“The Role of Arginine Availability in Colitis and Colitis-Associated Carcinoma”

A presentation by

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Summary: L-arginine (L-Arg) is a semi-essential amino acid that can be depleted under conditions of metabolic stress. Cellular uptake of L-Arg is mediated by cationic amino acid transporter (CAT) proteins, and CAT2 is the inducible form. We have reported that L-Arg supplementation is beneficial in dextran sulfate sodium (DSS) colitis, that L-Arg uptake by CAT2 is essential for colonic epithelial restitution in vitro, and that CAT2-deficient mice exhibit exacerbated acute DSS colitis that is associated with increased macrophage infiltration and Th2 vs Th1 cytokine responses. CAT2 deletion leads to increased tumorigenesis in the azoxymethane (AOM)-DSS model via alterations in inflammation and immunologic surveillance.

Dr. Coburn is Assistant Professor and Staff Physician at the Veterans Affairs Tennessee Valley Health Care System, Vanderbilt University School of Medicine

Junior Investigators Luncheon 12 pm - 1 pm
Young GI investigators are invited to join Dr. Coburn for lunch at BCM in the Cullen Cafeteria Conference Room A


THURSDAY, MAR 3
4:00 PM
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