

Daniel N Frank

List of Publications by Year in descending order

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85
papers

5,037
citations

172457

29
h-index

95266

68
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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. <i>Science</i> , 2013, 339, 1084-1088.	12.6	1,565
2	Explicit: graphical user interface software for metadata-driven management, analysis and visualization of microbiome data. <i>Bioinformatics</i> , 2013, 29, 3100-3101.	4.1	261
3	Alterations in Intestinal Microbiota Correlate With Susceptibility to Type 1 Diabetes. <i>Diabetes</i> , 2015, 64, 3510-3520.	0.6	246
4	Microbiome complexity and <i>Staphylococcus aureus</i> in chronic rhinosinusitis. <i>Laryngoscope</i> , 2012, 122, 467-472.	2.0	212
5	The gut microbiota in infants of obese mothers increases inflammation and susceptibility to NAFLD. <i>Nature Communications</i> , 2018, 9, 4462.	12.8	205
6	Comparison of Fecal Microbiota in Children with Autism Spectrum Disorders and Neurotypical Siblings in the Simons Simplex Collection. <i>PLoS ONE</i> , 2015, 10, e0137725.	2.5	173
7	Sinus microbiota varies among chronic rhinosinusitis phenotypes and predicts surgical outcome. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 136, 334-342.e1.	2.9	158
8	Investigating the biological and clinical significance of human dysbioses. <i>Trends in Microbiology</i> , 2011, 19, 427-434.	7.7	157
9	BARCRAWL and BARTAB: software tools for the design and implementation of barcoded primers for highly multiplexed DNA sequencing. <i>BMC Bioinformatics</i> , 2009, 10, 362.	2.6	146
10	Modulation of Inflammatory Arthritis in Mice by Gut Microbiota Through Mucosal Inflammation and Autoantibody Generation. <i>Arthritis and Rheumatology</i> , 2018, 70, 1220-1233.	5.6	126
11	Low abundance of colonic butyrate-producing bacteria in HIV infection is associated with microbial translocation and immune activation. <i>Aids</i> , 2017, 31, 511-521.	2.2	123
12	Early Microbes Modify Immune System Development and Metabolic Homeostasis—The “Restaurant” Hypothesis Revisited. <i>Frontiers in Endocrinology</i> , 2017, 8, 349.	3.5	86
13	Obese Adolescents With PCOS Have Altered Biodiversity and Relative Abundance in Gastrointestinal Microbiota. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e2134-e2144.	3.6	83
14	Iron in Micronutrient Powder Promotes an Unfavorable Gut Microbiota in Kenyan Infants. <i>Nutrients</i> , 2017, 9, 776.	4.1	65
15	High Colonization Rate and Prolonged Shedding of <i>Clostridium difficile</i> in Pediatric Oncology Patients. <i>Clinical Infectious Diseases</i> , 2014, 59, 401-403.	5.8	64
16	Enhancement of HIV-1 infection and intestinal CD4+ T cell depletion ex vivo by gut microbes altered during chronic HIV-1 infection. <i>Retrovirology</i> , 2016, 13, 5.	2.0	60
17	Probiotic supplements prevented oxonic acid-induced hyperuricemia and renal damage. <i>PLoS ONE</i> , 2018, 13, e0202901.	2.5	57
18	Altered Interactions between the Gut Microbiome and Colonic Mucosa Precede Polyposis in APCMin/+ Mice. <i>PLoS ONE</i> , 2015, 10, e0127985.	2.5	48

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19	Impact of cigarette smoking on the middle meatus microbiome in health and chronic rhinosinusitis. <i>International Forum of Allergy and Rhinology</i> , 2015, 5, 981-989.	2.8	46
20	Maternal treatment with short-chain fatty acids modulates the intestinal microbiota and immunity and ameliorates type 1 diabetes in the offspring. <i>PLoS ONE</i> , 2017, 12, e0183786.	2.5	46
21	Perilipin-2 Modulates Lipid Absorption and Microbiome Responses in the Mouse Intestine. <i>PLoS ONE</i> , 2015, 10, e0131944.	2.5	43
22	Mode of Delivery Determines Neonatal Pharyngeal Bacterial Composition and Early Intestinal Colonization. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2016, 63, 320-328.	1.8	43
23	Investigation of sinonasal microbiome spatial organization in chronic rhinosinusitis. <i>International Forum of Allergy and Rhinology</i> , 2017, 7, 16-23.	2.8	43
24	Altered Vaginal Microbiota Are Associated With Perinatal Mother-to-Child Transmission of HIV in African Women From Burkina Faso. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2012, 60, 299-306.	2.1	42
25	Gestational Diabetes Is Uniquely Associated With Altered Early Seeding of the Infant Gut Microbiota. <i>Frontiers in Endocrinology</i> , 2020, 11, 603021.	3.5	41
26	Identification of Candidate Adherent-Invasive <i>E. coli</i> Signature Transcripts by Genomic/Transcriptomic Analysis. <i>PLoS ONE</i> , 2015, 10, e0130902.	2.5	40
27	Functional intraepithelial lymphocyte changes in inflammatory bowel disease and spondyloarthritis have disease specific correlations with intestinal microbiota. <i>Arthritis Research and Therapy</i> , 2018, 20, 149.	3.5	39
28	Antibiotic and Antiinflammatory Therapy Transiently Reduces Inflammation and Hypercoagulation in Acutely SIV-Infected Pigtailed Macaques. <i>PLoS Pathogens</i> , 2016, 12, e1005384.	4.7	38
29	Group B Streptococci Colonization in Pregnant Guatemalan Women: Prevalence, Risk Factors, and Vaginal Microbiome. <i>Open Forum Infectious Diseases</i> , 2017, 4, ofx020.	0.9	37
30	Bile acid sequestration reverses liver injury and prevents progression of nonalcoholic steatohepatitis in Western diet-fed mice. <i>Journal of Biological Chemistry</i> , 2020, 295, 4733-4747.	3.4	37
31	A dysbiotic microbiome promotes head and neck squamous cell carcinoma. <i>Oncogene</i> , 2022, 41, 1269-1280.	5.9	32
32	High-fat diet exacerbates SIV pathogenesis and accelerates disease progression. <i>Journal of Clinical Investigation</i> , 2019, 129, 5474-5488.	8.2	31
33	High-Resolution Microbial Community Succession of Microbially Induced Concrete Corrosion in Working Sanitary Manholes. <i>PLoS ONE</i> , 2015, 10, e0116400.	2.5	30
34	Muc5ac Expression Protects the Colonic Barrier in Experimental Colitis. <i>Inflammatory Bowel Diseases</i> , 2020, 26, 1353-1367.	1.9	30
35	Longitudinal microbiome analysis of single donor fecal microbiota transplantation in patients with recurrent <i>Clostridium difficile</i> infection and/or ulcerative colitis. <i>PLoS ONE</i> , 2018, 13, e0190997.	2.5	29
36	Oral vitamin B ₁₂ supplement is delivered to the distal gut, altering the corrinoid profile and selectively depleting <i>Bacteroides</i> in C57BL/6 mice. <i>Gut Microbes</i> , 2019, 10, 654-662.	9.8	28

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37	The Short-Chain Fatty Acid Butyrate Attenuates Pulmonary Vascular Remodeling and Inflammation in Hypoxia-Induced Pulmonary Hypertension. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9916.	4.1	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. <i>PLoS ONE</i> , 2015, 10, e0128064.	2.5	26
39	Whole-Genome Sequencing Identifies <i>In Vivo</i> Acquisition of a <i>bla</i> CTX-M-27-Carrying IncFII Transmissible Plasmid as the Cause of Ceftriaxone Treatment Failure for an Invasive <i>Salmonella enterica</i> Serovar Typhimurium Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 7224-7235.	3.2	26
40	Advanced Age Impairs Intestinal Antimicrobial Peptide Response and Worsens Fecal Microbiome Dysbiosis Following Burn Injury in Mice. <i>Shock</i> , 2020, 53, 71-77.	2.1	24
41	Among older adults, age-related changes in the stool microbiome differ by HIV-1 serostatus. <i>EBioMedicine</i> , 2019, 40, 583-594.	6.1	23
42	The Gut Microbiota during a Behavioral Weight Loss Intervention. <i>Nutrients</i> , 2021, 13, 3248.	4.1	23
43	Evaluation of bloodstream infections, <i>Clostridium difficile</i> infections, and gut microbiota in pediatric oncology patients. <i>PLoS ONE</i> , 2018, 13, e0191232.	2.5	22
44	Determinants of the Nasal Microbiome: Pilot Study of Effects of Intranasal Medication Use. <i>Allergy and Rhinology</i> , 2018, 9, 215265671878951.	1.6	21
45	Nutrimetabolomics reveals food-specific compounds in urine of adults consuming a DASH-style diet. <i>Scientific Reports</i> , 2020, 10, 1157.	3.3	18
46	Altered tissue specialized pro-resolving mediators in chronic rhinosinusitis. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021, 164, 102218.	2.2	18
47	Genomic evolution of <i>Staphylococcus aureus</i> isolates colonizing the nares and progressing to bacteremia. <i>PLoS ONE</i> , 2018, 13, e0195860.	2.5	17
48	Expression of Bitter Taste Receptors and Solitary Chemosensory Cell Markers in the Human Sinonasal Cavity. <i>Chemical Senses</i> , 2019, 44, 483-495.	2.0	17
49	Different Gut Microbial Profiles in Sub-Saharan African and South Asian Women of Childbearing Age Are Primarily Associated With Dietary Intakes. <i>Frontiers in Microbiology</i> , 2019, 10, 1848.	3.5	16
50	An exercise intervention alters stool microbiota and metabolites among older, sedentary adults. <i>Therapeutic Advances in Infectious Disease</i> , 2021, 8, 204993612110270.	1.8	16
51	Microbiome in patients with upper airway disease: Moving from taxonomic findings to mechanisms and causality. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 73-75.	2.9	14
52	Otitis media susceptibility and shifts in the head and neck microbiome due to <i>SPINK5</i> variants. <i>Journal of Medical Genetics</i> , 2021, 58, 442-452.	3.2	14
53	Hepatic steatosis relates to gastrointestinal microbiota changes in obese girls with polycystic ovary syndrome. <i>PLoS ONE</i> , 2021, 16, e0245219.	2.5	14
54	Influence of Crohn's disease related polymorphisms in innate immune function on ileal microbiome. <i>PLoS ONE</i> , 2019, 14, e0213108.	2.5	13

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55	Comparison of Whole-Genome Sequencing and Molecular-Epidemiological Techniques for <i>Clostridium difficile</i> Strain Typing. <i>Journal of the Pediatric Infectious Diseases Society</i> , 2016, 5, 329-332.	1.3	12
56	tidyMicro: a pipeline for microbiome data analysis and visualization using the tidyverse in R. <i>BMC Bioinformatics</i> , 2021, 22, 41.	2.6	12
57	Expression of immunoglobulin D is increased in chronic rhinosinusitis. <i>Annals of Allergy, Asthma and Immunology</i> , 2017, 119, 317-323.e1.	1.0	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. <i>Neuroscience</i> , 2019, 398, 206-217.	2.3	11
59	Randomized, Placebo-Controlled Trial of Rifaximin Therapy for Lowering Gut-Derived Cardiovascular Toxins and Inflammation in CKD. <i>Kidney360</i> , 2020, 1, 1206-1216.	2.1	10
60	Molecular analysis of single room humidifier bacteriology. <i>Water Research</i> , 2015, 69, 318-327.	11.3	9
61	Crohn's Disease Differentially Affects Region-Specific Composition and Aerotolerance Profiles of Mucosally Adherent Bacteria. <i>Inflammatory Bowel Diseases</i> , 2020, 26, 1843-1855.	1.9	9
62	Multiomic Predictors of Short-Term Weight Loss and Clinical Outcomes During a Behavioral-Based Weight Loss Intervention. <i>Obesity</i> , 2021, 29, 859-869.	3.0	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. <i>Frontiers in Genetics</i> , 2019, 10, 1352.	2.3	9
64	Implication of the intestinal microbiome as a potential surrogate marker of immune responsiveness to experimental therapies in autoimmune diabetes. <i>PLoS ONE</i> , 2017, 12, e0173968.	2.5	7
65	Time Course of C-Reactive Protein and Procalcitonin Levels During the Treatment of Acute Bacterial Skin Infections. <i>Open Forum Infectious Diseases</i> , 2018, 5, ofy029.	0.9	7
66	Molecular Analysis of Bacterial and Circovirus Bioaerosols in Concentrated Animal Feeding Operations. <i>Aerosol Science and Technology</i> , 2013, 47, 755-766.	3.1	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. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 798246.	3.9	6
68	Age and Injury Size Influence the Magnitude of Fecal Dysbiosis in Adult Burn Patients. <i>Journal of Burn Care and Research</i> , 2022, , .	0.4	6
69	Complete Genome Sequence of <i>Escherichia coli</i> ER1821R, a Laboratory K-12 Derivative Engineered To Be Deficient in All Methylcytosine and Methyladenine Restriction Systems. <i>Genome Announcements</i> , 2016, 4, .	0.8	4
70	Multi-omic studies on missense PLG variants in families with otitis media. <i>Scientific Reports</i> , 2020, 10, 15035.	3.3	4
71	A Unique Gut Microbiome—Physical Function Axis Exists in Older People with HIV: An Exploratory Study. <i>AIDS Research and Human Retroviruses</i> , 2021, 37, 542-550.	1.1	4
72	Impact of preoperative antibiotics and other variables on integrated microbiome-host transcriptomic data generated from colorectal cancer resections. <i>World Journal of Gastroenterology</i> , 2021, 27, 1465-1482.	3.3	4

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73	The role of CDHR3 in susceptibility to otitis media. <i>Journal of Molecular Medicine</i> , 2021, 99, 1571-1583.	3.9	4
74	Effects of Complementary Feeding With Different Protein-Rich Foods on Infant Growth and Gut Health: Study Protocol. <i>Frontiers in Pediatrics</i> , 2021, 9, 793215.	1.9	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. <i>Frontiers in Immunology</i> , 2016, 7, 142.	4.8	3
76	Granzyme B ⁺ CD4 T cells accumulate in the colon during chronic HIV-1 infection. <i>Gut Microbes</i> , 2022, 14, 2045852.	9.8	3
77	Microbiota Associated With Cholesteatoma Tissue in Chronic Suppurative Otitis Media. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 746428.	3.9	3
78	Response to Comment on Alkanani et al. Alterations in Intestinal Microbiota Correlate With Susceptibility to Type 1 Diabetes. <i>Diabetes</i> 2015;64:3510â€“3520. <i>Diabetes</i> , 2015, 64, e41-e41.	0.6	2
79	Specialized pro-resolving mediator lipidome and 16S rRNA bacterial microbiome data associated with human chronic rhinosinusitis. <i>Data in Brief</i> , 2021, 36, 107023.	1.0	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. <i>Journal of Clinical Virology</i> , 2016, 83, 56-60.	3.1	1
82	Infection and inflammation in chronic rhinosinusitis: Gene ontology/pathway analysis perspective. <i>International Forum of Allergy and Rhinology</i> , 2022, 12, 1566-1569.	2.8	1
83	Influence of Gelatin-Thrombin Matrix Tissue Sealant on Bacterial Colony Formation and Risk of Pelvic Infection. <i>Infectious Diseases in Obstetrics and Gynecology</i> , 2016, 2016, 1-6.	1.5	0
84	Reply to M Gotteland and F Magne. <i>American Journal of Clinical Nutrition</i> , 2017, 105, 234-236.	4.7	0
85	Combined Oral Contraceptive Treatment Does Not Alter the Gut Microbiome or Serum Metabolomic Profile in Obese Girls with Polycystic Ovary Syndrome. <i>Journal of the Endocrine Society</i> , 2021, 5, A711-A712.	0.2	0