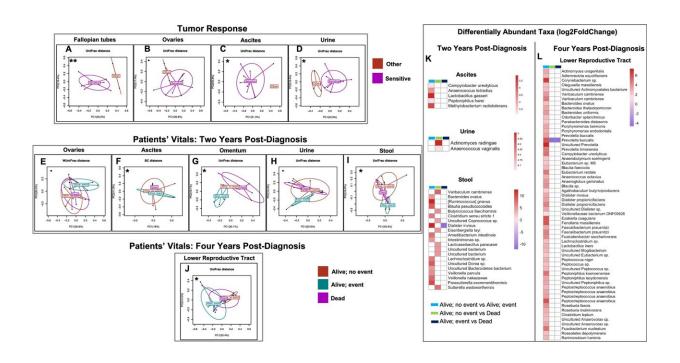


Researchers link ovarian cancer to bacteria colonization in microbiome

January 17 2023, by Susan Murphy



β-diversities measures were compared. For β-diversity, Bray–Curtis (BC), unweighted, and weighted, UniFrac distance metrics were reported. The most significant metric is shown in each ordination plot. (**A–D**) Bacterial community β-diversity between OC patients with sensitive vs other (resistant/refractory) tumor response. Fallopian tube, (**A**) β-diversity: sensitive vs other (p = 0.003). Ovaries, (**B**) β-diversity: sensitive vs other (p = 0.073). Ascites, (**C**) β-diversity: sensitive vs other (p = 0.021). Urine, (**D**) β-diversity: sensitive vs other (p = 0.015). (**E–I**) Bacterial community β-diversity among OC patients with different status two years post-diagnosis. Ovaries, (**E**) β-diversity: Alive, no event vs alive, event (p = 0.073), Alive, no event vs dead (p = 0.761), Alive, event vs dead. (p = 0.437). Ascites, (**F**) β-diversity: Alive, no event vs dead (p = 0.573), Alive, no event vs dead (p = 0.029), Alive, event vs dead (p = 0.250). Omentum,



(G) β-diversity: Alive, no event vs alive, event (p = 0.273), Alive, no event vs dead (p = 0.350), Alive, event vs dead (p = 0.010). Urine, (H) β-diversity: Alive, no event vs alive, event (p = 0.088), Alive, no event vs dead (p = 0.347), Alive, event vs dead (p = 0.356). Stool, (I) β-diversity: Alive, no event vs alive, event (p = 0.063), Alive, no event vs dead (p = 0.601), Alive, event vs dead (p = 0.050). (J) Bacterial community β-diversity among OC patients with different status four years post-diagnosis. Lower reproductive tract (cervix and vagina), (J) β-diversity: Alive, no event vs alive, event (p = 0.017), Alive, no event vs dead (p = 0.568), Alive, event vs dead (p = 0.058). (K–L) Heatmaps showing the effect size (Log₂ Fold Change) of the differentially abundant microbial taxa. White boxes reflect no fold change at FDR

Citation: Researchers link ovarian cancer to bacteria colonization in microbiome (2023, January 17) retrieved 26 April 2024 from https://medicalxpress.com/news/2023-01-link-ovarian-cancer-bacteria-colonization.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.