

JHU BIOLOGY DEPARTMENT SPECIAL SEMINAR

Mechanisms of angle development and congenital glaucoma

Guest Speaker

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Host: Rejji Kuruvilla

Abstract:

Increased intraocular pressure (IOP) is a major risk factor for glaucoma. Drainage structures in the eye (Schlemm's canal and trabecular meshwork) regulate IOP. In several cases of glaucoma and especially early-onset glaucoma, the drainage structures are affected. To address this, we need to understand the developmental genetics of Schlemm's canal and trabecular meshwork. Using a mouse model of early-onset glaucoma and single cell transcriptomics, I will provide an understanding of how drainage structures develop. I will discuss some mechanisms through which abnormalities in drainage tissue cause early-onset glaucoma. A mechanistic understanding will lead to the development of new treatment targets for early-onset glaucoma.



Tuesday, January 17th, 2023
4pm - Mudd 100