Intestinal Permeability

Gut Microbiome

Proposed Mechanism

Endocrine-targeted therapy and diet interactions on gut permeability and the microbiome

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Figure 1 FITC dextran permeability assay, plasma LPS relative concentrations determined by ELISA, and Vevo Ultrasound Imaging revealed trends in intestinal permeability with diet and oral endocrine therapy treatment. n=9-10 per group

Oral endocrine therapies in conjunction with diet may affect intestinal permeability

Figure 2: Proportional abundance of gut microbiota at the Phylum level of classification. P<0.05 n=9-10 per group

Western diet fed animal display decreased Bacteroidetes to Firmicutes ratio.

Figure 3: Administration of tamoxifen citrate increased probiotic gut populations in Western diet fed animals

P<0.05 n=9-10 per group

Tamoxifen citrate administration in Western diet-fed animals led to an increase in gut L. johnsonii and L. lactis abundance.

Funding: Department of Defense Breast Cancer Research Program Breakthrough Award Level 2 (W81XWH-20-1-0014 to KLC)