

# Phillip R Myer

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,322  
citations

394286

19  
h-index

377752

34  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rumen Microbiome from Steers Differing in Feed Efficiency. PLoS ONE, 2015, 10, e0129174.	1.1	307
2	Evaluation of 16S rRNA amplicon sequencing using two next-generation sequencing technologies for phylogenetic analysis of the rumen bacterial community in steers. Journal of Microbiological Methods, 2016, 127, 132-140.	0.7	79
3	Assignment of virus and antimicrobial resistance genes to microbial hosts in a complex microbial community by combined long-read assembly and proximity ligation. Genome Biology, 2019, 20, 153.	3.8	66
4	Response of Soil Microorganisms to As-Produced and Functionalized Single-Wall Carbon Nanotubes (SWNTs). Environmental Science & Technology, 2012, 46, 13471-13479.	4.6	63
5	Altering the Gut Microbiome of Cattle: Considerations of Host-Microbiome Interactions for Persistent Microbiome Manipulation. Microbial Ecology, 2019, 77, 523-536.	1.4	63
6	Microbial community profiles of the jejunum from steers differing in feed efficiency <sup>1,2,3</sup> . Journal of Animal Science, 2016, 94, 327-338.	0.2	62
7	Cecum microbial communities from steers differing in feed efficiency <sup>1,2,3</sup> . Journal of Animal Science, 2015, 93, 5327-5340.	0.2	58
8	Microbial community profiles of the colon from steers differing in feed efficiency. SpringerPlus, 2015, 4, 454.	1.2	52
9	Vaginal and Uterine Bacterial Communities in Postpartum Lactating Cows. Frontiers in Microbiology, 2017, 8, 1047.	1.5	52
10	Analysis of the gut bacterial communities in beef cattle and their association with feed intake, growth, and efficiency <sup>1,2,3</sup> . Journal of Animal Science, 2017, 95, 3215-3224.	0.2	48
11	Uterine and vaginal bacterial community diversity prior to artificial insemination between pregnant and nonpregnant postpartum cows <sup>1</sup> . Journal of Animal Science, 2019, 97, 4298-4304.	0.2	46
12	Serum metabolites associated with feed efficiency in black angus steers. Metabolomics, 2017, 13, 1.	1.4	39
13	Rumen fluid metabolomics of beef steers differing in feed efficiency. Metabolomics, 2020, 16, 23.	1.4	37
14	Considerations and best practices in animal science 16S ribosomal RNA gene sequencing microbiome studies. Journal of Animal Science, 2022, 100, .	0.2	36
15	Bacterial taxonomic composition of the postpartum cow uterus and vagina prior to artificial insemination <sup>1</sup> . Journal of Animal Science, 2019, 97, 4305-4313.	0.2	35
16	Rumen Bacteria and Serum Metabolites Predictive of Feed Efficiency Phenotypes in Beef Cattle. Scientific Reports, 2019, 9, 19265.	1.6	34
17	Temporal Stability of the Ruminal Bacterial Communities in Beef Steers. Scientific Reports, 2019, 9, 9522.	1.6	28
18	Analysis of the gut bacterial communities in beef cattle and their association with feed intake, growth, and efficiency. Journal of Animal Science, 2017, 95, 3215.	0.2	25

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19	Bovine Genome-Microbiome Interactions: Metagenomic Frontier for the Selection of Efficient Productivity in Cattle Systems. <i>MSystems</i> , 2019, 4, .	1.7	23
20	Effect of Biochar Type and Size on <i>in Vitro</i> Rumen Fermentation of Orchard Grass Hay. <i>Agricultural Sciences</i> , 2017, 08, 316-325.	0.2	19
21	Methane production and methanogen levels in steers that differ in residual gain <sup>123</sup> . <i>Journal of Animal Science</i> , 2015, 93, 2375-2381.	0.2	18
22	Metagenomic and near full-length 16S rRNA sequence data in support of the phylogenetic analysis of the rumen bacterial community in steers. <i>Data in Brief</i> , 2016, 8, 1048-1053.	0.5	12
23	The effect of a novel low temperature-short time (LTST) process to extend the shelf-life of fluid milk. <i>SpringerPlus</i> , 2016, 5, 660.	1.2	11
24	Fescue toxicosis and its influence on the rumen microbiome: mitigation of production losses through clover isoflavones. <i>Journal of Applied Animal Research</i> , 2018, 46, 1280-1288.	0.4	11
25	Effects of red clover isoflavones on tall fescue seed fermentation and microbial populations <i>in vitro</i> . <i>PLoS ONE</i> , 2018, 13, e0201866.	1.1	11
26	Effects of endophyte-infected tall fescue seed and red clover isoflavones on rumen microbial populations and physiological parameters of beef cattle <sup>1,2</sup> . <i>Translational Animal Science</i> , 2019, 3, 315-328.	0.4	11
27	Classification of 16S rRNA reads is improved using a niche-specific database constructed by near-full length sequencing. <i>PLoS ONE</i> , 2020, 15, e0235498.	1.1	11
28	The effects of feeding monensin on rumen microbial communities and methanogenesis in bred heifers fed in a drylot. <i>Livestock Science</i> , 2018, 212, 131-136.	0.6	10
29	Piceatannol antagonizes lipolysis by promoting autophagy-lysosome-dependent degradation of lipolytic protein clusters in adipocytes. <i>Journal of Nutritional Biochemistry</i> , 2022, 105, 108998.	1.9	8
30	The effects of protein level on cytokines and chemokines in the uterine environment of beef heifers during development. <i>Journal of Animal Science</i> , 2021, 99, .	0.2	6
31	Microbiomes in ruminant protein production and food security.. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , 0, , 1-11.	0.6	6
32	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, .	0.2	6
33	Evaluation of Reproductive Tract Cytokines in Post-partum Beef Cows Relating to Reproductive Microbiota and Fertility Outcomes. <i>Frontiers in Animal Science</i> , 2021, 2, .	0.8	5
34	Effect of stocking density and effective fiber on the ruminal bacterial communities in lactating Holstein cows. <i>PeerJ</i> , 2020, 8, e9079.	0.9	4
35	Rumen and Serum Metabolomes in Response to Endophyte-Infected Tall Fescue Seed and Isoflavone Supplementation in Beef Steers. <i>Toxins</i> , 2020, 12, 744.	1.5	3
36	Ruminal Protozoal Populations of Angus Steers Differing in Feed Efficiency. <i>Animals</i> , 2021, 11, 1561.	1.0	3

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37	392 Gut bacterial communities and their association with production parameters in beef cattle. <i>Journal of Animal Science</i> , 2016, 94, 183-184.	0.2	2
38	0451 Analysis of the gut microbiome in beef cattle and its association with feed intake, growth, and efficiency. <i>Journal of Animal Science</i> , 2016, 94, 216-216.	0.2	2
39	PSII-27 Effect of endophyte-infected tall fescue seed and red clover isoflavones on the serum metabolites in beef steers. <i>Journal of Animal Science</i> , 2020, 98, 374-375.	0.2	2
40	Ruminal Bacterial Communities and Metabolome Variation in Beef Heifers Divergent in Feed Efficiency. <i>Ruminants</i> , 2022, 2, 282-296.	0.4	2
41	Bacterial Communities of the Uterus and Rumen During Heifer Development With Protein Supplementation. <i>Frontiers in Animal Science</i> , 0, 3, .	0.8	2
42	Interactive Web-Based Tool for Nutritional Microbiology in Applied Agriculture Outreach. <i>Journal of Microbiology and Biology Education</i> , 2018, 19, .	0.5	1
43	The effects of feeding ferric citrate on ruminal bacteria, methanogenic archaea and methane production in growing beef steers. <i>Access Microbiology</i> , 2021, 3, acmi000180.	0.2	1
44	Bacteria in the Reproductive Tract: They Are Not All Bad!. <i>Frontiers for Young Minds</i> , 0, 9, .	0.8	1
45	32 Bacterial Communities in the Uterus and Rumen of Beef Heifers Throughout Development with Protein Supplementation. <i>Journal of Animal Science</i> , 2022, 100, 19-19.	0.2	1
46	112 Vaginal and uterine bacterial communities in postpartum lactating cows. <i>Journal of Animal Science</i> , 2017, 95, 52-53.	0.2	0
47	87 Bacterial communities of the uterus and vagina between resulting pregnant and non-pregnant postpartum beef cows. <i>Journal of Animal Science</i> , 2019, 97, 49-49.	0.2	0
48	Improving Education in Agricultural Biosciences through Studying Abroad in the United States. <i>Journal of Microbiology and Biology Education</i> , 2019, 20, .	0.5	0
49	PSI-17 A 16S rDNA reference database of the deep-nasopharynx in steers for bacterial community analysis of cattle with bovine respiratory disease complex. <i>Journal of Animal Science</i> , 2019, 97, 251-251.	0.2	0
50	375 The effect of supplemental protein from weaning until first breeding on heifer development and uterine environment characteristics. <i>Journal of Animal Science</i> , 2019, 97, 140-140.	0.2	0
51	Data of bacterial community dynamics resulting from total rumen content exchange in beef cattle. <i>BMC Research Notes</i> , 2021, 14, 308.	0.6	0
52	244 Fertility Outcomes Associated with Reproductive Tract Cytokines and Microbiota in Postpartum Beef Cows. <i>Journal of Animal Science</i> , 2021, 99, 128-129.	0.2	0
53	PSIX-28 Parity and lactation stage affect the sow milk microbiome. <i>Journal of Animal Science</i> , 2021, 99, 498-499.	0.2	0
54	PSI-18 Rumen fluid metabolites associated with feed efficiency in Angus steers. <i>Journal of Animal Science</i> , 2019, 97, 247-247.	0.2	0

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55	Microbes Help Predict More Efficient Cattle. <i>Frontiers for Young Minds</i> , 0, 8, .	0.8	0
56	PSI-22 Rumen fluid metabolites influenced by endophyte-infected tall fescue seed and red clover isoflavones in beef steers. <i>Journal of Animal Science</i> , 2020, 98, 269-270.	0.2	0
57	PSI-10 Effects of a Moderate and Aggressive Implant Strategy on the Rumen Microbial Community in Steers. <i>Journal of Animal Science</i> , 2020, 98, 269-269.	0.2	0
58	PSIV-18 Pro- and anti-inflammatory cytokines in the uterine environment throughout beef heifer development with supplemental protein. <i>Journal of Animal Science</i> , 2020, 98, 282-282.	0.2	0
59	143 Rumen Fluid Metabolites as Potential Biomarkers of Feed Efficiency in Angus Steers. <i>Journal of Animal Science</i> , 2020, 98, 17-17.	0.2	0
60	181 Uterine and vaginal bacteria and cytokine profiles prior to artificial insemination between resulting pregnant and open postpartum beef cows. <i>Journal of Animal Science</i> , 2020, 98, 43-44.	0.2	0
61	144 Rumen Fluid Metabolites as Potential Biomarkers of Feed Efficiency in Angus Steers. <i>Journal of Animal Science</i> , 2020, 98, 51-52.	0.2	0
62	Feeding an acetate-based oral electrolyte reduces the ex vivo <i>Escherichia coli</i> growth potential in the abomasum of calves fed oral electrolytes alone or 30 minutes following a milk feeding compared with feeding a bicarbonate-based oral electrolyte. <i>Journal of Dairy Science</i> , 2022, 105, 1542-1554.	1.4	0
63	18 Effects of Protein Concentration, Degradability, and Beta-adrenergic Agonists on Ruminal Microbial Communities in Finishing Heifers. <i>Journal of Animal Science</i> , 2022, 100, 18-19.	0.2	0
64	Effects of a Moderate or Aggressive Implant Strategy on the Rumen Microbiome and Metabolome in Steers. <i>Frontiers in Animal Science</i> , 0, 3, .	0.8	0