

“Biomaterials and the gut microbiome - Paving the way for novel therapeutic”

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Dr. Erika Cyphert is a postdoctoral fellow at Cornell University (PI: Christopher Hernandez) studying the influence of the gut microbiome on bone. She completed her PhD in Biomedical Engineering at Case Western Reserve University in 2020 (PI: Horst von Recum) focused on drug delivery and biomaterials. Her dissertation was focused on the development of an improved antibiotic delivery system for treatment of periprosthetic joint infections resulting from total knee and hip joint arthroplasties. During her graduate studies, Dr. Cyphert was an NSF GRFP fellow, recipient of a Fulbright Research Fellowship to Poland, and Whitaker Foundation Grant to Japan.

ABSTRACT

This presentation will discuss how drug delivery systems target the gut microbiome and can be leveraged to address a number of diseases (e.g. musculoskeletal, cancer, etc.). Specifically, in vivo and computational microbiome models that identify novel therapeutic targets and assist in the design of drug delivery systems will be discussed.

Thursday, March 31st
3:15 PM – 4:00 PM

Presented via Zoom: <https://go.unc.edu/o5SZa>