"Developing a functional tissue-engineered intestine for children with intestinal failure"

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Intestinal failure is a devastating disease for a growing number of children. Contemporary management has reduced mortality considerably; but morbidity remains significant and there is a desperate need for more effective therapies. Tissue-engineered intestine is a promising solution; however, complex intestinal functions have yet to be confirmed in existing human intestinal organoid (HIO)-derived tissue-engineered intestine models. This seminar will review recent work from my laboratory in the HIO model, specifically: HIO epithelial barrier function, sex as a biological variable in HIO development, and optimizing the incorporation of an enteric nervous system into HIOs.


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