# Lawrence A David

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 33 papers | 11,795 citations | 257101 24 h-index | 377514 34 g-index |
| 53 all docs | 53 docs citations | 53 times ranked | 18432 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Diet rapidly and reproducibly alters the human gut microbiome. Nature, 2014, 505, 559-563. | 13.7 | 7,592 |
| 2 | Ecology drives a global network of gene exchange connecting the human microbiome. Nature, 2011, 480, 241-244. | 13.7 | 788 |
| 3 | Host lifestyle affects human microbiota on daily timescales. Genome Biology, 2014, 15, R89. | 13.9 | 735 |
| 4 | Resource Partitioning and Sympatric Differentiation Among Closely Related Bacterioplankton. Science, 2008, 320, 1081-1085. | 6.0 | 472 |
| 5 | Rapid evolutionary innovation during an Archaean genetic expansion. Nature, 2011, 469, 93-96. | 13.7 | 344 |
| 6 | A phylogenetic transform enhances analysis of compositional microbiota data. ELife, 2017, 6, . | 2.8 | 247 |
| 7 | Gut Microbial Succession Follows Acute Secretory Diarrhea in Humans. MBio, 2015, 6, e00381-15. | 1.8 | 150 |
| 8 | Antibiotic-induced changes in the microbiota disrupt redox dynamics in the gut. ELife, 2018, 7, . | 2.8 | 121 |
| 9 | Quantification of Cell Edge Velocities and Traction Forces Reveals Distinct Motility Modules during Cell Spreading. PLoS ONE, 2008, 3, e3735. | 1.1 | 112 |
| 10 | Microbial nitrogen limitation in the mammalian large intestine. Nature Microbiology, 2018, 3, 1441-1450. | 5.9 | 107 |
| 11 | Phylogenetic factorization of compositional data yields lineage-level associations in microbiome datasets. PeerJ, 2017, 5, e2969. | 0.9 | 105 |
| 12 | Ontogenetic Differences in Dietary Fat Influence Microbiota Assembly in the Zebrafish Gut. MBio, 2015, 6, e00687-15. | 1.8 | 101 |
| 13 | Looking for Darwin's footprints in the microbial world. Trends in Microbiology, 2009, 17, 196-204. | 3.5 | 94 |
| 14 | Naught all zeros in sequence count data are the same. Computational and Structural Biotechnology Journal, 2020, 18, 2789-2798. | 1.9 | 87 |
| 15 | Metapopulation structure of Vibrionaceae among coastal marine invertebrates. Environmental Microbiology, 2011, 13, 265-275. | 1.8 | 76 |
| 16 | Human Gut Microbiota Predicts Susceptibility to Vibrio cholerae Infection. Journal of Infectious Diseases, 2018, 218, 645-653. | 1.9 | 60 |
| 17 | Genotypic and Phenotypic Diversity among Human Isolates of Akkermansia muciniphila. MBio, 2021, 12, . | 1.8 | 60 |
| 18 | Dynamic linear models guide design and analysis of microbiota studies within artificial human guts. Microbiome, 2018, 6, 202. | 4.9 | 54 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Phylofactorization: a graph partitioning algorithm to identify phylogenetic scales of ecological data. Ecological Monographs, 2019, 89, e01353. | 2.4 | 52 |
| 20 | Reproducibility of Vibrionaceae population structure in coastal bacterioplankton. ISME Journal, 2013, 7, 509-519. | 4.4 | 50 |
| 21 | Short-Chain Fatty Acid Production by Gut Microbiota from Children with Obesity Differs According to Prebiotic Choice and Bacterial Community Composition. MBio, 2020, 11, . | 1.8 | 49 |
| 22 | Measuring and mitigating PCR bias in microbiota datasets. PLoS Computational Biology, 2021, 17, e1009113. | 1.5 | 43 |
| 23 | Conserved anti-inflammatory effects and sensing of butyrate in zebrafish. Gut Microbes, 2020, 12, 1824563. | 4.3 | 41 |
| 24 | Interindividual Variation in Dietary Carbohydrate Metabolism by Gut Bacteria Revealed with Droplet Microfluidic Culture. MSystems, 2020, 5, . | 1.7 | 34 |
| 25 | Plant community and soil conditions individually affect soil microbial community assembly in experimental mesocosms. Ecology and Evolution, 2018, 8, 1196-1205. | 0.8 | 31 |
| 26 | Predicting Vibrio cholerae Infection and Disease Severity Using Metagenomics in a Prospective Cohort Study. Journal of Infectious Diseases, 2021, 223, 342-351. | 1.9 | 25 |
| 27 | Modulation of microbial community dynamics by spatial partitioning. Nature Chemical Biology, 2022, 18, 394-402. | 3.9 | 23 |
| 28 | The Pediatric Obesity Microbiome and Metabolism Study (POMMS): Methods, Baseline Data, and Early Insights. Obesity, 2021, 29, 569-578. | 1.5 | 19 |
| 29 | Using DNA Metabarcoding To Evaluate the Plant Component of Human Diets: a Proof of Concept. MSystems, 2019, 4, . | 1.7 | 18 |
| 30 | The emergence of microbiome centres. Nature Microbiology, 2020, 5, 2-3. | 5.9 | 13 |
| 31 | Benchmarking of Dynamic Bayesian Networks Inferred from Stochastic Time-Series Data. Annals of the New York Academy of Sciences, 2007, 1115, 90-101. | 1.8 | 11 |
| 32 | Conceptual Exchanges for Understanding Free-Living and Host-Associated Microbiomes. MSystems, 2022, 7, e0137421. | 1.7 | 3 |
| 33 | Toward Personalized Control of Human Gut Bacterial Communities. MSystems, 2018, 3, . | 1.7 | 2 |