The Impact of Dietary Transition Metals on Host-Bacter

Cell Host and Microbe 23, 737-748 DOI: 10.1016/j.chom.2018.05.008

Citation Report

#	Article	IF	CITATIONS
1	Wildlife-microbiome interactions and disease: exploring opportunities for disease mitigation across ecological scales. Drug Discovery Today: Disease Models, 2018, 28, 105-115.	1.2	25
2	Localization of all four ZnT zinc transporters in <i>Dictyostelium</i> and impact of ZntA and B knockout on bacteria killing. Journal of Cell Science, 2018, 131, .	1.2	22
3	The gut microbiota at the intersection of diet and human health. Science, 2018, 362, 776-780.	6.0	683
4	Evolving in a Microbial Soup: You Are What They Eat. Developmental Cell, 2018, 47, 682-683.	3.1	0
5	Mucins and Their Role in Shaping the Functions of Mucus Barriers. Annual Review of Cell and Developmental Biology, 2018, 34, 189-215.	4.0	171
6	Ionic Modulation of Bacterial Virulence and Its Role in Surgical Infection. Surgical Infections, 2018, 19, 769-773.	0.7	4
7	The novel interaction between Neisseria gonorrhoeae TdfJ and human S100A7 allows gonococci to subvert host zinc restriction. PLoS Pathogens, 2019, 15, e1007937.	2.1	32
8	Incorporating functional trade-offs into studies of the gut microbiota. Current Opinion in Microbiology, 2019, 50, 20-27.	2.3	14
9	You'd Better Zinc—Trace Element Homeostasis in Infection and Inflammation. Nutrients, 2019, 11, 2078.	1.7	28
10	Potassium response and homeostasis in Mycobacterium tuberculosis modulates environmental adaptation and is important for host colonization. PLoS Pathogens, 2019, 15, e1007591.	2.1	43
11	Emerging Opportunities To Manipulate Metal Trafficking for Therapeutic Benefit. Inorganic Chemistry, 2019, 58, 13528-13545.	1.9	68
12	Metals as phagocyte antimicrobial effectors. Current Opinion in Immunology, 2019, 60, 1-9.	2.4	99
13	ZincÂphosphate-based nanoparticles as a novel antibacterial agent: in vivo study on rats after dietary exposure. Journal of Animal Science and Biotechnology, 2019, 10, 17.	2.1	27
14	Transition metals and host-microbe interactions in the inflamed intestine. BioMetals, 2019, 32, 369-384.	1.8	10
15	The Immune Protein Calprotectin Impacts Clostridioides difficile Metabolism through Zinc Limitation. MBio, 2019, 10, .	1.8	21
16	Zinc Deficiency During Pregnancy Leads to Altered Microbiome and Elevated Inflammatory Markers in Mice. Frontiers in Neuroscience, 2019, 13, 1295.	1.4	51
17	Using Enteric Pathogens to Probe the Gut Microbiota. Trends in Microbiology, 2019, 27, 243-253.	3.5	19
18	Regulation of mitochondrial iron homeostasis by sideroflexin 2. Journal of Physiological Sciences, 2019, 69, 359-373.	0.9	32

#	Article	IF	CITATIONS
19	Thinking Outside the Cereal Box: Noncarbohydrate Routes for Dietary Manipulation of the Gut Microbiota. Applied and Environmental Microbiology, 2019, 85, .	1.4	14
20	The Systemic Zinc Homeostasis Was Modulated in Broilers Challenged by Salmonella. Biological Trace Element Research, 2020, 196, 243-251.	1.9	5
21	IL-17C Protects Nasal Epithelium from Pseudomonas aeruginosa Infection. American Journal of Respiratory Cell and Molecular Biology, 2020, 62, 95-103.	1.4	10
22	<i>Bacillus subtilis</i> TerC Family Proteins Help Prevent Manganese Intoxication. Journal of Bacteriology, 2020, 202, .	1.0	24
23	Iron at the host-microbe interface. Molecular Aspects of Medicine, 2020, 75, 100895.	2.7	24
24	Effect of Dietary Magnesium Content on Intestinal Microbiota of Rats. Nutrients, 2020, 12, 2889.	1.7	21
25	Type I Interferons Ameliorate Zinc Intoxication of Candida glabrata by Macrophages and Promote Fungal Immune Evasion. IScience, 2020, 23, 101121.	1.9	14
26	The Effectiveness of Multi-Session FMT Treatment in Active Ulcerative Colitis Patients: A Pilot Study. Biomedicines, 2020, 8, 268.	1.4	20
27	Highâ€dose dietary supplementation with zinc prevents gut inflammation: Investigation of the role of metallothioneins and beyond by transcriptomic and metagenomic studies. FASEB Journal, 2020, 34, 12615-12633.	0.2	20
28	Longitudinal Investigation of the Gut Microbiota in Goat Kids from Birth to Postweaning. Microorganisms, 2020, 8, 1111.	1.6	28
29	New Insights Into DAEC and EAEC Pathogenesis and Phylogeny. Frontiers in Cellular and Infection Microbiology, 2020, 10, 572951.	1.8	11
30	Hemoglobin stimulates vigorous growth of Streptococcus pneumoniae and shapes the pathogen's global transcriptome. Scientific Reports, 2020, 10, 15202.	1.6	17
31	Methylmercury Interactions With Gut Microbiota and Potential Modulation of Neurogenic Niches in the Brain. Frontiers in Neuroscience, 2020, 14, 576543.	1.4	8
32	The impact of maternal and early life malnutrition on health: a diet-microbe perspective. BMC Medicine, 2020, 18, 135.	2.3	25
33	Structural and Proteomic Characterization of the Initiation of Giant Virus Infection. Cell, 2020, 181, 1046-1061.e6.	13.5	35
34	Iron sequestration by transferrin 1 mediates nutritional immunity in <i>Drosophila melanogaster</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7317-7325.	3.3	78
35	Trans-Acting Small RNAs and Their Effects on Gene Expression in <i>Escherichia coli</i> and <i>Salmonella enterica</i> . EcoSal Plus, 2020, 9, .	2.1	161
36	Metal-Limited Growth of Neisseria gonorrhoeae for Characterization of Metal-Responsive Genes and Metal Acquisition from Host Ligands. Journal of Visualized Experiments, 2020, , .	0.2	3

#	Article	IF	CITATIONS
37	Xenosiderophore Utilization Promotes Bacteroides thetaiotaomicron Resilience during Colitis. Cell Host and Microbe, 2020, 27, 376-388.e8.	5.1	61
38	Type I Interferon Response Dysregulates Host Iron Homeostasis and Enhances Candida glabrata Infection. Cell Host and Microbe, 2020, 27, 454-466.e8.	5.1	41
39	New Biomarkers for Crohn's Disease. Gastroenterology, 2020, 159, 30-32.	0.6	1
40	Enterococcus faecalis Manganese Exporter MntE Alleviates Manganese Toxicity and Is Required for Mouse Gastrointestinal Colonization. Infection and Immunity, 2020, 88, .	1.0	13
41	Dendritic cell–derived hepcidin sequesters iron from the microbiota to promote mucosal healing. Science, 2020, 368, 186-189.	6.0	80
42	mSphere of Influence: Decoding Transcriptional Regulatory Networks To Illuminate the Mechanisms of Microbial Pathogenicity. MSphere, 2020, 5, .	1.3	2
43	How Pathogens Feel and Overcome Magnesium Limitation When in Host Tissues. Trends in Microbiology, 2021, 29, 98-106.	3.5	14
44	Role of Dietary Micronutrients on Gut Microbial Dysbiosis and Modulation in Inflammatory Bowel Disease. Molecular Nutrition and Food Research, 2021, 65, 1901271.	1.5	6
45	Dietary Modulation of the Gut Microbiome—Probing the Role of Small RNAs. , 2021, , 380-397.		0
46	High fat diet, gut microbiome and gastrointestinal cancer. Theranostics, 2021, 11, 5889-5910.	4.6	60
46 47	High fat diet, gut microbiome and gastrointestinal cancer. Theranostics, 2021, 11, 5889-5910. Iron Reshapes the Gut Microbiome and Host Metabolism. Journal of Lipid and Atherosclerosis, 2021, 10, 160.	4.6 1.1	60 14
46 47 48	High fat diet, gut microbiome and gastrointestinal cancer. Theranostics, 2021, 11, 5889-5910. Iron Reshapes the Gut Microbiome and Host Metabolism. Journal of Lipid and Atherosclerosis, 2021, 10, 160. A systems-based analysis to explore the multiple mechanisms of Shan Zha for treating human diseases. Food and Function, 2021, 12, 1176-1191.	4.6 1.1 2.1	60 14 5
46 47 48 49	High fat diet, gut microbiome and gastrointestinal cancer. Theranostics, 2021, 11, 5889-5910. Iron Reshapes the Gut Microbiome and Host Metabolism. Journal of Lipid and Atherosclerosis, 2021, 10, 160. A systems-based analysis to explore the multiple mechanisms of Shan Zha for treating human diseases. Food and Function, 2021, 12, 1176-1191. Hemoglobin Induces Early and Robust Biofilm Development in <i>Streptococcus pneumoniae</i> by a Pathway That Involves <i>comC</i> but Not the Cognate <i>comDE</i> Two-Component System. Infection and Immunity, 2021, 89, .	4.6 1.1 2.1 1.0	60 14 5 9
46 47 48 49 50	High fat diet, gut microbiome and gastrointestinal cancer. Theranostics, 2021, 11, 5889-5910. Iron Reshapes the Gut Microbiome and Host Metabolism. Journal of Lipid and Atherosclerosis, 2021, 10, 160. A systems-based analysis to explore the multiple mechanisms of Shan Zha for treating human diseases. Food and Function, 2021, 12, 1176-1191. Hemoglobin Induces Early and Robust Biofilm Development in <i>Streptococcus pneumoniae </i> by a Pathway That Involves <i> comC </i> but Not the Cognate <i> comDE </i> Two-Component System. Infection and Immunity, 2021, 89, . The Important Role of Metal Ions for Survival of Francisella in Water within Amoeba Environment. BioMed Research International, 2021, 2021, 1-10.	4.6 1.1 2.1 1.0 0.9	60 14 5 9 1
46 47 48 49 50 51	High fat diet, gut microbiome and gastrointestinal cancer. Theranostics, 2021, 11, 5889-5910. Iron Reshapes the Gut Microbiome and Host Metabolism. Journal of Lipid and Atherosclerosis, 2021, 10, 160. A systems-based analysis to explore the multiple mechanisms of Shan Zha for treating human diseases. Food and Function, 2021, 12, 1176-1191. Hemoglobin Induces Early and Robust Biofilm Development in <i>Streptococccus pneumoniae</i> by a Pathway That Involves <i>comC</i> but Not the Cognate <i>comDE</i> Two-Component System. Infection and Immunity, 2021, 89, . The Important Role of Metal Ions for Survival of Francisella in Water within Amoeba Environment. BioMed Research International, 2021, 2021, 1-10. Recent Advances in Understanding the Influence of Zinc, Copper, and Manganese on the Castrointestinal Environment of Pigs and Poultry. Animals, 2021, 11, 1276.	4.6 1.1 2.1 1.0 0.9 1.0	 60 14 5 9 1 24
 46 47 48 49 50 51 52 	High fat diet, gut microbiome and gastrointestinal cancer. Theranostics, 2021, 11, 5889-5910. Iron Reshapes the Gut Microbiome and Host Metabolism. Journal of Lipid and Atherosclerosis, 2021, 10, 160. A systems-based analysis to explore the multiple mechanisms of Shan Zha for treating human diseases. Food and Function, 2021, 12, 1176-1191. Hemoglobin Induces Early and Robust Biofilm Development in <i>Streptococcus pneumoniae</i> by a Pathway That Involves <i>comC</i> but Not the Cognate <i>comDE</i> Two-Component System. Infection and Immunity, 2021, 89, . The Important Role of Metal Ions for Survival of Francisella in Water within Amoeba Environment. BioMed Research International, 2021, 2021, 1-10. Recent Advances in Understanding the Influence of Zinc, Copper, and Manganese on the Castrointestinal Environment of Pigs and Poultry. Animals, 2021, 11, 1276. Excessive Unbalanced Meat Consumption in the First Year of Life Increases Asthma Risk in the PASTURE and LUKAS2 Birth Cohorts. Frontiers in Immunology, 2021, 12, 651709.	4.6 1.1 2.1 1.0 0.9 1.0 2.2	 60 14 5 9 1 24 7
 46 47 48 49 50 51 52 53 	High fat diet, gut microbiome and gastrointestinal cancer. Theranostics, 2021, 11, 5889-5910. Iron Reshapes the Gut Microbiome and Host Metabolism. Journal of Lipid and Atherosclerosis, 2021, 10, 160. A systems-based analysis to explore the multiple mechanisms of Shan Zha for treating human diseases. Food and Function, 2021, 12, 1176-1191. Hemoglobin Induces Early and Robust Biofilm Development in <i>Streptococcus pneumoniae</i> by a Pathway That Involves <i>comC</i> but Not the Cognate <i>comDE</i> Two-Component System. Infection and Immunity, 2021, 89, . The Important Role of Metal Ions for Survival of Francisella in Water within Amoeba Environment. BioMed Research International, 2021, 2021, 1-10. Recent Advances in Understanding the Influence of Zinc, Copper, and Manganese on the Gastrointestinal Environment of Pigs and Poultry. Animals, 2021, 11, 1276. Excessive Unbalanced Meat Consumption in the First Year of Life Increases Asthma Risk in the PASTURE and LUKAS2 Birth Cohorts. Frontiers in Immunology, 2021, 12, 651709. Oral iron supplementation in patients with chronic kidney disease: Can it be harmful to the gut microbiota?. Nutrition in Clinical Practice, 2022, 37, 81-93.	4.6 1.1 2.1 1.0 0.9 1.0 2.2 1.1	 60 14 5 9 1 24 7 8

#	Article	IF	CITATIONS
55	Enriched Opportunistic Pathogens Revealed by Metagenomic Sequencing Hint Potential Linkages between Pharyngeal Microbiota and COVID-19. Virologica Sinica, 2021, 36, 924-933.	1.2	24
56	Selenium in Human Health and Gut Microflora: Bioavailability of Selenocompounds and Relationship With Diseases. Frontiers in Nutrition, 2021, 8, 685317.	1.6	90
57	Lacticaseibacillus rhamnosus Impedes Growth of Listeria spp. in Cottage Cheese through Manganese Limitation. Foods, 2021, 10, 1353.	1.9	8
58	Metallo-β-lactamases in the Age of Multidrug Resistance: From Structure and Mechanism to Evolution, Dissemination, and Inhibitor Design. Chemical Reviews, 2021, 121, 7957-8094.	23.0	114
59	Mutations in Ehrlichia chaffeensis Genes ECH_0660 and ECH_0665 Cause Transcriptional Changes in Response to Zinc or Iron Limitation. Journal of Bacteriology, 2021, 203, e0002721.	1.0	3
60	Manganese homeostasis at the host-pathogen interface and in the host immune system. Seminars in Cell and Developmental Biology, 2021, 115, 45-53.	2.3	19
61	Ferritin H deficiency deteriorates cellular iron handling and worsens Salmonella typhimurium infection by triggering hyperinflammation. JCI Insight, 2021, 6, .	2.3	16
62	Controls of Hyperglycemia Improves Dysregulated Microbiota in Diabetic Mice. Transplantation, 2021, 105, 1980-1988.	0.5	4
63	Baseline iron status and presence of anaemia determine the course of systemic Salmonella infection following oral iron supplementation in mice. EBioMedicine, 2021, 71, 103568.	2.7	18
64	Effects of dietary manganese supplementation on growth performance, antioxidant capacity, immune function and intestinal microbiota in Pacific white shrimp <i>Litopenaeus vannamei</i> . Aquaculture Nutrition, 2021, 27, 1972-1982.	1.1	7
65	The Mineral Intake and Microbiota. , 2022, , 230-242.		1
66	Competitors versus Collaborators: Micronutrient Processing by Pathogenic and Commensal Human-Associated Gut Bacteria. Molecular Cell, 2020, 78, 570-576.	4.5	25
67	Urinary tract infections: microbial pathogenesis, host–pathogen interactions and new treatment strategies. Nature Reviews Microbiology, 2020, 18, 211-226.	13.6	258
69	RNA-based thermoregulation of a Campylobacter jejuni zinc resistance determinant. PLoS Pathogens, 2020, 16, e1009008.	2.1	8
70	Epithelial-microbial diplomacy: escalating border tensions drive inflammation in inflammatory bowel disease. Intestinal Research, 2019, 17, 177-191.	1.0	14
71	NHR-14 loss of function couples intestinal iron uptake with innate immunity in C. elegans through PQM-1 signaling. ELife, 2019, 8, .	2.8	22
72	Candida Pathogenicity and Interplay with the Immune System. Advances in Experimental Medicine and Biology, 2021, 1313, 241-272.	0.8	13
73	Environmental-level exposure to metals and metal-mixtures associated with spirometry-defined lung disease in American Indian adults: Evidence from the Strong Heart Study. Environmental Research, 2022, 207, 112194.	3.7	15

#	Article	IF	CITATIONS
75	Zinc Transporters Involved in Vectorial Zinc Transport in Intestinal Epithelial Cells. Physiology in Health and Disease, 2020, , 447-465.	0.2	1
76	Yersiniabactin contributes to overcoming zinc restriction during <i>Yersinia pestis</i> infection of mammalian and insect hosts. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	23
77	Extracerebral biometals in autism spectrum disorders: the gut–brain axis. , 2020, , 169-180.		0
78	Effect of Long-Term and Short-Term Imbalanced Zn Manipulation on Gut Microbiota and Screening for Microbial Markers Sensitive to Zinc Status. Microbiology Spectrum, 2021, 9, e0048321.	1.2	17
79	What's metal got to do with it? Transition metals in Clostridioides difficile infection. Current Opinion in Microbiology, 2022, 65, 116-122.	2.3	2
81	The roles of metals in insect–microbe interactions and immunity. Current Opinion in Insect Science, 2022, 49, 71-77.	2.2	20
82	Differential Effects of Transition Metals on Growth and Metal Uptake for Two Distinct <i>Lactobacillus</i> Species. Microbiology Spectrum, 2022, 10, e0100621.	1.2	10
85	Modulatory Effects of Fractalkine on Inflammatory Response and Iron Metabolism of Lipopolysaccharide and Lipoteichoic Acid-Activated THP-1 Macrophages. International Journal of Molecular Sciences, 2022, 23, 2629.	1.8	6
86	Comprehensive Review Regarding Mercury Poisoning and Its Complex Involvement in Alzheimer's Disease. International Journal of Molecular Sciences, 2022, 23, 1992.	1.8	11
87	Pseudomonas Synergizes with Fluconazole against <i>Candida</i> during Treatment of Polymicrobial Infection. Infection and Immunity, 2022, 90, e0062621.	1.0	7
88	Immunometabolic crosstalk during bacterial infection. Nature Microbiology, 2022, 7, 497-507.	5.9	45
90	How the Presence of Hemin Affects the Expression of the Different Iron Uptake Pathways in <i>Pseudomonas aeruginosa</i> Cells. ACS Infectious Diseases, 2022, 8, 183-196.	1.8	4
91	Gene-environment interaction analysis of redox-related metals and genetic variants with plasma metabolic patterns in a general population from Spain: The Hortega Study. Redox Biology, 2022, 52, 102314.	3.9	9
95	The Role of Microbiota in Drosophila melanogaster Aging. Frontiers in Aging, 2022, 3, .	1.2	18
96	Nutritional immunity: the battle for nutrient metals at the host–pathogen interface. Nature Reviews Microbiology, 2022, 20, 657-670.	13.6	143
97	A Review of Road Traffic-Derived Non-Exhaust Particles: Emissions, Physicochemical Characteristics, Health Risks, and Mitigation Measures. Environmental Science & Technology, 2022, 56, 6813-6835.	4.6	95
98	Host and Clostridioides difficile-Response Modulated by Micronutrients and Glutamine: An Overview. Frontiers in Nutrition, 0, 9, .	1.6	2
99	SPD_0090 Negatively Contributes to Virulence of Streptococcus pneumoniae. Frontiers in Microbiology, 0, 13, .	1.5	1

#	Article	IF	CITATIONS
100	Inflammatory adipose activates a nutritional immunity pathway leading to retinal dysfunction. Cell Reports, 2022, 39, 110942.	2.9	9
101	Managing Manganese: The Role of Manganese Homeostasis in Streptococcal Pathogenesis. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	8
102	Regulation of Bacterial Manganese Homeostasis and Usage During Stress Responses and Pathogenesis. Frontiers in Molecular Biosciences, 0, 9, .	1.6	9
103	Alteration in Gut Microbiota Associated with Zinc Deficiency in School-Age Children. Nutrients, 2022, 14, 2895.	1.7	10
104	The role of iron in host–microbiota crosstalk and its effects on systemic glucose metabolism. Nature Reviews Endocrinology, 2022, 18, 683-698.	4.3	35
106	<i>N</i> â€Acyl Amides from <i>Neisseria meningitidis</i> and Their Role in Sphingosine Receptor Signaling. ChemBioChem, 2022, 23, .	1.3	2
107	A protein-based cGAS-STING nanoagonist enhances T cell-mediated anti-tumor immune responses. Nature Communications, 2022, 13, .	5.8	55
108	Two-component systems regulate bacterial virulence in response to the host gastrointestinal environment and metabolic cues. Virulence, 2022, 13, 1666-1680.	1.8	11
109	Intestinal mucin is a chaperone of multivalent copper. Cell, 2022, 185, 4206-4215.e11.	13.5	13
110	Metallobiology of Lactobacillaceae in the gut microbiome. Journal of Inorganic Biochemistry, 2023, 238, 112023.	1.5	17
112	Anti-inflammatory mechanisms of polyphenols in adipose tissue: role of gut microbiota, intestinal barrier integrity and zinc homeostasis. Journal of Nutritional Biochemistry, 2023, 115, 109242.	1.9	7
113	Advances in the study of selenium and human intestinal bacteria. Frontiers in Nutrition, 0, 9, .	1.6	1
114	Zinc homeostasis in Pseudomonas. BioMetals, 2023, 36, 729-744.	1.8	10
115	Iron restriction induces the small-colony variant phenotype in Staphylococcus aureus. Frontiers in Microbiology, 0, 13, .	1.5	4
116	The impact of iron and heme availability on the healthy human gut microbiome inÂvivo and inÂvitro. Cell Chemical Biology, 2023, 30, 110-126.e3.	2.5	11
117	Iron homeostasis in Bacillus subtilis relies on three differentially expressed efflux systems. Microbiology (United Kingdom), 2023, 169, .	0.7	2
118	The effect of dietary zinc and zinc physiological status on the composition of the gut microbiome <i>in vivo</i> . Critical Reviews in Food Science and Nutrition, 0, , 1-20.	5.4	7
119	Anthropogenic hyperactivity for natural resources increases heavy metals concentrations in the environment: Toxicity of healthy food and cancer risks estimated. , 2023, 4, 100057.		5

	Сітатіо	TATION REPORT	
#	Article	IF	CITATIONS
121	Manganese Efflux Achieved by MetA and MetB Affects Oxidative Stress Resistance and Iron Homeostasis in Riemerella anatipestifer. Applied and Environmental Microbiology, 2023, 89, .	1.4	5
122	Identification of Multiple Iron Uptake Mechanisms in Enterococcus faecalis and Their Relationship to Virulence. Infection and Immunity, 2023, 91, .	1.0	1
123	Untangling Cellular Host-Pathogen Encounters at Infection Bottlenecks. Infection and Immunity, 2023, 91, .	1.0	2
124	Overview of Yersinia pestis Metallophores: Yersiniabactin and Yersinopine. Biology, 2023, 12, 598.	1.3	8
131	Trace metal elements: a bridge between host and intestinal microorganisms. Science China Life Sciences, 2023, 66, 1976-1993.	2.3	1