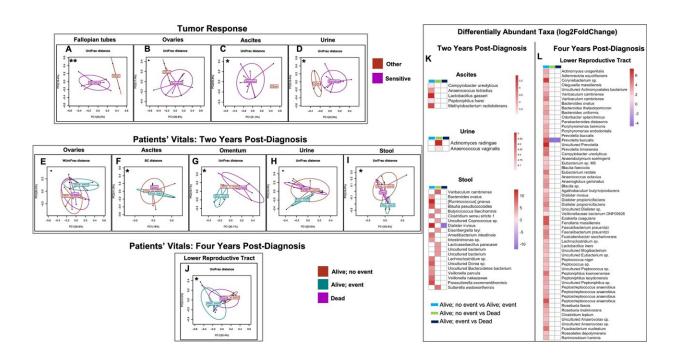


Researchers link ovarian cancer to bacteria colonization in microbiome

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

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