

Jonathan A. Eisen Publications

Journal and Book Chapter Publications

2024

- Morel-Letelier I, Yuen B, Kück AC, Camacho-García YE, Petersen JM, Lara M, Leray M, **Eisen JA**, Osvatic JT, Gros O, Wilkins LGE. 2024. Adaptations to nitrogen availability drive ecological divergence of chemosynthetic symbionts. *PLOS Genetics* 20: e1011295. DOI: 10.1371/journal.pgen.1011295.
- **Ettinger CL**, **Eisen JA**. 2024. Phoronids and their tubes harbor distinct microbiomes compared to surrounding sediment. bioRxiv.

2023

- **Rojas CA**, Marks SL, Borrás E, Lesea H, McCartney MM, Coil DA, Davis CE, **Eisen JA**. 2023. Characterization of the microbiome and volatile compounds in anal gland secretions from domestic cats (*Felis catus*) using metagenomics and metabolomics. *Scientific Reports* 13: 19382. DOI: 10.1038/s41598-023-45997-1.
- Rojas CA, Entrolezo Z, Jarett JK, Jospin G, Kingsbury DD, Martin A, **Eisen JA**, Ganz HH. 2023. Microbiome responses to fecal microbiota transplantation in cats with chronic digestive issues. *Veterinary Sciences* 10: 561. DOI: 10.3390/vetsci10090561.
- Yu L, Khachatryan M, Matschiner M, Healey A, Bauer D, Cameron B, Cusson M, Emmett Duffy J, Joel Fodrie F, Gill D, Grimwood J, Hori M, Hovel K, Hughes AR, Jahnke M, Jenkins J, Keymanesh K, Kruschel C, Mamidi S, Menning DM, Moksnes PO, Nakaoka M, Pennacchio C, Reiss K, Rossi F, Ruesink JL, Schultz ST, Talbot S, Unsworth R, Ward DH, Dagan T, Schmutz J, **Eisen JA**, Stachowicz JJ, Van De Peer Y, Olsen JL, Reusch TBH. 2023. Ocean current patterns drive the worldwide colonization of eelgrass (*Zostera marina*). *Nature Plants* 9: 1207–1220. DOI: 10.1038/s41477-023-01464-3.
- **De León ME**, Wilson HS, Jospin G, **Eisen JA**. 2023. Genome sequencing and multifaceted taxonomic analysis of novel strains of violacein producing bacteria and non violacein producing close relatives. *Microbial Genomes* 9: 000971. DOI: 10.1099/mgen.0.000971.
- Perry LM, Cruz SM, Kleber KT, Judge SJ, Darrow MA, Jones LB, Basmaci UN, Joshi N, Settles ML, Durbin-Johnson BP, Gingrich AA, Monjazeb AM, Carr-Ascher J, Thorpe SW, Murphy WJ, **Eisen JA**, Canter RJ. 2023. Human soft tissue sarcomas harbor an intratumoral viral microbiome which is linked with natural killer cell infiltrate and prognosis. *Journal for Immunotherapy of Cancer* 11: e004285. DOI: 10.1136/jitc-2021-004285.
- Kennedy KM, de Goffau MC, Perez-Muñoz ME, Arrieta MC, Bäckhed F, Bork P, Braun T, Bushman FD, Dore J, de Vos WM, Earl AM, **Eisen JA**, Elovitz MA, Ganai-Vonarburg SC, Gänzle MG, Garrett WS, Hall LJ, Hornef MW, Huttenhower C, Konnikova L, Lebeer S, Macpherson AJ, Massey RC, McHardy AC, Koren O, Lawley TD, Ley RE, O'Mahony L, O'Toole PW, Pamer EG, Parkhill J, Raes J, Rattei T, Salonen A, Segal E, Segata N, Shanahan F, Sloboda DM, Smith GCS, Sokol H, Spector TD, Surette MG, Tannock GW, Walker AW, Yassour M, Walter J. 2023. Questioning the fetal microbiome and pitfalls of low biomass microbial studies. *Nature Microbiology* 613: 639-649. DOI: 10.1038/s41586-022-05546-8.
- **Rojas CA**, Gardy J, **Eisen JA**, Ganz HH. 2023. Recovery of 52 bacterial genomes from the fecal microbiome of the domestic cat (*Felis catus*) using Hi-C proximity ligation and shotgun metagenomics. *Microbiology Resource Announcements* 12: e00601-23. DOI: 10.1128/MRA.00601-23.

- Tran MT, Seuylemezian A, **Wright A**, Coil D, **Eisen JA**, Guan L. 2023. Draft genome sequences of spacecraft-associated microbes isolated from six NASA missions. *Microbiology Resource Announcements* 12: e01011-22. DOI: 10.1128/mra.01011-22.

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- Kleber KT, Iranpur KR, Perry LM, Cruz SM, Razmara AM, Culp WTN, Kent MS, **Eisen JA**, Rebhun RB, Canter RJ. 2022. Using the canine microbiome to bridge translation of cancer immunotherapy from pre-clinical murine models to human clinical trials. *Frontiers in Immunology* 13: 983344. DOI: 10.3389/fimmu.2022.983344.
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- Zuniga-Montanez R, Coil DA, **Eisen JA**, Pechacek R, Guerrero RG, Kim M, Shapiro K, Bischel H. 2022. The challenge of SARS-CoV-2 environmental monitoring in schools using floors and portable HEPA filtration units: Fresh or relic RNA?. *PLOS ONE* 17: e0267212. DOI: 10.1371/journal.pone.0267212.
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- Osvatic JT, **Wilkins LGE**, Leibrecht L, Leray M, Zauner S, Polzin J, Camacho Y, Gros O, van Gils JA, **Eisen JA**, Petersen JM, Yuen B. 2021. Global biogeography of chemosynthetic symbionts reveals both localized and globally-distributed symbiont groups. *Proceedings of the National Academy of Sciences USA* 118: e2104378118. DOI: 10.1073/pnas.2104378118.
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