

Glynis L Kolling

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,455
citations

257450

24
h-index

214800

47
g-index

56
all docs

56
docs citations

56
times ranked

3664
citing authors

#	ARTICLE	IF	CITATIONS
1	Vesicle-Mediated Transfer of Virulence Genes from <i>Escherichia coli</i> O157:H7 to Other Enteric Bacteria. <i>Applied and Environmental Microbiology</i> , 2000, 66, 4414-4420.	3.1	298
2	Export of Virulence Genes and Shiga Toxin by Membrane Vesicles of <i>Escherichia coli</i> O157:H7. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1843-1848.	3.1	276
3	Reconciled rat and human metabolic networks for comparative toxicogenomics and biomarker predictions. <i>Nature Communications</i> , 2017, 8, 14250.	12.8	151
4	Shiga Toxin 2 Affects the Central Nervous System through Receptor Globotriaosylceramide Localized to Neurons. <i>Journal of Infectious Diseases</i> , 2008, 198, 1398-1406.	4.0	103
5	Metabolic network modeling of microbial communities. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2015, 7, 317-334.	6.6	95
6	Persistent <i>G. lamblia</i> impairs growth in a murine malnutrition model. <i>Journal of Clinical Investigation</i> , 2013, 123, 2672-2684.	8.2	90
7	Inferring Metabolic Mechanisms of Interaction within a Defined Gut Microbiota. <i>Cell Systems</i> , 2018, 7, 245-257.e7.	6.2	89
8	Protein- and zinc-deficient diets modulate the murine microbiome and metabolic phenotype. <i>American Journal of Clinical Nutrition</i> , 2016, 104, 1253-1262.	4.7	83
9	Shiga Toxin 2 Targets the Murine Renal Collecting Duct Epithelium. <i>Infection and Immunity</i> , 2009, 77, 959-969.	2.2	78
10	Early-life enteric infections: relation between chronic systemic inflammation and poor cognition in children. <i>Nutrition Reviews</i> , 2016, 74, 374-386.	5.8	73
11	Cross-modulation of pathogen-specific pathways enhances malnutrition during enteric co-infection with <i>Giardia lamblia</i> and enteroaggregative <i>Escherichia coli</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006471.	4.7	68
12	Zinc deficiency alters host response and pathogen virulence in a mouse model of enteroaggregative <i>Escherichia coli</i> -induced diarrhea. <i>Gut Microbes</i> , 2014, 5, 618-627.	9.8	63
13	Systems-level metabolism of the altered Schaedler flora, a complete gut microbiota. <i>ISME Journal</i> , 2017, 11, 426-438.	9.8	60
14	Enteric pathogens through life stages. <i>Frontiers in Cellular and Infection Microbiology</i> , 2012, 2, 114.	3.9	57
15	Vancomycin Treatment's Association with Delayed Intestinal Tissue Injury, Clostridial Overgrowth, and Recurrence of <i>Clostridium difficile</i> Infection in Mice. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 689-696.	3.2	55
16	A novel mouse model of <i>Campylobacter jejuni</i> enteropathy and diarrhea. <i>PLoS Pathogens</i> , 2018, 14, e1007083.	4.7	55
17	Amixicile, a Novel Inhibitor of Pyruvate:Ferredoxin Oxidoreductase, Shows Efficacy against <i>Clostridium difficile</i> in a Mouse Infection Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 4103-4111.	3.2	51
18	Role of Leptin-Mediated Colonic Inflammation in Defense against <i>Clostridium difficile</i> Colitis. <i>Infection and Immunity</i> , 2014, 82, 341-349.	2.2	46

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19	Lactic acid production by <i>Streptococcus thermophilus</i> alters <i>Clostridium difficile</i> infection and in vitro Toxin A production. <i>Gut Microbes</i> , 2012, 3, 523-529.	9.8	45
20	Protein Malnutrition Impairs Intestinal Epithelial Cell Turnover, a Potential Mechanism of Increased Cryptosporidiosis in a Murine Model. <i>Infection and Immunity</i> , 2016, 84, 3542-3549.	2.2	44
21	Examination of Recovery In Vitro and In Vivo of Nonculturable <i>Escherichia coli</i> O157:H7. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3928-3933.	3.1	42
22	The micronutrient zinc inhibits EAEC strain 042 adherence, biofilm formation, virulence gene expression, and epithelial cytokine responses benefiting the infected host. <i>Virulence</i> , 2013, 4, 624-633.	4.4	37
23	Vancomycin Treatment Alters Humoral Immunity and Intestinal Microbiota in an Aged Mouse Model of <i>Clostridium difficile</i> Infection. <i>Journal of Infectious Diseases</i> , 2016, 214, 130-139.	4.0	33
24	In Vivo Physiological and Transcriptional Profiling Reveals Host Responses to <i>Clostridium difficile</i> Toxin A and Toxin B. <i>Infection and Immunity</i> , 2013, 81, 3814-3824.	2.2	31
25	Defined Nutrient Diets Alter Susceptibility to <i>Clostridium difficile</i> Associated Disease in a Murine Model. <i>PLoS ONE</i> , 2015, 10, e0131829.	2.5	31
26	Shiga toxin 2-induced intestinal pathology in infant rabbits is A-subunit dependent and responsive to the tyrosine kinase and potential ZAK inhibitor imatinib. <i>Frontiers in Cellular and Infection Microbiology</i> , 2012, 2, 135.	3.9	28
27	<i>Cryptosporidium</i> Priming Is More Effective than Vaccine for Protection against Cryptosporidiosis in a Murine Protein Malnutrition Model. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004820.	3.0	26
28	Innate Immune Response and Outcome of <i>Clostridium difficile</i> Infection Are Dependent on Fecal Bacterial Composition in the Aged Host. <i>Journal of Infectious Diseases</i> , 2018, 217, 188-197.	4.0	25
29	p38 Mitogen-Activated Protein Kinase Mediates Lipopolysaccharide and Tumor Necrosis Factor Alpha Induction of Shiga Toxin 2 Sensitivity in Human Umbilical Vein Endothelial Cells. <i>Infection and Immunity</i> , 2008, 76, 1115-1121.	2.2	22
30	A simplified metabolic network reconstruction to promote understanding and development of flux balance analysis tools. <i>Computers in Biology and Medicine</i> , 2019, 105, 64-71.	7.0	21
31	Immunohistologic techniques for detecting the glycolipid Gb3 in the mouse kidney and nervous system. <i>Histochemistry and Cell Biology</i> , 2008, 130, 157-164.	1.7	20
32	Minimum bactericidal concentration of ciprofloxacin to <i>Pseudomonas aeruginosa</i> determined rapidly based on pyocyanin secretion. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127936.	7.8	20
33	Novel co-culture plate enables growth dynamic-based assessment of contact-independent microbial interactions. <i>PLoS ONE</i> , 2017, 12, e0182163.	2.5	19
34	Evaluating the efficacy of an algae-based treatment to mitigate elicitation of antibiotic resistance. <i>Chemosphere</i> , 2019, 237, 124421.	8.2	18
35	Rapid in Vitro Assessment of <i>Clostridioides difficile</i> Inhibition by Probiotics Using Dielectrophoresis to Quantify Cell Structure Alterations. <i>ACS Infectious Diseases</i> , 2020, 6, 1000-1007.	3.8	18
36	Systems analysis of the transcriptional response of human ileocecal epithelial cells to <i>Clostridium difficile</i> toxins and effects on cell cycle control. <i>BMC Systems Biology</i> , 2012, 6, 2.	3.0	17

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37	Investigation of Encephalopathy Caused by Shiga Toxin 2c-Producing <i>Escherichia coli</i> Infection in Mice. <i>PLoS ONE</i> , 2013, 8, e58959.	2.5	16
38	Increased Urinary Trimethylamine N-Oxide Following <i>Cryptosporidium</i> Infection and Protein Malnutrition Independent of Microbiome Effects. <i>Journal of Infectious Diseases</i> , 2017, 216, 64-71.	4.0	16
39	Genome-Scale Characterization of Toxicity-Induced Metabolic Alterations in Primary Hepatocytes. <i>Toxicological Sciences</i> , 2019, 172, 279-291.	3.1	15
40	Identifying functional metabolic shifts in heart failure with the integration of omics data and a heart-specific, genome-scale model. <i>Cell Reports</i> , 2021, 34, 108836.	6.4	15
41	Abundant production of exopolysaccharide by EAEC strains enhances the formation of bacterial biofilms in contaminated sprouts. <i>Gut Microbes</i> , 2018, 9, 264-278.	9.8	13
42	Treatment of <i>Clostridium difficile</i> infection using SQ641, a capuramycin analogue, increases post-treatment survival and improves clinical measures of disease in a murine model. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 1300-1306.	3.0	11
43	Outcomes of a Multidisciplinary Clinic in Evaluating Recurrent <i>Clostridioides difficile</i> Infection Patients for Fecal Microbiota Transplant: A Retrospective Cohort Analysis. <i>Journal of Clinical Medicine</i> , 2019, 8, 1036.	2.4	10
44	Electrofabricated biomaterial-based capacitor on nanoporous gold for enhanced redox amplification. <i>Electrochimica Acta</i> , 2019, 318, 828-836.	5.2	10
45	Predicting changes in renal metabolism after compound exposure with a genome-scale metabolic model. <i>Toxicology and Applied Pharmacology</i> , 2021, 412, 115390.	2.8	10
46	Influence of enteric bacteria conditioned media on recovery of <i>Escherichia coli</i> O157:H7 exposed to starvation and sodium hypochlorite. <i>Journal of Applied Microbiology</i> , 2007, 103, 1435-1441.	3.1	9
47	Amixicile Reduces Severity of <i>Cryptosporidiosis</i> but Does Not Have In Vitro Activity against <i>Cryptosporidium</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	9
48	Untargeted Metabolomics Reveals Species-Specific Metabolite Production and Shared Nutrient Consumption by <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> . <i>MSystems</i> , 2021, 6, e0048021.	3.8	9
49	Proposal for effective treatment of Shiga toxin-producing <i>Escherichia coli</i> infection in mice. <i>Microbial Pathogenesis</i> , 2013, 65, 57-62.	2.9	6
50	Natural killer T (NKT) cells accelerate Shiga toxin type 2 (Stx2) pathology in mice. <i>Frontiers in Microbiology</i> , 2015, 6, 262.	3.5	5
51	Algae-mediated treatment offers apparent removal of a model antibiotic resistance gene. <i>Algal Research</i> , 2021, 60, 102540.	4.6	4