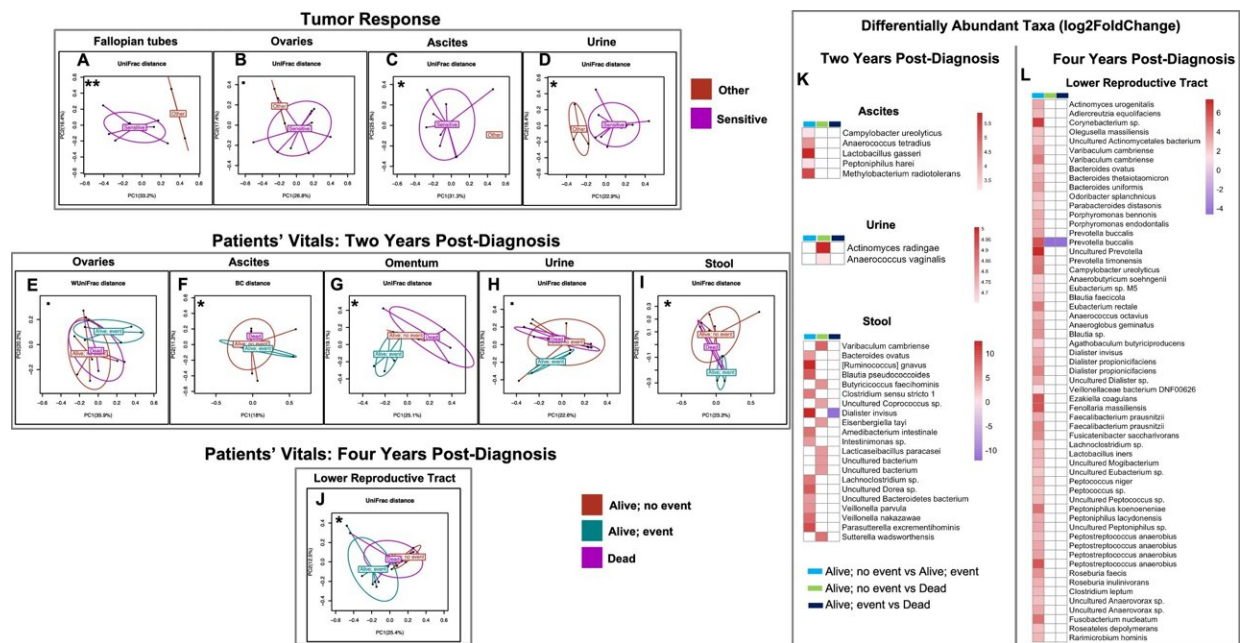


Researchers link ovarian cancer to bacteria colonization in microbiome

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 alive, event ($p = 0.573$), 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 (Log_2 Fold Change) of the differentially abundant microbial taxa. White boxes reflect no fold change at FDR

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