Mark Lyte

List of Publications by Year
in descending order

132 papers	10,280 citations	36271 51 h-index	33869 99 g-index
141 all docs	141 docs citations	141 times ranked	7789 citing authors

#	Article	IF	Citations
1	Informal nutrition symposium: leveraging the microbiome (and the metabolome) for poultry production. Poultry Science, 2022, 101, 101588.	1.5	9
2	A neurochemical biogeography of the broiler chicken intestinal tract. Poultry Science, 2022, 101, 101671.	1.5	8
3	Distinct Cecal and Fecal Microbiome Responses to Stress Are Accompanied by Sex- and Diet-Dependent Changes in Behavior and Gut Serotonin. Frontiers in Neuroscience, 2022, 16, 827343.	1.4	7
4	Variation in spatial organization of the gut microbiota along the longitudinal and transverse axes of the intestines. Archives of Microbiology, 2022, 204, .	1.0	1
5	NIH Workshop Report: sensory nutrition and disease. American Journal of Clinical Nutrition, 2021, 113, 232-245.	2.2	19
6	Japanese quail (Coturnix japonica) as a novel model to study the relationship between the avian microbiome and microbial endocrinology-based host-microbe interactions. Microbiome, 2021, 9, 38.	4.9	11
7	Serotonin modulates Campylobacter jejuni physiology and in vitro interaction with the gut epithelium. Poultry Science, 2021, 100, 100944.	1.5	15
8	Gut Microbial and Metabolic Profiling Reveal the Lingering Effects of Infantile Iron Deficiency Unless Treated with Iron. Molecular Nutrition and Food Research, 2021, 65, e2001018.	1.5	4
9	Proteobacteria abundance during nursing predicts physical growth and brain volume at one year of age in young rhesus monkeys. FASEB Journal, 2021, 35, e21682.	0.2	8
10	Voluntary bingeâ€patterned alcohol drinking and sexâ€specific influences on monoamineâ€related neurochemical signatures in the mouse gut and brain. Alcoholism: Clinical and Experimental Research, 2021, 45, 996-1012.	1.4	10
11	Lyticase Facilitates Mycobiome Resolution Without Disrupting Microbiome Fidelity in Primates. Journal of Surgical Research, 2021, 267, 336-341.	0.8	1
12	Reserpine improves Enterobacteriaceae resistance in chicken intestine via neuro-immunometabolic signaling and MEK1/2 activation. Communications Biology, 2021, 4, 1359.	2.0	4
13	"Us vs. Them" Pair Housing: Effects on Body Weight, Open Field Behavior, and Gut Microbiota in Rats Selectively Bred on a Taste Phenotype. Physiology and Behavior, 2020, 223, 112975.	1.0	1
14	Pyruvate is required for catecholamine-stimulated growth of different strains of <i>Campylobacter jejuni</i>. PeerJ, 2020, 8, e10011.	0.9	3
15	Fluoxetine-induced alteration of murine gut microbial community structure: evidence for a microbial endocrinology-based mechanism of action responsible for fluoxetine-induced side effects. PeerJ, 2019, 7, e6199.	0.9	62
16	The Impact of Compulsive Ethanol Consumption on Gut and Brain Neurochemicals (P14-003-19). Current Developments in Nutrition, 2019, 3, nzz052.P14-003-19.	0.1	0
17	Review: Microbial endocrinology: intersection of microbiology and neurobiology matters to swine health from infection to behavior. Animal, 2019, 13, 2689-2698.	1.3	18
18	69 The ability of an artificial sweetener (SucramÂ®) to influence microbial community structure in the rumen papillae and content through the production of microbial-based neurochemicals. Journal of Animal Science, 2019, 97, 100-101.	0.2	0

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19	PSII-16 Evidence for stratification of rumen wall microbial communities revealed by 16S rRNA based amplicon sequencing. Journal of Animal Science, 2019, 97, 226-227.	0.2	1
20	Maternal and Breast Milk Influences on the Infant Gut Microbiome, Enteric Health and Growth Outcomes of Rhesus Monkeys. Journal of Pediatric Gastroenterology and Nutrition, 2019, 69, 363-369.	0.9	10
21	Altered Schaedler flora mice: A defined microbiota animal model to study the microbiota-gut-brain axis. Behavioural Brain Research, 2019, 356, 221-226.	1.2	20
22	Oral Treatments With Probiotics and Live Salmonella Vaccine Induce Unique Changes in Gut Neurochemicals and Microbiome in Chickens. Frontiers in Microbiology, 2019, 10, 3064.	1.5	16
23	Symposium review: Microbial endocrinologyâ€"Why the integration of microbes, epithelial cells, and neurochemical signals in the digestive tract matters to ruminant health. Journal of Dairy Science, 2018, 101, 5619-5628.	1.4	24
24	Interactions Between Stress and Sex in Microbial Responses Within the Microbiota-Gut-Brain Axis in a Mouse Model. Psychosomatic Medicine, 2018, 80, 361-369.	1.3	23
25	Production of the Neurotoxin Salsolinol by a Gut-Associated Bacterium and Its Modulation by Alcohol. Frontiers in Microbiology, 2018, 9, 3092.	1.5	16
26	Dopamine production in Enterococcus faecium: A microbial endocrinology-based mechanism for the selection of probiotics based on neurochemical-producing potential. PLoS ONE, 2018, 13, e0207038.	1.1	37
27	A microbial endocrinology-based simulated small intestinal medium for the evaluation of neurochemical production by gut microbiota. FEMS Microbiology Ecology, 2018, 94, .	1.3	41
28	Evidence for PMAT- and OCT-like biogenic amine transporters in a probiotic strain of Lactobacillus: Implications for interkingdom communication within the microbiota-gut-brain axis. PLoS ONE, 2018, 13, e0191037.	1.1	37
29	Low <i>Lactobacilli</i> abundance and polymicrobial diversity in the lower reproductive tract of female rhesus monkeys do not compromise their reproductive success. American Journal of Primatology, 2017, 79, e22691.	0.8	4
30	Social Influences on Prevotella and the Gut Microbiome of Young Monkeys. Psychosomatic Medicine, 2017, 79, 888-897.	1.3	47
31	Microbial endocrinology: Why the intersection of microbiology and neurobiology matters to poultry health. Poultry Science, 2017, 96, 2501-2508.	1.5	37
32	Microbial Endocrinology. , 2016, , 89-108.		0
33	Gut Microbiota and a Selectively Bred Taste Phenotype: A Novel Model of Microbiome-Behavior Relationships. Psychosomatic Medicine, 2016, 78, 610-619.	1.3	21
34	Microbial Endocrinology in the Pathogenesis of Infectious Disease. Microbiology Spectrum, 2016, 4, .	1.2	26
35	Microbial Endocrinology: An Ongoing Personal Journey. Advances in Experimental Medicine and Biology, 2016, 874, 1-24.	0.8	37
36	Social stress-enhanced severity of Citrobacter rodentium-induced colitis is CCL2-dependent and attenuated by probiotic Lactobacillus reuteri. Mucosal Immunology, 2016, 9, 515-526.	2.7	65

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37	Staphylococci, Catecholamine Inotropes and Hospital-Acquired Infections. Advances in Experimental Medicine and Biology, 2016, 874, 183-199.	0.8	5
38	Resistant Starch Alters the Microbiota-Gut Brain Axis: Implications for Dietary Modulation of Behavior. PLoS ONE, 2016, 11, e0146406.	1.1	45
39	The effect of stress on microbial growth. Animal Health Research Reviews, 2014, 15, 172-174.	1.4	36
40	Exposure to a social stressor disrupts the community structure of the colonic mucosa-associated microbiota. BMC Microbiology, 2014, 14, 189.	1.3	292
41	Microbial endocrinology. Gut Microbes, 2014, 5, 381-389.	4.3	169
42	The structures of the colonic mucosa-associated and luminal microbial communities are distinct and differentially affected by a prolonged murine stressor. Gut Microbes, 2014, 5, 748-760.	4.3	91
43	Microbial Endocrinology and the Microbiota-Gut-Brain Axis. Advances in Experimental Medicine and Biology, 2014, 817, 3-24.	0.8	152
44	Pseudomonas aeruginosa biofilms perturb wound resolution and antibiotic tolerance in diabetic mice. Medical Microbiology and Immunology, 2013, 202, 131-141.	2.6	119
45	Microbial endocrinology and nutrition: A perspective on new mechanisms by which diet can influence gut-to-brain communication. PharmaNutrition, 2013, 1, 35-39.	0.8	27
46	Microbial Endocrinology in the Microbiome-Gut-Brain Axis: How Bacterial Production and Utilization of Neurochemicals Influence Behavior. PLoS Pathogens, 2013, 9, e1003726.	2.1	306
47	Microbial Endocrinology: An Evolution-Based Shared Mechanism Determining Microbiota's Influence on Health and Disease. Else-KrÃ¶ner-Fresenius-Symposia, 2013, , 53-58.	0.1	2
48	Exposure to a social stressor alters the structure of the intestinal microbiota: Implications for stressor-induced immunomodulation. Brain, Behavior, and Immunity, 2011, 25, 397-407.	2.0	929
49	Response to â€œPathophysiology and treatment of the systemic inflammatory response syndrome from the perspective of evolutionary medicineâ€• Surgery, 2011, 149, 461-462.	1.0	0
50	Stress at the intestinal surface: catecholamines and mucosaâ€"bacteria interactions. Cell and Tissue Research, 2011, 343, 23-32.	1.5	223
51	Probiotics function mechanistically as delivery vehicles for neuroactive compounds: Microbial endocrinology in the design and use of probiotics. BioEssays, 2011, 33, 574-581.	1.2	445
52	Stress and microbial endocrinology: prospects for ruminant nutrition. Animal, 2010, 4, 1248-1257.	1.3	45
53	Stressor Exposure Disrupts Commensal Microbial Populations in the Intestines and Leads to Increased Colonization by <i>Citrobacter rodentium</i>. Infection and Immunity, 2010, 78, 1509-1519.	1.0	317
54	Elucidation of the Mechanism by Which Catecholamine Stress Hormones Liberate Iron from the Innate Immune Defense Proteins Transferrin and Lactoferrin. Journal of Bacteriology, 2010, 192, 587-594.	1.0	117

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55	Norepinephrine Augments Salmonella enterica-Induced Enteritis in a Manner Associated with Increased Net Replication but Independent of the Putative Adrenergic Sensor Kinases QseC and QseE. Infection and Immunity, 2010, 78, 372-380.	1.0	72
56	561 The Stress Response Significantly Changes Microbial Populations in the Intestines and Increases Susceptibility to Enteric Infection. Gastroenterology, 2010, 138, S-78.	0.6	0
57	The microbial organ in the gut as a driver of homeostasis and disease. Medical Hypotheses, 2010, 74, 634-638.	0.8	86
58	Microbial endocrinology as a basis for improved l-DOPA bioavailability in Parkinsonâ€™s patients treated for Helicobacter pylori. Medical Hypotheses, 2010, 74, 895-897.	0.8	41
59	Microbial Endocrinology: A Personal Journey. , 2010, , 1-16.		7
60	6-hydroxydopamine-mediated release of norepinephrine increases faecal excretion of<i>Salmonella enterica</i>serovar Typhimurium in pigs. Veterinary Research, 2010, 41, 68.	1.1	29
61	Staphylococci, Catecholamine Inotropes and Hospital-Acquired Infections. , 2010, , 151-166.		0
62	Reciprocal gutâ€“brain evolutionary symbiosis provokes and amplifies the postinjury systemic inflammatory response syndrome. Surgery, 2009, 146, 950-954.	1.0	16
63	Norepinephrine represses the expression of<i>toxA</i>and the siderophore genes in<i>Pseudomonas aeruginosa</i>. FEMS Microbiology Letters, 2009, 299, 100-109.	0.7	28
64	Memory and learning behavior in mice is temporally associated with diet-induced alterations in gut bacteria. Physiology and Behavior, 2009, 96, 557-567.	1.0	215
65	Behavior Modification of Host by Microbes. , 2009, , 121-127.		3
66	Microbial Endocrinology Comes of Age. Microbe Magazine, 2009, 4, 169-175.	0.4	14
67	Chapter 2 Microbial Endocrinology: Experimental Design Issues in the Study of Interkingdom Signalling in Infectious Disease. Advances in Applied Microbiology, 2008, 64, 75-105.	1.3	49
68	Microbial endocrinology: how stress influences susceptibility to infection. Trends in Microbiology, 2008, 16, 55-64.	3.5	252
69	Campylobacter jejuni infection increases anxiety-like behavior in the holeboard: Possible anatomical substrates for viscerosensory modulation of exploratory behavior. Brain, Behavior, and Immunity, 2008, 22, 354-366.	2.0	233
70	Catecholamine Inotrope Resuscitation of Antibioticâ€Damaged Staphylococci and Its Blockade by Specific Receptor Antagonists. Journal of Infectious Diseases, 2008, 197, 1044-1052.	1.9	33
71	Infection-induced viscerosensory signals from the gut enhance anxiety: Implications for psychoneuroimmunology. Brain, Behavior, and Immunity, 2007, 21, 721-726.	2.0	118
72	Specificity of catecholamine-induced growth in Escherichia coli O157:H7, Salmonella enterica and Yersinia enterocolitica. FEMS Microbiology Letters, 2007, 269, 221-228.	0.7	103

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73	Blockade of catecholamine-induced growth by adrenergic and dopaminergic receptor antagonists in Escherichia coli O157:H7, Salmonella enterica and Yersinia enterocolitica. BMC Microbiology, 2007, 7, 8.	1.3	96
74	Influence of dietary catechols on the growth of enteropathogenic bacteria. International Journal of Food Microbiology, 2007, 119, 159-169.	2.1	44
75	Autonomic neurotransmitters modulate immunoglobulin A secretion in porcine colonic mucosa. Journal of Neuroimmunology, 2007, 185, 20-28.	1.1	39
76	Induction of anxiety-like behavior in mice during the initial stages of infection with the agent of murine colonic hyperplasia Citrobacter rodentium. Physiology and Behavior, 2006, 89, 350-357.	1.0	281
77	Induction of Gram-negative bacterial growth by neurochemical containing banana (Musa x) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.7	20
78	Mucosally-directed adrenergic nerves and sympathomimetic drugs enhance non-intimate adherence of Escherichia coli O157:H7 to porcine cecum and colon. European Journal of Pharmacology, 2006, 539, 116-124.	1.7	50
79	Enhancement of In Vitro Growth of Pathogenic Bacteria by Norepinephrine: Importance of Inoculum Density and Role of Transferrin. Applied and Environmental Microbiology, 2006, 72, 5097-5099.	1.4	84
80	Recommended housing conditions and test procedures can interact to obscure a significant experimental effect. Behavior Research Methods, 2005, 37, 651-656.	2.3	11
81	Activation in vagal afferents and central autonomic pathways: Early responses to intestinal infection with Campylobacter jejuni. Brain, Behavior, and Immunity, 2005, 19, 334-344.	2.0	336
82	The Biogenic Amine Tyramine Modulates the Adherence of Escherichia coli O157:H7 to Intestinal Mucosa. Journal of Food Protection, 2004, 67, 878-883.	0.8	38
83	Assessment of a New Selective Chromogenic Bacillus cereus Group Plating Medium and Use of Enterobacterial Autoinducer of Growth for Cultural Identification of Bacillus Species. Journal of Clinical Microbiology, 2004, 42, 3795-3798.	1.8	14
84	The Neuroendocrine Stress Hormone Norepinephrine Augments Escherichia coli O157:H7-Induced Enteritis and Adherence in a Bovine Ligated Ileal Loop Model of Infection. Infection and Immunity, 2004, 72, 5446-5451.	1.0	102
85	Adrenergic modulation ofEscherichia coliO157:H7 adherence to the colonic mucosa. American Journal of Physiology - Renal Physiology, 2004, 287, G1238-G1246.	1.6	73
86	Brain response to cecal infection with Campylobacter jejuni: analysis with Fos immunohistochemistry. Brain, Behavior, and Immunity, 2004, 18, 238-245.	2.0	120
87	Microbial endocrinology and infectious disease in the 21st century. Trends in Microbiology, 2004, 12, 14-20.	3.5	209
88	Neuromodulation of enteropathogen internalization in Peyer's patches from porcine jejunum. Journal of Neuroimmunology, 2003, 141, 74-82.	1.1	89
89	Involvement of enterobactin in norepinephrine-mediated iron supply from transferrin to enterohaemorrhagicEscherichia coli. FEMS Microbiology Letters, 2003, 222, 39-43.	0.7	101
90	Stimulation of Staphylococcus epidermidis growth and biofilm formation by catecholamine inotropes. Lancet, The, 2003, 361, 130-135.	6.3	179

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91	Catecholamines Modulate Escherichia coli O157:H7 Adherence to Murine Cecal Mucosa. Shock, 2003, 20, 183-188.	1.0	99
92	Resuscitation of Salmonella enterica Serovar Typhimurium and Enterohemorrhagic Escherichia coli from the Viable but Nonculturable State by Heat-Stable Enterobacterial Autoinducer. Applied and Environmental Microbiology, 2002, 68, 4788-4794.	1.4	127
93	Increased IL-10 Production and HLA-DR Suppression in the Lungs of Injured Patients Precede the Development of Nosocomial Pneumonia. Shock, 2002, 17, 443-450.	1.0	81
94	Epinephrine as a Mediator of Pulmonary Neutrophil Sequestration. Shock, 2002, 18, 46-50.	1.0	19
95	Growth Stimulation of Intestinal Commensal Escherichia coli by Catecholamines: A Possible Contributory Factor in Trauma-Induced Sepsis. Shock, 2002, 18, 465-470.	1.0	188
96	Systemic and pulmonary effector cell function after injury*. Critical Care Medicine, 2002, 30, 1322-1326.	0.4	45
97	Cytokines and the pathogenesis of nosocomial pneumonia. Surgery, 2001, 130, 602-611.	1.0	29
98	Catecholamine inotropes as growth factors forStaphylococcus epidermidisand other coagulase-negative staphylococci. FEMS Microbiology Letters, 2001, 194, 163-169.	0.7	76
99	The Mammalian Neuroendocrine Hormone Norepinephrine Supplies Iron for Bacterial Growth in the Presence of Transferrin or Lactoferrin. Journal of Bacteriology, 2000, 182, 6091-6098.	1.0	183
100	Stimulation of bacterial growth by heat-stable, norepinephrine-induced autoinducers. FEMS Microbiology Letters, 1999, 172, 53-60.	0.7	160
101	Effects of Social Conflict on Immune Responses and E. coli Growth Within Closed Chambers in Mice. Physiology and Behavior, 1999, 67, 133-140.	1.0	30
102	In Vivo Adaptation of Attenuated Salmonella typhimurium Results in Increased Growth Upon Exposure to Norepinephrine. Physiology and Behavior, 1999, 67, 359-364.	1.0	28
103	Stimulation of bacterial growth by heat-stable, norepinephrine-induced autoinducers. FEMS Microbiology Letters, 1999, 172, 53-60.	0.7	5
104	Anxiogenic effect of subclinical bacterial infection in mice in the absence of overt immune activation. Physiology and Behavior, 1998, 65, 63-68.	1.0	181
105	SOCIAL CONFLICT STRESS, IMMUNE RESPONSES, AND RESISTANCE TO INFECTION. Shock, 1997, 7, 104.	1.0	0
106	Norepinephrine-Induced Expression of the K99 Pilus Adhesin of EnterotoxigenicEscherichia coli. Biochemical and Biophysical Research Communications, 1997, 232, 682-686.	1.0	100
107	Neuroendocrineâ€"Bacterial Interactions in a Neurotoxin-Induced Model of Trauma. Journal of Surgical Research, 1997, 70, 195-201.	0.8	141
108	Norepinephrine-Induced Growth and Alteration of Molecular Fingerprints in Escherichia coli O157:H7. Advances in Experimental Medicine and Biology, 1997, 412, 265-267.	0.8	2

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109	Norepinephrine Induced Growth and Expression of Virulence Associated Factors in Enterotoxigenic and Enterohemorrhagic Strains of Escherichia coli. Advances in Experimental Medicine and Biology, 1997, 412, 331-339.	0.8	66
110	Induction of Gram-negative bacterial growth by neurochemical containing banana (Musa x) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Tc	0.7	3
111	Production of Shiga-like toxins by Escherichia coli O157:H7 can be influenced by the neuroendocrine hormone norepinephrine. Translational Research, 1996, 128, 392-398.	2.4	130
112	Production of an autoinducer of growth by norepinephrine culturedEscherichia coliO157:H7. FEMS Microbiology Letters, 1996, 139, 155-159.	0.7	99
113	Alpha and Beta Adrenergic Receptor Involvement in Catecholamine-Induced Growth of Gram-Negative Bacteria. Biochemical and Biophysical Research Communications, 1993, 190, 447-452.	1.0	85
114	Effects of in vitro adrenocorticotrophic hormone, cortisol and human recombinant interleukin-2 on porcine neutrophil migration and luminol-dependent chemiluminescence. Veterinary Immunology and Immunopathology, 1993, 39, 327-337.	0.5	47
115	The role of microbial endocrinology in infectious disease. Journal of Endocrinology, 1993, 137, 343-345.	1.2	135
116	Catecholamine induced growth of gram negative bacteria. Life Sciences, 1992, 50, 203-212.	2.0	307
117	The role of catecholamines in Gram-negative sepsis. Medical Hypotheses, 1992, 37, 255-258.	0.8	49
118	Effects of In Vitro Electrical Stimulation on Enhancement and Suppression of Malignant Lymphoma Cell Proliferation. Journal of the National Cancer Institute, 1991, 83, 116-119.	3.0	19
119	Strain-specific enhancement of splenic T cell mitogenesis and macrophage phagocytosis following peripheral axotomy. Journal of Neuroimmunology, 1991, 31, 1-8.	1.1	51
120	Examination of the neuroendocrine basis for the social conflict-induced enhancement of immunity in mice. Physiology and Behavior, 1990, 48, 685-691.	1.0	31
121	Innate and adaptive immune responses in a social conflict paradigm. Clinical Immunology and Immunopathology, 1990, 57, 137-147.	2.1	69
122	The influence of mouse strain and housing on the immune response. Journal of Neuroimmunology, 1987, 17, 11-16.	1.1	37
123	Alteration of Immune Competency by Number of Mice Housed per Cage. Annals of the New York Academy of Sciences, 1987, 496, 492-500.	1.8	39
124	Clinical and Laboratory Evidence of Autoimmunity in Acute Schizophrenia. Annals of the New York Academy of Sciences, 1987, 496, 676-685.	1.8	132
125	Shock-induced modulation of lymphocyte reactivity: Suppression, habituation, and recovery. Life Sciences, 1987, 41, 1805-1814.	2.0	87
126	Generation and measurement of interleukin-1, interleukin-2, and mitogen levels in small volumes of whole blood. Journal of Clinical Laboratory Analysis, 1987, 1, 83-88.	0.9	12

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127	Effect of in vivo administration of the carcinogen benzo(a)pyrene on interleukin-2 and interleukin-3 production. International Journal of Immunopharmacology, 1987, 9, 307-312.	1.1	30
128	Regulation of interleukin-1 production in murine macrophages and human monocytes by a normal physiological constituent. Life Sciences, 1986, 38, 1163-1170.	2.0	6
129	Modulation of interleukin-1 production by macrophages following benzo(a)pyrene exposure. International Journal of Immunopharmacology, 1986, 8, 377-381.	1.1	43
130	Differential immunotoxic effects of the environmental chemical benzo[a]pyrene in young and aged mice. Mechanisms of Ageing and Development, 1985, 30, 333-341.	2.2	16
131	Microbial Endocrinology in the Pathogenesis of Infectious Disease. , 0, , 137-168.		0
132	Exposure to a Virtual Environment Induces Biological and Microbiota Changes in Onset-of-Lay Hens. Frontiers in Virtual Reality, 0, 3, .	2.5	0