Daniel N Frank

List of Publications by Year
in descending order

85 papers	5,037 citations	172207 29 h-index	95083 68 g-index
91 all docs	91 docs citations	91 times ranked	8637 citing authors

#	Article	IF	Citations
1	Sex Differences in the Gut Microbiome Drive Hormone-Dependent Regulation of Autoimmunity. Science, 2013, 339, 1084-1088.	6.0	1,565
2	Explicet: graphical user interface software for metadata-driven management, analysis and visualization of microbiome data. Bioinformatics, 2013, 29, 3100-3101.	1.8	261
3	Alterations in Intestinal Microbiota Correlate With Susceptibility to Type 1 Diabetes. Diabetes, 2015, 64, 3510-3520.	0.3	246
4	Microbiome complexity and Staphylococcus aureus in chronic rhinosinusitis. Laryngoscope, 2012, 122, 467-472.	1.1	212
5	The gut microbiota in infants of obese mothers increases inflammation and susceptibility to NAFLD. Nature Communications, 2018, 9, 4462.	5.8	205
6	Comparison of Fecal Microbiota in Children with Autism Spectrum Disorders and Neurotypical Siblings in the Simons Simplex Collection. PLoS ONE, 2015, 10, e0137725.	1.1	173
7	Sinus microbiota varies among chronic rhinosinusitis phenotypes and predicts surgical outcome. Journal of Allergy and Clinical Immunology, 2015, 136, 334-342.e1.	1.5	158
8	Investigating the biological and clinical significance of human dysbioses. Trends in Microbiology, 2011, 19, 427-434.	3.5	157
9	BARCRAWL and BARTAB: software tools for the design and implementation of barcoded primers for highly multiplexed DNA sequencing. BMC Bioinformatics, 2009, 10, 362.	1.2	146
10	Modulation of Inflammatory Arthritis in Mice by Gut Microbiota Through Mucosal Inflammation and Autoantibody Generation. Arthritis and Rheumatology, 2018, 70, 1220-1233.	2.9	126
11	Low abundance of colonic butyrate-producing bacteria in HIV infection is associated with microbial translocation and immune activation. Aids, 2017, 31, 511-521.	1.0	123
12	Early Microbes Modify Immune System Development and Metabolic Homeostasisâ€"The â€œRestaurantâ€• Hypothesis Revisited. Frontiers in Endocrinology, 2017, 8, 349.	1.5	86
13	Obese Adolescents With PCOS Have Altered Biodiversity and Relative Abundance in Gastrointestinal Microbiota. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e2134-e2144.	1.8	83
14	Iron in Micronutrient Powder Promotes an Unfavorable Gut Microbiota in Kenyan Infants. Nutrients, 2017, 9, 776.	1.7	65
15	High Colonization Rate and Prolonged Shedding of Clostridium difficile in Pediatric Oncology Patients. Clinical Infectious Diseases, 2014, 59, 401-403.	2.9	64
16	Enhancement of HIV-1 infection and intestinal CD4+ T cell depletion ex vivo by gut microbes altered during chronic HIV-1 infection. Retrovirology, 2016, 13, 5.	0.9	60
17	Probiotic supplements prevented oxonic acid-induced hyperuricemia and renal damage. PLoS ONE, 2018, 13, e0202901.	1.1	57
18	Altered Interactions between the Gut Microbiome and Colonic Mucosa Precede Polyposis in APCMin/+ Mice. PLoS ONE, 2015, 10, e0127985.	1.1	48

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19	Impact of cigarette smoking on the middle meatus microbiome in health and chronic rhinosinusitis. International Forum of Allergy and Rhinology, 2015, 5, 981-989.	1.5	46
20	Maternal treatment with short-chain fatty acids modulates the intestinal microbiota and immunity and ameliorates type 1 diabetes in the offspring. PLoS ONE, 2017, 12, e0183786.	1.1	46
21	Perilipin-2 Modulates Lipid Absorption and Microbiome Responses in the Mouse Intestine. PLoS ONE, 2015, 10, e0131944.	1.1	43
22	Mode of Delivery Determines Neonatal Pharyngeal Bacterial Composition and Early Intestinal Colonization. Journal of Pediatric Gastroenterology and Nutrition, 2016, 63, 320-328.	0.9	43
23	Investigation of sinonasal microbiome spatial organization in chronic rhinosinusitis. International Forum of Allergy and Rhinology, 2017, 7, 16-23.	1.5	43
24	Altered Vaginal Microbiota Are Associated With Perinatal Mother-to-Child Transmission of HIV in African Women From Burkina Faso. Journal of Acquired Immune Deficiency Syndromes (1999), 2012, 60, 299-306.	0.9	42
25	Gestational Diabetes Is Uniquely Associated With Altered Early Seeding of the Infant Gut Microbiota. Frontiers in Endocrinology, 2020, 11, 603021.	1.5	41
26	Identification of Candidate Adherent-Invasive E. coli Signature Transcripts by Genomic/Transcriptomic Analysis. PLoS ONE, 2015, 10, e0130902.	1.1	40
27	Functional intraepithelial lymphocyte changes in inflammatory bowel disease and spondyloarthritis have disease specific correlations with intestinal microbiota. Arthritis Research and Therapy, 2018, 20, 149.	1.6	39
28	Antibiotic and Antiinflammatory Therapy Transiently Reduces Inflammation and Hypercoagulation in Acutely SIV-Infected Pigtailed Macaques. PLoS Pathogens, 2016, 12, e1005384.	2.1	38
29	Group B Streptococci Colonization in Pregnant Guatemalan Women: Prevalence, Risk Factors, and Vaginal Microbiome. Open Forum Infectious Diseases, 2017, 4, ofx020.	0.4	37
30	Bile acid sequestration reverses liver injury and prevents progression of nonalcoholic steatohepatitis in Western dietâ€“fed mice. Journal of Biological Chemistry, 2020, 295, 4733-4747.	1.6	37
31	A dysbiotic microbiome promotes head and neck squamous cell carcinoma. Oncogene, 2022, 41, 1269-1280.	2.6	32
32	High-fat diet exacerbates SIV pathogenesis and accelerates disease progression. Journal of Clinical Investigation, 2019, 129, 5474-5488.	3.9	31
33	High-Resolution Microbial Community Succession of Microbially Induced Concrete Corrosion in Working Sanitary Manholes. PLoS ONE, 2015, 10, e0116400.	1.1	30
34	Muc5ac Expression Protects the Colonic Barrier in Experimental Colitis. Inflammatory Bowel Diseases, 2020, 26, 1353-1367.	0.9	30
35	Longitudinal microbiome analysis of single donor fecal microbiota transplantation in patients with recurrent Clostridium difficile infection and/or ulcerative colitis. PLoS ONE, 2018, 13, e0190997.	1.1	29
36	Oral vitamin B₁₂ supplement is delivered to the distal gut, altering the corrinoid profile and selectively depleting Bacteroides in C57BL/6 mice. Gut Microbes, 2019, 10, 654-662.	4.3	28

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37	The Short-Chain Fatty Acid Butyrate Attenuates Pulmonary Vascular Remodeling and Inflammation in Hypoxia-Induced Pulmonary Hypertension. International Journal of Molecular Sciences, 2021, 22, 9916.	1.8	28
38	Effects of Vaccination with 10-Valent Pneumococcal Non-Typeable Haemophilus influenza Protein D Conjugate Vaccine (PHiD-CV) on the Nasopharyngeal Microbiome of Kenyan Toddlers. PLoS ONE, 2015, 10, e0128064.	1.1	26
39	Whole-Genome Sequencing Identifies In Vivo Acquisition of a bla _{CTX-M-27} -Carrying IncFII Transmissible Plasmid as the Cause of Ceftriaxone Treatment Failure for an Invasive Salmonella enterica Serovar Typhimurium Infection. Antimicrobial Agents and Chemotherapy, 2016, 60, 7224-7235.	1.4	26
40	Advanced Age Impairs Intestinal Antimicrobial Peptide Response and Worsens Fecal Microbiome Dysbiosis Following Burn Injury in Mice. Shock, 2020, 53, 71-77.	1.0	24
41	Among older adults, age-related changes in the stool microbiome differ by HIV-1 serostatus. EBioMedicine, 2019, 40, 583-594.	2.7	23
42	The Gut Microbiota during a Behavioral Weight Loss Intervention. Nutrients, 2021, 13, 3248.	1.7	23
43	Evaluation of bloodstream infections, Clostridium difficile infections, and gut microbiota in pediatric oncology patients. PLoS ONE, 2018, 13, e0191232.	1.1	22
44	Determinants of the Nasal Microbiome: Pilot Study of Effects of Intranasal Medication Use. Allergy and Rhinology, 2018, 9, 215265671878951.	0.7	21
45	Nutrimetabolomics reveals food-specific compounds in urine of adults consuming a DASH-style diet. Scientific Reports, 2020, 10, 1157.	1.6	18
46	Altered tissue specialized pro-resolving mediators in chronic rhinosinusitis. Prostaglandins Leukotrienes and Essential Fatty Acids, 2021, 164, 102218.	1.0	18
47	Genomic evolution of Staphylococcus aureus isolates colonizing the nares and progressing to bacteremia. PLoS ONE, 2018, 13, e0195860.	1.1	17
48	Expression of Bitter Taste Receptors and Solitary Chemosensory Cell Markers in the Human Sinonasal Cavity. Chemical Senses, 2019, 44, 483-495.	1.1	17
49	Different Gut Microbial Profiles in Sub-Saharan African and South Asian Women of Childbearing Age Are Primarily Associated With Dietary Intakes. Frontiers in Microbiology, 2019, 10, 1848.	1.5	16
50	An exercise intervention alters stool microbiota and metabolites among older, sedentary adults. Therapeutic Advances in Infectious Disease, 2021, 8, 204993612110270.	1.1	16
51	Microbiome in patients with upper airway disease: Moving from taxonomic findings to mechanisms and causality. Journal of Allergy and Clinical Immunology, 2018, 142, 73-75.	1.5	14
52	Otitis media susceptibility and shifts in the head and neck microbiome due to SPINK5 variants. Journal of Medical Genetics, 2021, 58, 442-452.	1.5	14
53	Hepatic steatosis relates to gastrointestinal microbiota changes in obese girls with polycystic ovary syndrome. PLoS ONE, 2021, 16, e0245219.	1.1	14
54	Influence of Crohnâ€™s disease related polymorphisms in innate immune function on ileal microbiome. PLoS ONE, 2019, 14, e0213108.	1.1	13

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55	Comparison of Whole-Genome Sequencing and Molecular-Epidemiological Techniques forClostridium difficileStrain Typing. Journal of the Pediatric Infectious Diseases Society, 2016, 5, 329-332.	0.6	12
56	tidyMicro: a pipeline for microbiome data analysis and visualization using the tidyverse in R. BMC Bioinformatics, 2021, 22, 41.	1.2	12
57	Expression of immunoglobulin D is increased in chronic rhinosinusitis. Annals of Allergy, Asthma and Immunology, 2017, 119, 317-323.e1.	0.5	11
58	The Acute Influence of Acid Suppression with Esomeprazole on Gastrointestinal Microbiota and Brain Gene Expression Profiles in a Murine Model of Restraint Stress. Neuroscience, 2019, 398, 206-217.	1.1	11
59	Randomized, Placebo-Controlled Trial of Rifaximin Therapy for Lowering Gut-Derived Cardiovascular Toxins and Inflammation in CKD. Kidney360, 2020, 1, 1206-1216.	0.9	10
60	Molecular analysis of single room humidifier bacteriology. Water Research, 2015, 69, 318-327.	5.3	9
61	Crohnâ€™s Disease Differentially Affects Region-Specific Composition and Aerotolerance Profiles of Mucosally Adherent Bacteria. Inflammatory Bowel Diseases, 2020, 26, 1843-1855.	0.9	9
62	Multiomic Predictors of Shortâ€Term Weight Loss and Clinical Outcomes During a Behavioralâ€Based Weight Loss Intervention. Obesity, 2021, 29, 859-869.	1.5	9
63	Identification of Novel Genes and Biological Pathways That Overlap in Infectious and Nonallergic Diseases of the Upper and Lower Airways Using Network Analyses. Frontiers in Genetics, 2019, 10, 1352.	1.1	9
64	Implication of the intestinal microbiome as a potential surrogate marker of immune responsiveness to experimental therapies in autoimmune diabetes. PLoS ONE, 2017, 12, e0173968.	1.1	7
65	Time Course of C-Reactive Protein and Procalcitonin Levels During the Treatment of Acute Bacterial Skin Infections. Open Forum Infectious Diseases, 2018, 5, ofy029.	0.4	7
66	Molecular Analysis of Bacterial and Circovirus Bioaerosols in Concentrated Animal Feeding Operations. Aerosol Science and Technology, 2013, 47, 755-766.	1.5	6
67	The FUT2 Variant c.461G>A (p.Trp154*) Is Associated With Differentially Expressed Genes and Nasopharyngeal Microbiota Shifts in Patients With Otitis Media. Frontiers in Cellular and Infection Microbiology, 2021, 11, 798246.	1.8	6
68	Age and Injury Size Influence the Magnitude of Fecal Dysbiosis in Adult Burn Patients. Journal of Burn Care and Research, 2022, , .	0.2	6
69	Complete Genome Sequence of Escherichia coli ER1821R, a Laboratory K-12 Derivative Engineered To Be Deficient in All Methylcytosine and Methyladenine Restriction Systems. Genome Announcements, 2016, 4, .	0.8	4
70	Multi-omic studies on missense PLG variants in families with otitis media. Scientific Reports, 2020, 10, 15035.	1.6	4
71	A Unique Gut Microbiomeâ€“Physical Function Axis Exists in Older People with HIV: An Exploratory Study. AIDS Research and Human Retroviruses, 2021, 37, 542-550.	0.5	4
72	Impact of preoperative antibiotics and other variables on integrated microbiome-host transcriptomic data generated from colorectal cancer resections. World Journal of Gastroenterology, 2021, 27, 1465-1482.	1.4	4

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73	The role of CDHR3 in susceptibility to otitis media. Journal of Molecular Medicine, 2021, 99, 1571-1583.	1.7	4
74	Effects of Complementary Feeding With Different Protein-Rich Foods on Infant Growth and Gut Health: Study Protocol. Frontiers in Pediatrics, 2021, 9, 793215.	0.9	4
75	Immune Responses to Circulating and Vaccine Viral Strains in HIV-Infected and Uninfected Children and Youth Who Received the 2013/2014 Quadrivalent Live-Attenuated Influenza Vaccine. Frontiers in Immunology, 2016, 7, 142.	2.2	3
76	Granzyme B ⁺ CD4 T cells accumulate in the colon during chronic HIV-1 infection. Gut Microbes, 2022, 14, 2045852.	4.3	3
77	Microbiota Associated With Cholesteatoma Tissue in Chronic Suppurative Otitis Media. Frontiers in Cellular and Infection Microbiology, 2022, 12, 746428.	1.8	3
78	Response to Comment on Alkanani et al. Alterations in Intestinal Microbiota Correlate With Susceptibility to Type 1 Diabetes. Diabetes 2015;64:3510â€“3520. Diabetes, 2015, 64, e41-e41.	0.3	2
79	Specialized pro-resolving mediator lipidome and 16S rRNA bacterial microbiome data associated with human chronic rhinosinusitis. Data in Brief, 2021, 36, 107023.	0.5	2
80	Cluster analysis of genome-wide expression differences in disease-unaffected ileal mucosa in inflammatory bowel diseases. , 2011, , .		1
81	Antibody responses to influenza a H1N1 vaccine compared to the circulating strain in influenza vaccine recipients during the 2013/2014 season in North America. Journal of Clinical Virology, 2016, 83, 56-60.	1.6	1
82	Infection and inflammation in chronic rhinosinusitis: Gene ontology/pathway analysis perspective. International Forum of Allergy and Rhinology, 2022, 12, 1566-1569.	1.5	1
83	Influence of Gelatin-Thrombin Matrix Tissue Sealant on Bacterial Colony Formation and Risk of Pelvic Infection. Infectious Diseases in Obstetrics and Gynecology, 2016, 2016, 1-6.	0.4	0
84	Reply to M Gotteland and F Magne. American Journal of Clinical Nutrition, 2017, 105, 234-236.	2.2	0
85	Combined Oral Contraceptive Treatment Does Not Alter the Gut Microbiome or Serum Metabolomic Profile in Obese Girls with Polycystic Ovary Syndrome. Journal of the Endocrine Society, 2021, 5, A711-A712.	0.1	0