

Stem & PRogenitor Cell INterest GRoup

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“Neurovascular modeling and biological discovery with human iPSCs”

Human blood-brain barrier (BBB) models are highly desirable for applications in drug discovery and disease modeling but have historically been limited by a lack of quality sources of brain endothelial cells. In this talk, I will detail my group's ongoing efforts to create a human BBB model from induced pluripotent stem cells (iPSCs) that faithfully represents the qualities of the BBB *in vivo*. I will also provide examples for how we are using our differentiation schemes to determine the molecular underpinnings of BBB function and how we are incorporating iPSC-derived brain endothelial cells into engineered tissue constructs to create more complex human neurovascular models.



9:00 am – 9455 MRB IV

Refreshments provided

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