DDC WEEKLY GI RESEARCH FORUM

Using Novel Approaches to Identify New Pathways and Treatment Targets for IBD

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About this seminar: This talk will focus on 2 projects: 1) examining CCL11 in mouse models of colitis and colitis-associated carcinogenesis and 2) creating a Gut Cell Atlas for Crohn's disease. We have previously shown that CCL11 (also known as eotaxin-1), a chemoattractant for eosinophils, is increased in serum and colonic tissue of ulcerative colitis patients and is also increased in the serum of Crohn's patients. We have worked to define the role of CCL11 in the pathogenesis of IBD using murine models of colitis and colon tumorigenesis. In addition, we are involved in creating a Gut Cell Atlas focused on single-cell RNA-sequencing and spatial landscape alterations in Crohn's disease patients versus healthy controls to provide new insights into disease pathogenesis and therapeutic strategies. A mix of published and unpublished work will be presented.

References: **(1)** Coburn LA, et al. High-throughput multi-analyte luminex profiling implicates eotaxin-1 in ulcerative colitis. PLoS ONE 8(12):e82300. PMCID: PMC3867379. **(2)** Scoville EA, et al. Serum polyunsaturated fatty acids correlate with serum cytokines and clinical disease activity in Crohn's disease. Sci Rep, 9(1):2882. PMCID: PMC6393448.

SEPT. 16 • 4:00 PM

https://tinyurl.com/y5rd2uut

Meeting ID: 951 0349 9512
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