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Keywords: [vcscb](#) [cdb/vcscb seminar](#)

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Meeting Details

Start Date / Time	October 28, 2019 at 12:15 PM
End Date / Time	October 28, 2019 at 1:15 PM
Duration	1 hour(s)
Location	1220 MRB III
Presenter Name	Cathy Mendelson, Ph.D.
Presentation Title	Genetic pathways regulating urothelial specification and bladder cancer
Status	This meeting has already occurred

Meeting Agenda/Notes

We have used mouse models to study the normal functions of urothelial cells as well as the molecular events that lead to bladder cancer. We find that Pparg, a nuclear receptor family member, is an important regulator that promotes differentiation of "luminal" cell types, and prevents squamous metaplasia. Pparg CNVs in humans are associated with Papillary subtype of urothelial carcinoma. We find that excess Pparg signaling in mouse models, induces urothelial carcinoma that can also promote urothelial carcinoma. Our goal is now to define the molecular and metabolic pathways controlled by Pparg, to better understand urothelial homeostasis and the events that lead to bladder cancer.