

“ The TMC Digestive Diseases Center Gastrointestinal Experimental Model Systems (GEMS) Organoid Core ”

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About this seminar: The Texas Medical Center Digestive Disease Center Genetically Engineered Model Systems (GEMS) Core is a full service core providing cutting edge organoids and gnotobiotic models systems to address important questions surrounding GI injury, infection, and metabolism. The human organoid models support exciting scientific developments while reducing cost burden and increasing efficiency and time savings. Recent work demonstrates the feasibility of connecting human small intestinal and liver organoids to model enterohepatic portal signaling pathways providing a pathway to development of personalized medicine based treatments and therapies through human body on a chip models.

References: **1.** Blutt SE, Estes MK. Organoid Models for Infectious Disease. Annu Rev Med. 2022 Jan 27;73:167-182. doi: 10.1146/annurev-med-042320-023055. Epub 2021 Oct 13. PMID: 34644153; PMCID: PMC8887824. **2.** Blutt SE, Crawford SE, et al. Use of human tissue stem cell-derived organoid cultures to model enterohepatic circulation. Am J Physiol Gastrointest Liver Physiol. 2021 Sep 1;321(3):G270-G279. doi: 10.1152/ajpgi.00177.2021. Epub 2021 Jul 21. PMID: 34288725; PMCID: PMC8461792. **3.** Blutt SE, Klein OD, Donowitz M, et al. Use of organoids to study regenerative responses to intestinal damage. Am J Physiol Gastrointest Liver Physiol. 2019 Dec 1;317(6):G845-G852. doi: 10.1152/ajpgi.00346.2018. Epub 2019 Oct 7. PMID: 31589468; PMCID: PMC7132322.

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