Susan Lynch

List of Publications by Citations

142 papers	16,034 citations	54 h-index	126 g-index
153 ext. papers	20,047 ext. citations	10.1 avg, IF	7.02 L-index

#	Paper	IF	Citations
142	Induction of intestinal Th17 cells by segmented filamentous bacteria. *Cell*, **2009**, 139, 485-98	56.2	3110
141	The Human Intestinal Microbiome in Health and Disease. *New England Journal of Medicine*, **2016**, 375, 2369-2379	59.2	1429
140	Current understanding of the human microbiome. *Nature Medicine*, **2018**, 24, 392-400	50.5	823
139	Neonatal gut microbiota associates with childhood multisensitized atopy and T cell differentiation. *Nature Medicine*, **2016**, 22, 1187-1191	50.5	548
138	Comparison of the respiratory microbiome in healthy nonsmokers and smokers. *American Journal of Respiratory and Critical Care Medicine*, **2013**, 187, 1067-75	10.2	501
137	Airway microbiota and bronchial hyperresponsiveness in patients with suboptimally controlled asthma. *Journal of Allergy and Clinical Immunology*, **2011**, 127, 372-381.e1-3	11.5	486
136	Gastrointestinal microbiome signatures of pediatric patients with irritable bowel syndrome. *Gastroenterology*, **2011**, 141, 1782-91	13.3	464
135	Dysbiosis of the gut microbiota is associated with HIV disease progression and tryptophan catabolism. *Science Translational Medicine*, **2013**, 5, 193ra91	17.5	427
134	Airway microbiota and pathogen abundance in age-stratified cystic fibrosis patients. *PLoS ONE*, **2010**, 5, e11044	3.7	331
133	House dust exposure mediates gut microbiome Lactobacillus enrichment and airway immune defense against allergens and virus infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 805-10	11.5	293
132	Sinus microbiome diversity depletion and Corynebacterium tuberculostearicum enrichment mediates rhinosinusitis. *Science Translational Medicine*, **2012**, 4, 151ra124	17.5	276
131	The gut microbiome: Relationships with disease and opportunities for therapy. *Journal of Experimental Medicine*, **2019**, 216, 20-40	16.6	272
130	Role of the gut microbiota in defining human health. *Expert Review of Anti-Infective Therapy*, **2010**, 8, 435-54	5.5	265
129	Effects of early-life exposure to allergens and bacteria on recurrent wheeze and atopy in urban children. *Journal of Allergy and Clinical Immunology*, **2014**, 134, 593-601.e12	11.5	263
128	The airway microbiome in patients with severe asthma: Associations with disease features and severity. *Journal of Allergy and Clinical Immunology*, **2015**, 136, 874-84	11.5	260
127	Microbiota in allergy and asthma and the emerging relationship with the gut microbiome. *Cell Host and Microbe*, **2015**, 17, 592-602	23.4	242
126	Comparative analyses of the bacterial microbiota of the human nostril and oropharynx. *MBio*, **2010**, 1,	7.8	213

125	Airway microbiome dynamics in exacerbations of chronic obstructive pulmonary disease. *Journal of Clinical Microbiology*, **2014**, 52, 2813-23	9.7	206
124	Role of the microbiota in inflammatory bowel diseases. *Inflammatory Bowel Diseases*, **2012**, 18, 968-84	4.5	198
123	Relationship between cystic fibrosis respiratory tract bacterial communities and age, genotype, antibiotics and Pseudomonas aeruginosa. *Environmental Microbiology*, **2010**, 12, 1293-303	5.2	183
122	Man\'s best friend? The effect of pet ownership on house dust microbial communities. *Journal of Allergy and Clinical Immunology*, **2010**, 126, 410-2, 412.e1-3	11.5	178
121	A persistent and diverse airway microbiota present during chronic obstructive pulmonary disease exacerbations. *OMICS A Journal of Integrative Biology*, **2010**, 14, 9-59	3.8	178
120	Use of 16S rRNA gene for identification of a broad range of clinically relevant bacterial pathogens. *PLoS ONE*, **2015**, 10, e0117617	3.7	175
119	Gut microbiota in early pediatric multiple sclerosis: a case-control study. *European Journal of Neurology*, **2016**, 23, 1308-1321	6	172
118	Significance of the microbiome in obstructive lung disease. *Thorax*, **2012**, 67, 456-63	7.3	161
117	Features of the bronchial bacterial microbiome associated with atopy, asthma, and responsiveness to inhaled corticosteroid treatment. *Journal of Allergy and Clinical Immunology*, **2017**, 140, 63-75	11.5	153
116	Loss of bacterial diversity during antibiotic treatment of intubated patients colonized with Pseudomonas aeruginosa. *Journal of Clinical Microbiology*, **2007**, 45, 1954-62	9.7	143
115	Widespread colonization of the lung by Tropheryma whipplei in HIV infection. *American Journal of Respiratory and Critical Care Medicine*, **2013**, 187, 1110-7	10.2	140
114	Persistent infection with Pseudomonas aeruginosa in ventilator-associated pneumonia. *American Journal of Respiratory and Critical Care Medicine*, **2008**, 178, 513-9	10.2	120
113	Early-life home environment and risk of asthma among inner-city children. *Journal of Allergy and Clinical Immunology*, **2018**, 141, 1468-1475	11.5	115
112	Alteration of the cutaneous microbiome in psoriasis and potential role in Th17 polarization. *Microbiome*, **2018**, 6, 154	16.6	110
111	ChrR, a soluble quinone reductase of Pseudomonas putida that defends against H2O2. *Journal of Biological Chemistry*, **2005**, 280, 22590-5	5.4	102
110	Delayed gut microbiota development in high-risk for asthma infants is temporarily modifiable by Lactobacillus supplementation. *Nature Communications*, **2018**, 9, 707	17.4	100
109	Viable bacterial colonization is highly limited in the human intestine in utero. *Nature Medicine*, **2020**, 26, 599-607	50.5	98
108	Multicenter Comparison of Lung and Oral Microbiomes of HIV-infected and HIV-uninfected Individuals. *American Journal of Respiratory and Critical Care Medicine*, **2015**, 192, 1335-44	10.2	97

107	Lactobacillus casei abundance is associated with profound shifts in the infant gut microbiome. *PLoS ONE*, **2010**, 5, e8745	3.7	93
106	Compositionally and functionally distinct sinus microbiota in chronic rhinosinusitis patients have immunological and clinically divergent consequences. *Microbiome*, **2017**, 5, 53	16.6	88
105	Breast-fed and bottle-fed infant rhesus macaques develop distinct gut microbiotas and immune systems. *Science Translational Medicine*, **2014**, 6, 252ra120	17.5	87
104	Elevated faecal 12,13-diHOME concentration in neonates at high risk for asthma is produced by gut bacteria and impedes immune tolerance. *Nature Microbiology*, **2019**, 4, 1851-1861	26.6	83
103	Joint effects of pregnancy, sociocultural, and environmental factors on early life gut microbiome structure and diversity. *Scientific Reports*, **2016**, 6, 31775	4.9	78
102	The cystic fibrosis airway microbiome. *Cold Spring Harbor Perspectives in Medicine*, **2013**, 3, a009738	5.4	78
101	The emerging relationship between the airway microbiota and chronic respiratory disease: clinical implications. *Expert Review of Respiratory Medicine*, **2011**, 5, 809-21	3.8	78
100	Cystic fibrosis transmembrane conductance regulator knockout mice exhibit aberrant gastrointestinal microbiota. *Gut Microbes*, **2013**, 4, 41-7	8.8	76
99	Early Probiotic Supplementation for Eczema and Asthma Prevention: A Randomized Controlled Trial. *Pediatrics*, **2017**, 140,	7.4	73
98	Associations between the gut microbiota and host immune markers in pediatric multiple sclerosis and controls. *BMC Neurology*, **2016**, 16, 182	3.1	69
97	Lung Microbiota Is Related to Smoking Status and to Development of Acute Respiratory Distress Syndrome in Critically Ill Trauma Patients. *American Journal of Respiratory and Critical Care Medicine* , **2018**, 197, 621-631	10.2	65
96	Distinct nasal airway bacterial microbiotas differentially relate to exacerbation in pediatric patients with asthma. *Journal of Allergy and Clinical Immunology*, **2019**, 144, 1187-1197	11.5	61
95	Bacterial biogeography of adult airways in atopic asthma. *Microbiome*, **2018**, 6, 104	16.6	57
94	The microbiome and development of allergic disease. *Current Opinion in Allergy and Clinical Immunology*, **2016**, 16, 165-71	3.3	57
93	Disease Severity and Immune Activity Relate to Distinct Interkingdom Gut Microbiome States in Ethnically Distinct Ulcerative Colitis Patients. *MBio*, **2016**, 7,	7.8	56
92	The potential for probiotic manipulation of the gastrointestinal microbiome. *Current Opinion in Biotechnology*, **2012**, 23, 192-201	11.4	56
91	Oral and airway microbiota in HIV-infected pneumonia patients. *Journal of Clinical Microbiology*, **2012**, 50, 2995-3002	9.7	56
90	Increased plasminogen activator inhibitor-1 concentrations in bronchoalveolar lavage fluids are associated with increased mortality in a cohort of patients with Pseudomonas aeruginosa. *Anesthesiology*, **2007**, 106, 252-61	4.3	56

89	Dynamics of Bacterial Colonization With Streptococcus pneumoniae, Haemophilus influenzae, and Moraxella catarrhalis During Symptomatic and Asymptomatic Viral Upper Respiratory Tract Infection. *Clinical Infectious Diseases*, **2018**, 66, 1045-1053	11.6	55
88	Community ecology as a framework for human microbiome research. *Nature Medicine*, **2019**, 25, 884-889	30.5	54
87	Gut-Resident Lactobacillus Abundance Associates with IDO1 Inhibition and Th17 Dynamics in SIV-Infected Macaques. *Cell Reports*, **2015**, 13, 1589-97	10.6	54
86	Effect of prenatal indoor pet exposure on the trajectory of total IgE levels in early childhood. *Journal of Allergy and Clinical Immunology*, **2011**, 128, 880-885.e4	11.5	54
85	Enteric Virome and Bacterial Microbiota in Children With Ulcerative Colitis and Crohn Disease. *Journal of Pediatric Gastroenterology and Nutrition*, **2019**, 68, 30-36	2.8	53
84	Nasopharyngeal microbiota composition of children is related to the frequency of upper respiratory infection and acute sinusitis. *Microbiome*, **2016**, 4, 34	16.6	51
83	Increased mortality of ventilated patients with endotracheal Pseudomonas aeruginosa without clinical signs of infection. *Critical Care Medicine*, **2008**, 36, 2495-503	1.4	51
82	Presence or absence of lipopolysaccharide O antigens affects type III secretion by Pseudomonas aeruginosa. *Journal of Bacteriology*, **2007**, 189, 2203-9	3.5	49
81	Lactobacillus johnsonii supplementation attenuates respiratory viral infection via metabolic reprogramming and immune cell modulation. *Mucosal Immunology*, **2017**, 10, 1569-1580	9.2	48
80	Immune Response and Mortality Risk Relate to Distinct Lung Microbiomes in Patients with HIV and Pneumonia. *American Journal of Respiratory and Critical Care Medicine*, **2017**, 195, 104-114	10.2	47
79	Characterizing the gut microbiome in trauma: significant changes in microbial diversity occur early after severe injury. *Trauma Surgery and Acute Care Open*, **2017**, 2, e000108	2.4	47
78	Pseudomonas aeruginosa biofilm-associated homoserine lactone C12 rapidly activates apoptosis in airway epithelia. *Cellular Microbiology*, **2012**, 14, 698-709	3.9	46
77	The lung microbiome of Ugandan HIV-infected pneumonia patients is compositionally and functionally distinct from that of San Franciscan patients. *PLoS ONE*, **2014**, 9, e95726	3.7	46
76	Gut dysbiosis in cystic fibrosis. *Journal of Cystic Fibrosis*, **2012**, 11, 454-5	4.1	44
75	Microbial manipulation of immune function for asthma prevention: inferences from clinical trials. *Proceedings of the American Thoracic Society*, **2007**, 4, 277-82		44
74	New enzyme for reductive cancer chemotherapy, YieF, and its improvement by directed evolution. *Molecular Cancer Therapeutics*, **2006**, 5, 97-103	6.1	43
73	PcrV antibody-antibiotic combination improves survival in Pseudomonas aeruginosa-infected mice. *European Journal of Clinical Microbiology and Infectious Diseases*, **2012**, 31, 1837-45	5.3	41
72	The oral microbiome: Role of key organisms and complex networks in oral health and disease. *Periodontology 2000*, **2021**, 87, 107-131	12.9	41

71	Longitudinal Phenotypes of Respiratory Health in a High-Risk Urban Birth Cohort. *American Journal of Respiratory and Critical Care Medicine*, **2019**, 199, 71-82	10.2	40
70	Viruses and microbiome alterations. *Annals of the American Thoracic Society*, **2014**, 11 Suppl 1, S57-60	4.7	39
69	Limited engraftment of donor microbiome via one-time fecal microbial transplantation in treated HIV-infected individuals. *Gut Microbes*, **2017**, 8, 440-450	8.8	38
68	Influence and effect of the human microbiome in allergy and asthma. *Current Opinion in Rheumatology*, **2015**, 27, 373-80	5.3	38
67	Amelioration of DSS-induced murine colitis by VSL#3 supplementation is primarily associated with changes in ileal microbiota composition. *Gut Microbes*, **2014**, 5, 494-503	8.8	38
66	Gut Microbiota and Allergic Disease. New Insights. *Annals of the American Thoracic Society*, **2016**, 13 Suppl 1, S51-4	4.7	37
65	Use of bronchoalveolar lavage to assess the respiratory microbiome: signal in the noise. *Lancet Respiratory Medicine,the*, **2013**, 1, 354-6	35.1	33
64	Bacteroides are associated with GALT iNKT cell function and reduction of microbial translocation in HIV-1 infection. *Mucosal Immunology*, **2017**, 10, 69-78	9.2	32
63	Novel strategies to combat bacterial virulence. *Current Opinion in Critical Care*, **2008**, 14, 593-9	3.5	32
62	Airway Microbiota and the Implications of Dysbiosis in Asthma. *Current Allergy and Asthma Reports*, **2016**, 16, 52	5.6	32
61	Breast Milk Transforming Growth Factor s Associated With Neonatal Gut Microbial Composition. *Journal of Pediatric Gastroenterology and Nutrition*, **2017**, 65, e60-e67	2.8	31
60	Fecal microbiota transplant for Crohn disease: A study evaluating safety, efficacy, and microbiome profile. *United European Gastroenterology Journal*, **2019**, 7, 807-814	5.3	31
59	Dog introduction alters the home dust microbiota. *Indoor Air*, **2018**, 28, 539-547	5.4	30
58	Prenatal antimicrobial use and early-childhood body mass index. *International Journal of Obesity*, **2018**, 42, 1-7	5.5	30
57	Novel microbiome-based therapeutics for chronic rhinosinusitis. *Current Allergy and Asthma Reports* , **2015**, 15, 504	5.6	29
56	Differences in the fecal microbiota of neonates born at home or in the hospital. *Scientific Reports*, **2018**, 8, 15660	4.9	29
55	Fecal Microbiota Transplantation in Pouchitis: Clinical, Endoscopic, Histologic, and Microbiota Results from a Pilot Study. *Digestive Diseases and Sciences*, **2020**, 65, 1099-1106	4	28
54	Maternal group B Streptococcus and the infant gut microbiota. *Journal of Developmental Origins of Health and Disease*, **2016**, 7, 45-53	2.4	27

53	Clinical Features, Virus Identification, and Sinusitis as a Complication of Upper Respiratory Tract Illness in Children Ages 4-7 Years. *Journal of Pediatrics*, **2016**, 171, 133-9.e1	3.6	27
52	Secretion of Pseudomonas aeruginosa type III cytotoxins is dependent on pseudomonas quinolone signal concentration. *Microbial Pathogenesis*, **2010**, 49, 196-203	3.8	26
51	Polymorphisms in the Pseudomonas aeruginosa type III secretion protein, PcrV - implications for anti-PcrV immunotherapy. *Microbial Pathogenesis*, **2010**, 48, 197-204	3.8	25
50	Probiotic strategies for treatment of respiratory diseases. *Trends in Microbiology*, **2013**, 21, 485-92	12.4	24
49	The Lung Microbiome and Airway Disease. *Annals of the American Thoracic Society*, **2016**, 13 Suppl 2, S462-S465	4.7	23
48	Translating the gut microbiome: ready for the clinic?. *Nature Reviews Gastroenterology and Hepatology*, **2019**, 16, 656-661	24.2	20
47	Expression quantitative trait locus fine mapping of the 17q12-21 asthma locus in African American children: a genetic association and gene expression study. *Lancet Respiratory Medicine,the*, **2020**, 8, 482-492	35.1	20
46	Probiotic manipulation of the gastrointestinal microbiota. *Gut Microbes*, **2010**, 1, 335-338	8.8	20
45	Distinct associations of sputum and oral microbiota with atopic, immunologic, and clinical features in mild asthma. *Journal of Allergy and Clinical Immunology*, **2020**, 146, 1016-1026	11.5	17
44	Matrix metalloproteases in bronchoalveolar lavage fluid of patients with type III Pseudomonas aeruginosa pneumonia. *Journal of Infection*, **2009**, 59, 49-55	18.9	14
43	Gut microbiota in HIV-pneumonia patients is related to peripheral CD4 counts, lung microbiota, and in vitro macrophage dysfunction. *Microbiome*, **2019**, 7, 37	16.6	13
42	Fecal Microbiota Transplantation for Recurrent Clostridium difficile Infection in Pediatric Patients: Encouragement Wrapped in Caution. *Journal of Pediatric Gastroenterology and Nutrition*, **2015**, 60, 1-3	2.8	13
41	The human microbiome in the 21 century. *Nature Communications*, **2020**, 11, 5256	17.4	13
40	Gut Microbial Metabolism and Nonalcoholic Fatty Liver Disease. *Hepatology Communications*, **2019**, 3, 29-43	6	13
39	Heterogeneity of Microbiota Dysbiosis in Chronic Rhinosinusitis: Potential Clinical Implications and Microbial Community Mechanisms Contributing to Sinonasal Inflammation. *Frontiers in Cellular and Infection Microbiology*, **2018**, 8, 168	5.9	12
38	Fecal microbial therapy: promises and pitfalls. *Journal of Pediatric Gastroenterology and Nutrition*, **2014**, 59, 157-61	2.8	12
37	Cervicovaginal Microbiome Composition Is Associated with Metabolic Profiles in Healthy Pregnancy. *MBio*, **2020**, 11,	7.8	12
36	Corroborating evidence refutes batch effect as explanation for fetal bacteria. *Microbiome*, **2021**, 9, 10	16.6	12

35	Fetal and early postnatal lead exposure measured in teeth associates with infant gut microbiota. *Environment International*, **2020**, 144, 106062	12.9	11
34	Does pet-keeping modify the association of delivery mode with offspring body size?. *Maternal and Child Health Journal*, **2015**, 19, 1426-33	2.4	10
33	Microbiota, Epigenetics, and Trained Immunity. Convergent Drivers and Mediators of the Asthma Trajectory from Pregnancy to Childhood. *American Journal of Respiratory and Critical Care Medicine*, **2021**, 203, 802-808	10.2	10
32	Human gut bacterial metabolism drives Th17 activation and colitis. *Cell Host and Microbe*, **2021**,	23.4	9
31	Nucleic acid extraction efficiency and bacterial recovery from maxillary sinus mucosal samples obtained by brushing or biopsy. *American Journal of Rhinology and Allergy*, **2010**, 24, 263-5	2.4	8
30	Dual epithelial and immune cell function of Dvl1 regulates gut microbiota composition and intestinal homeostasis. *JCI Insight*, **2016**, 1,	9.9	8
29	Role of the lung microbiome in HIV pathogenesis. *Current Opinion in HIV and AIDS*, **2018**, 13, 45-52	4.2	7
28	Rearrangement of a large novel Pseudomonas aeruginosa gene island in strains isolated from a patient developing ventilator-associated pneumonia. *Journal of Clinical Microbiology*, **2014**, 52, 2430-8	9.7	7
27	Development of a standardized approach for environmental microbiota investigations related to asthma development in children. *Journal of Microbiological Methods*, **2012**, 91, 231-9	2.8	7
26	A20 in dendritic cells restrains intestinal anti-bacterial peptide expression and preserves commensal homeostasis. *PLoS ONE*, **2019**, 14, e0218999	3.7	6
25	Gut microbiome is associated with multiple sclerosis activity in children. *Annals of Clinical and Translational Neurology*, **2021**, 8, 1867-1883	5.3	6
24	Association between cesarean delivery types and obesity in preadolescence. *International Journal of Obesity*, **2020**, 44, 2023-2034	5.5	5
23	Impaired antibacterial immune signaling and changes in the lung microbiome precede secondary bacterial pneumonia in COVID-19 **2021**,		5
22	A chronic rhinosinusitis-derived isolate of Pseudomonas aeruginosa induces acute and pervasive effects on the murine upper airway microbiome and host immune response. *International Forum of Allergy and Rhinology*, **2016**, 6, 1229-1237	6.3	5
21	Maternal gut microbiome regulates immunity to RSV infection in offspring. *Journal of Experimental Medicine*, **2021**, 218,	16.6	4
20	Synchronous genitourinary lichen sclerosus signals a distinct urinary microbiome profile in men with urethral stricture disease. *World Journal of Urology*, **2021**, 39, 605-611	4	4
19	Forced evolution of Escherichia coli cells with the ability to effectively utilize non-natural amino acids l-tert-leucine, l-norleucine and □methyl-l-leucine. *Biocatalysis and Biotransformation*, **2010**, 28, 293-303	2.5	3
18	Microscopic Colitis Patients Possess a Perturbed and Inflammatory Gut Microbiota. *Digestive Diseases and Sciences*, **2021**, 1	4	3

17	Race-specific Association of Caesarean-Section Delivery with Body Size at Age 2 Years. *Ethnicity and Disease*, **2016**, 26, 61-8	1.8	3
16	Infant gut bacterial community composition and food-related manifestation of atopy in early childhood. *Pediatric Allergy and Immunology*, **2021**,	4.2	2
15	Cervicovaginal microbiome composition drives metabolic profiles in healthy pregnancy		2
14	Maternal and cord blood vitamin D level and the infant gut microbiota in a birth cohort study. *Maternal Health, Neonatology and Perinatology*, **2020**, 6, 5	3.4	2
13	Impaired immune signaling and changes in the lung microbiome precede secondary bacterial pneumonia in COVID-19 **2021**,		2
12	Motility and biofilm formation of the emerging gastrointestinal pathogen Campylobacter concisus differs under microaerophilic and anaerobic environments. *Gut Microbes*, **2019**, 10, 34-44	8.8	2
11	Rules of engagement in the gut microbiome. *Nature Medicine*, **2018**, 24, 1642-1644	50.5	2
10	Unconjugated bilirubin is associated with protection from early-life wheeze and childhood asthma. *Journal of Allergy and Clinical Immunology*, **2021**, 148, 128-138	11.5	2
9	Phyloarrays75-84		2
8	Moraxella-dominated pediatric nasopharyngeal microbiota associate with upper respiratory infection and sinusitis.. *PLoS ONE*, **2021**, 16, e0261179	3.7	2
7	Distinct lung microbiota associate with HIV-associated chronic lung disease in children. *Scientific Reports*, **2020**, 10, 16186	4.9	1
6	Intestinal inflammation alters the antigen-specific immune response to a skin commensal. *Cell Reports*, **2022**, 39, 110891	10.6	1
5	Gut Microbial Regulation of Autism Spectrum Disorder Symptoms. *Trends in Endocrinology and Metabolism*, **2020**, 31, 809-811	8.8	0
4	Pneumonia surveillance with culture-independent metatranscriptomics in HIV-positive adults in Uganda: a cross-sectional study.. *Lancet Microbe, The*, **2022**, 3, e357-e365	22.2	0
3	Strain-resolved analysis in a randomized trial of antibiotic pretreatment and maintenance dose delivery mode with fecal microbiota transplant for ulcerative colitis.. *Scientific Reports*, **2022**, 12, 5517	4.9	0
2	Associations of physical activity with gut microbiota in pre-adolescent children.. *Physical Activity and Nutrition*, **2021**, 25, 24-37	1.4	0
1	Relationship between Bacterial Colonization of Human Digestive and Respiratory Tract. *World Review of Nutrition and Dietetics*, **2013**, 64-71	0.2	