.5	58
82	Integration of the Second Messenger c-di-GMP into the Chemotactic Signaling Pathway. <i>MBio</i> , 2013, 4, e00001-13.	4.1	59
83	Evolution of the Toxins Muscarine and Psilocybin in a Family of Mushroom-Forming Fungi. <i>PLoS ONE</i> , 2013, 8, e64646.	2.5	52
84	Quorum sensing control of phosphorus acquisition in <i>Trichodesmium</i> consortia. <i>ISME Journal</i> , 2012, 6, 422-429.	9.8	108
85	Autoinducer-2 influences interactions amongst pioneer colonizing streptococci in oral biofilms. <i>Microbiology (United Kingdom)</i> , 2012, 158, 1783-1795.	1.8	67
86	Transcriptomic and metabolomic profiling of chicken adipose tissue in response to insulin neutralization and fasting. <i>BMC Genomics</i> , 2012, 13, 441.	2.8	84
87	Stability of Gas-Phase Tartaric Acid Anions Investigated by Quantum Chemistry, Mass Spectrometry, and Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4789-4800.	2.5	7
88	MetabR: an R script for linear model analysis of quantitative metabolomic data. <i>BMC Research Notes</i> , 2012, 5, 596.	1.4	33
89	Detection and Quantitation of Bacterial Acylhomoserine Lactone Quorum Sensing Molecules via Liquid Chromatography-Isotope Dilution Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 1243-1252.	6.5	19
90	Riboneogenesis in Yeast. <i>Cell</i> , 2011, 145, 969-980.	28.9	105

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91	Pancreatic Î²-Cell Death in Response to Pro-Inflammatory Cytokines Is Distinct from Genuine Apoptosis. PLoS ONE, 2011, 6, e22485.	2.5	65
92	A biomimetic synthesis of (âˆš)-ascorbyl phloroglucinol and studies toward the construction of ascorbyl-modified catechin natural products and analogues. Tetrahedron, 2011, 67, 9265-9272.	1.9	10
93	Two-dimensional liquid chromatography/mass spectrometry/mass spectrometry separation of water-soluble metabolites. Journal of Chromatography A, 2010, 1217, 8161-8166.	3.7	42
94	Establishing a Quantitative Definition of Quorum Sensing Provides Insight into the Information Content of the Autoinducer Signals in <i>Vibrio harveyi</i> and <i>Escherichia coli</i>. Biochemistry, 2010, 49, 5621-5623.	2.5	11
95	Direct Quantitation of the Quorum Sensing Signal, Autoinducer-2, in Clinically Relevant Samples by Liquid Chromatographyâˆ“Tandem Mass Spectrometry. Analytical Chemistry, 2009, 81, 6374-6381.	6.5	37
96	Autoinducer-2 is produced in saliva-fed flow conditions relevant to natural oral biofilms. Journal of Applied Microbiology, 2008, 105, 2096-2103.	3.1	50
97	The Quorum-Sensing Molecule Autoinducer 2 Regulates Motility and Flagellar Morphogenesis in <i>Helicobacter pylori</i>. Journal of Bacteriology, 2007, 189, 6109-6117.	2.2	84
98	Autoinducer 2: a concentration-dependent signal for mutualistic bacterial biofilm growth. Molecular Microbiology, 2006, 60, 1446-1456.	2.5	327
99	An Expedient Synthesis of DPD and Boron Binding Studies. Organic Letters, 2005, 7, 569-572.	4.6	121
100	Boron Binding with the Quorum Sensing Signal AI-2 and Analogues. Organic Letters, 2004, 6, 2635-2637.	4.6	39
101	Salmonella typhimurium Recognizes a Chemically Distinct Form of the Bacterial Quorum-Sensing Signal AI-2. Molecular Cell, 2004, 15, 677-687.	9.7	502