

# Tiffany L Weir

## List of Publications by Year in descending order

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96  
papers

12,560  
citations

76326

40  
h-index

62596

80  
g-index

105  
all docs

105  
docs citations

105  
times ranked

17245  
citing authors

#	ARTICLE	IF	CITATIONS
1	THE ROLE OF ROOT EXUDATES IN RHIZOSPHERE INTERACTIONS WITH PLANTS AND OTHER ORGANISMS. Annual Review of Plant Biology, 2006, 57, 233-266.	18.7	3,654
2	Crosstalk between Microbiota-Derived Short-Chain Fatty Acids and Intestinal Epithelial HIF Augments Tissue Barrier Function. Cell Host and Microbe, 2015, 17, 662-671.	11.0	1,162
3	How plants communicate using the underground information superhighway. Trends in Plant Science, 2004, 9, 26-32.	8.8	735
4	The gut microbiota at the intersection of diet and human health. Science, 2018, 362, 776-780.	12.6	683
5	Biochemical and physiological mechanisms mediated by allelochemicals. Current Opinion in Plant Biology, 2004, 7, 472-479.	7.1	578
6	Stool Microbiome and Metabolome Differences between Colorectal Cancer Patients and Healthy Adults. PLoS ONE, 2013, 8, e70803.	2.5	547
7	Rhizosphere chemical dialogues: plant-microbe interactions. Current Opinion in Biotechnology, 2009, 20, 642-650.	6.6	513
8	Diet and the development of the human intestinal microbiome. Frontiers in Microbiology, 2014, 5, 494.	3.5	391
9	Harnessing the rhizosphere microbiome through plant breeding and agricultural management. Plant and Soil, 2012, 360, 1-13.	3.7	347
10	Natural selection for resistance to the allelopathic effects of invasive plants. Journal of Ecology, 2005, 93, 576-583.	4.0	217
11	The gut microbiota in infants of obese mothers increases inflammation and susceptibility to NAFLD. Nature Communications, 2018, 9, 4462.	12.8	205
12	Cancer-Promoting Effects of Microbial Dysbiosis. Current Oncology Reports, 2014, 16, 406.	4.0	197
13	SGLT2 inhibition via dapagliflozin improves generalized vascular dysfunction and alters the gut microbiota in type 2 diabetic mice. Cardiovascular Diabetology, 2018, 17, 62.	6.8	178
14	Metabolomics and metabolic pathway networks from human colorectal cancers, adjacent mucosa, and stool. Cancer & Metabolism, 2016, 4, 11.	5.0	177
15	Down Regulation of Virulence Factors of Pseudomonas aeruginosa by Salicylic Acid Attenuates Its Virulence on Arabidopsis thaliana and Caenorhabditis elegans. Infection and Immunity, 2005, 73, 5319-5328.	2.2	173
16	Impact of Edible Cricket Consumption on Gut Microbiota in Healthy Adults, a Double-blind, Randomized Crossover Trial. Scientific Reports, 2018, 8, 10762.	3.3	149
17	Linking dietary patterns with gut microbial composition and function. Gut Microbes, 2017, 8, 113-129.	9.8	137
18	The gut microbiota as a novel regulator of cardiovascular function and disease. Journal of Nutritional Biochemistry, 2018, 56, 1-15.	4.2	122

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19	Alterations in human milk leptin and insulin are associated with early changes in the infant intestinal microbiome. <i>American Journal of Clinical Nutrition</i> , 2016, 103, 1291-1300.	4.7	118
20	Phytotoxic and Antimicrobial Activities of Catechin Derivatives. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 1077-1082.	5.2	109
21	Rice Bran Fermented with <i>Saccharomyces boulardii</i> Generates Novel Metabolite Profiles with Bioactivity. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 1862-1870.	5.2	109
22	PHAGE Study: Effects of Supplemental Bacteriophage Intake on Inflammation and Gut Microbiota in Healthy Adults. <i>Nutrients</i> , 2019, 11, 666.	4.1	108
23	Suppression of the gut microbiome ameliorates age-related arterial dysfunction and oxidative stress in mice. <i>Journal of Physiology</i> , 2019, 597, 2361-2378.	2.9	106
24	Intraspecific and Interspecific Interactions Mediated by a Phytotoxin, (â€“)Catechin, Secreted by the Roots of <i>Centaurea maculosa</i> (Spotted Knapweed). <i>Journal of Chemical Ecology</i> , 2003, 29, 2397-2412.	1.8	89
25	Fermented Foods: Patented Approaches and Formulations for Nutritional Supplementation and Health Promotion. <i>Recent Patents on Food, Nutrition &amp; Agriculture</i> , 2012, 4, 134-140.	0.9	82
26	Fermented <i>Camellia sinensis</i> , Fu Zhuan Tea, regulates hyperlipidemia and transcription factors involved in lipid catabolism. <i>Food Research International</i> , 2011, 44, 2999-3005.	6.2	81
27	Dietary supplementation with rice bran or navy bean alters gut bacterial metabolism in colorectal cancer survivors. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1500905.	3.3	80
28	Pilot Dietary Intervention with Heat-Stabilized Rice Bran Modulates Stool Microbiota and Metabolites in Healthy Adults. <i>Nutrients</i> , 2015, 7, 1282-1300.	4.1	75
29	Oxalate contributes to the resistance of <i>Gaillardia grandiflora</i> and <i>Lupinus sericeus</i> to a phytotoxin produced by <i>Centaurea maculosa</i> . <i>Planta</i> , 2006, 223, 785-795.	3.2	69
30	RAPD-PCR analysis of genetic variation among isolates of <i>Alternaria solani</i> and <i>Alternaria alternata</i> from potato and tomato. <i>Mycologia</i> , 1998, 90, 813-821.	1.9	64
31	Ovariectomy results in differential shifts in gut microbiota in low versus high aerobic capacity rats. <i>Physiological Reports</i> , 2015, 3, e12488.	1.7	64
32	Bacteriophage for Gastrointestinal Health (PHAGE) Study: Evaluating the Safety and Tolerability of Supplemental Bacteriophage Consumption. <i>Journal of the American College of Nutrition</i> , 2019, 38, 68-75.	1.8	63
33	Dietary rice bran promotes resistance to <i>Salmonella enterica</i> serovar Typhimurium colonization in mice. <i>BMC Microbiology</i> , 2012, 12, 71.	3.3	61
34	Suppression of gut dysbiosis reverses Western diet-induced vascular dysfunction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 314, E468-E477.	3.5	61
35	Fuzhuan tea consumption imparts hepatoprotective effects and alters intestinal microbiota in high saturated fat diet-fed rats. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 1213-1220.	3.3	59
36	RAPD-PCR Analysis of Genetic Variation among Isolates of <i>Alternaria solani</i> and <i>Alternaria alternata</i> from Potato and Tomato. <i>Mycologia</i> , 1998, 90, 813.	1.9	57

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37	Antibacterial activity and phytochemical profile of fermented <i>Camellia sinensis</i> (fuzhuan tea). <i>Food Research International</i> , 2013, 53, 945-949.	6.2	51
38	A Randomized Controlled Trial to Increase Navy Bean or Rice Bran Consumption in Colorectal Cancer Survivors. <i>Nutrition and Cancer</i> , 2016, 68, 1269-1280.	2.0	50
39	Negative Effects of Sample Pooling on PCR-Based Estimates of Soil Microbial Richness and Community Structure. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2086-2090.	3.1	46
40	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
41	Phytotoxic polyacetylenes from roots of Russian knapweed ( <i>Acroptilon repens</i> (L.) DC.). <i>Phytochemistry</i> , 2008, 69, 2572-2578.	2.9	36
42	Microgreens: Consumer sensory perception and acceptance of an emerging functional food crop. <i>Journal of Food Science</i> , 2020, 85, 926-935.	3.1	34
43	PHAGE-2 Study: Supplemental Bacteriophages Extend <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BL04 Benefits on Gut Health and Microbiota in Healthy Adults. <i>Nutrients</i> , 2020, 12, 2474.	4.1	33
44	Plant models for animal pathogenesis. <i>Cellular Microbiology</i> , 2005, 7, 315-324.	2.1	29
45	Gut microbiota regulates cardiac ischemic tolerance and aortic stiffness in obesity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H1210-H1220.	3.2	29
46	White Kidney Bean ( <i>Phaseolus Vulgaris</i> L.) Consumption Reduces Fat Accumulation in a Polygenic Mouse Model of Obesity. <i>Nutrients</i> , 2019, 11, 2780.	4.1	29
47	The role of visceral and subcutaneous adipose tissue fatty acid composition in liver pathophysiology associated with NAFLD. <i>Adipocyte</i> , 2015, 4, 101-112.	2.8	28
48	Comparison of Five Oral Cannabidiol Preparations in Adult Humans: Pharmacokinetics, Body Composition, and Heart Rate Variability. <i>Pharmaceuticals</i> , 2021, 14, 35.	3.8	27
49	Re-purposing 16S rRNA gene sequence data from within case paired tumor biopsy and tumor-adjacent biopsy or fecal samples to identify microbial markers for colorectal cancer. <i>PLoS ONE</i> , 2018, 13, e0207002.	2.5	25
50	Global Gene Expression Profiles Suggest an Important Role for Nutrient Acquisition in Early Pathogenesis in a Plant Model of <i>Pseudomonas aeruginosa</i> Infection. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5784-5791.	3.1	23
51	Diet and cancer risk reduction: The role of diet-microbiota interactions and microbial metabolites. <i>Seminars in Cancer Biology</i> , 2021, 70, 53-60.	9.6	23
52	Comprehensive Evaluation of Metabolites and Minerals in 6 Microgreen Species and the Influence of Maturity. <i>Current Developments in Nutrition</i> , 2021, 5, nzaa180.	0.3	23
53	Microbial metabolite indole-3-propionic acid supplementation does not protect mice from the cardiometabolic consequences of a Western diet. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, G51-G62.	3.4	22
54	Evaluation of pharmacokinetics and acute anti-inflammatory potential of two oral cannabidiol preparations in healthy adults. <i>Phytotherapy Research</i> , 2020, 34, 1696-1703.	5.8	22

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55	Examining the Gastrointestinal and Immunomodulatory Effects of the Novel Probiotic <i>Bacillus subtilis</i> DE111. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2453.	4.1	21
56	Transplantation of an obesity-associated human gut microbiota to mice induces vascular dysfunction and glucose intolerance. <i>Gut Microbes</i> , 2021, 13, 1940791.	9.8	20
57	No evidence for root-mediated allelopathy in <i>Centaurea solstitialis</i> , a species in a commonly allelopathic genus. <i>Biological Invasions</i> , 2007, 9, 897-907.	2.4	19
58	Compositional Changes of the High-Fat Diet-Induced Gut Microbiota upon Consumption of Common Pulses. <i>Nutrients</i> , 2021, 13, 3992.	4.1	19
59	<i>Bacillus subtilis</i> DE111 intake may improve blood lipids and endothelial function in healthy adults. <i>Beneficial Microbes</i> , 2020, 11, 621-630.	2.4	18
60	Genotype-Specific Enrichment of 1-Aminocyclopropane-1-Carboxylic Acid Deaminase-Positive Bacteria in Winter Wheat Rhizospheres. <i>Soil Science Society of America Journal</i> , 2017, 81, 796-805.	2.2	17
61	Pulse Crop Effects on Gut Microbial Populations, Intestinal Function, and Adiposity in a Mouse Model of Diet-Induced Obesity. <i>Nutrients</i> , 2020, 12, 593.	4.1	17
62	The Effect of Hops ( <i>Humulus lupulus</i> L.) Extract Supplementation on Weight Gain, Adiposity and Intestinal Function in Ovariectomized Mice. <i>Nutrients</i> , 2019, 11, 3004.	4.1	16
63	Fuzhuan tea reverses arterial stiffening after modest weight gain in mice. <i>Nutrition</i> , 2017, 33, 266-270.	2.4	14
64	Genotype-specific response of winter wheat ( <i>Triticum aestivum</i> L.) to irrigation and inoculation with ACC deaminase bacteria. <i>Rhizosphere</i> , 2018, 8, 1-7.	3.0	13
65	Impact of Red Beetroot Juice on Vascular Endothelial Function and Cardiometabolic Responses to a High-Fat Meal in Middle-Aged/Older Adults with Overweight and Obesity: A Randomized, Double-Blind, Placebo-Controlled, Crossover Trial. <i>Current Developments in Nutrition</i> , 2019, 3, nzz113.	0.3	13
66	Plant-inhabiting Ant Utilizes Chemical Cues for Host Discrimination. <i>Biotropica</i> , 2012, 44, 246-253.	1.6	11
67	Interaction of caffeine with the SOS response pathway in <i>Escherichia coli</i> . <i>Gut Pathogens</i> , 2015, 7, 21.	3.4	9
68	Relandscaping the Gut Microbiota with a Whole Food: Dose-Response Effects to Common Bean. <i>Foods</i> , 2022, 11, 1153.	4.3	9
69	Editorial on "Cancer and the microbiota" published in <i>Science</i> . <i>Annals of Translational Medicine</i> , 2015, 3, 175.	1.7	7
70	Exercise: The Next Frontier in Microbiota Research?. <i>Exercise and Sport Sciences Reviews</i> , 2017, 45, 4-5.	3.0	4
71	Microbial Metabolites in Cancer Promotion or Prevention. <i>Current Cancer Research</i> , 2019, , 317-346.	0.2	4
72	The Gut Microbiota Is Associated with Vascular Function and Blood Pressure Phenotypes in Overweight and Obese Middle-Aged/Older Adults (P21-024-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz041.P21-024-19.	0.3	3

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73	Allelopathy: Full Circle from Phytotoxicity to Mechanisms of Resistance. , 2008, , 105-117.		2
74	Amounts and Botanical Diversity of Dietary Fruits and Vegetables Affect Distinctly the Human Gut Microbiome. Current Developments in Nutrition, 2020, 4, nzaa062_002.	0.3	2
75	Root Exudation and Rhizosphere Biology: Multiple Functions of a Plant Secondary Metabolite. , 2006, , 403-420.		2
76	Fecal metabolome and microflora differences between colorectal cancer patients and healthy adults.. Journal of Clinical Oncology, 2013, 31, 11050-11050.	1.6	2
77	Effect of Common Bean Consumption on the Gut Associated Microbiome in an In Vivo Screening Model for Breast Cancer. , 2020, 61, .		2
78	Phytotoxins Produced by Invasive Weeds and Their Applications in Agriculture and the Restoration of Natural Areas. ACS Symposium Series, 2006, , 99-112.	0.5	1
79	Effect of pulse consumption on obesity and the metagenome. , 0, , .		1
80	Endothelial Dysfunction is Transferable from Humans to Germ-Free Mice via Fecal Microbiota Transplantation. FASEB Journal, 2020, 34, 1-1.	0.5	1
81	Impact of Acute and Chronic Red Beetroot Juice Consumption on Postprandial Endothelial Function and Levels of Nitrate/Nitrite in Plasma and Saliva (P06-113-19). Current Developments in Nutrition, 2019, 3, nzz031.P06-113-19.	0.3	0
82	Cardiometabolic Effects of a Gut Microbial Metabolite of Tryptophan in Western Diet-fed Mice (P21-025-19). Current Developments in Nutrition, 2019, 3, nzz041.P21-025-19.	0.3	0
83	Effects of Red Beetroot Juice and Inorganic Nitrate Supplementation on Oral Bacteria and Nitric Oxide Metabolites in Middle-Aged/Older Adults with Overweight and Obesity. Current Developments in Nutrition, 2020, 4, nzaa045_061.	0.3	0
84	Evaluating the Impact of an Aronia Berry Dietary Supplement on Vascular Endothelial Function and the Gut Microbiota in Healthy Middle-Aged/Older Adults: Study Protocol. Current Developments in Nutrition, 2020, 4, nzaa065_009.	0.3	0
85	Nutritional Regulation of the Microbiota - Can One Meal Change a Trillion Lives?. , 2021, , 532-541.		0
86	Bacterial Secretions. Signaling and Communication in Plants, 2012, , 251-267.	0.7	0
87	Protective effects of Fuzhuan Tea against high saturated fat diet-induced inflammation and liver injury in Wistar rats. FASEB Journal, 2013, 27, lb282.	0.5	0
88	Increasing dietary rice bran consumption for colorectal cancer prevention and control.. Journal of Clinical Oncology, 2013, 31, 1558-1558.	1.6	0
89	Microbe-Host Crosstalk between Short-Chain Fatty Acids and Intestinal Epithelial HIF Provides a New Mechanism to Augment Tissue Barrier Function. FASEB Journal, 2015, 29, 282.6.	0.5	0
90	Identifying Candidates for Novel Customized Probiotics Targeting Obesity-Related Vascular Dysfunction. FASEB Journal, 2020, 34, 1-1.	0.5	0

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91	Abstract 11575: The Effects of Tlr4 Deletion on Aortic Stiffness and Gut Microbiota Composition in High Fat Diet-Fed Mice. Circulation, 2021, 144, .	1.6	0
92	Root Exudation and Rhizosphere Biology: Multiple Functions of a Plant Secondary Metabolite. , 0, , 403-420.		0
93	Tea. , 2022, , 141-155.		0
94	Contribution of the Microbiome to Western Dietâ€Induced Gene Expression Changes in the Intestine and Vasculature. FASEB Journal, 2022, 36, .	0.5	0
95	A 24â€Hour Fast Increases Liver Cytotoxic T Cell Populations in Genetically Obese Mice: A Preliminary Study. FASEB Journal, 2022, 36, .	0.5	0
96	Abstract 165: Role of the Gut Microbiome in Obesity-Related Vascular Dysfunction. Circulation Research, 2017, 121, .	4.5	0