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Keywords: [VCSCB](#) [SPRING](#) [seminar](#)

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## Meeting Details

Start Date / Time	March 13, 2019 at 9:00 AM
End Date / Time	March 13, 2019 at 10:00 AM
Duration	1 hour(s)
Location	9455 MRB IV
Presenter Name	Michelle Southard-Smith, Ph.D.
Presentation Title	Multi-pronged approaches for defining the effects of 5-HT signaling on development of autonomic neural progenitors in the lower urinary tract
Status	This meeting has already occurred

## Meeting Agenda/Notes

Our group began investigating signaling pathways expressed within sacral neural crest progenitors as a means to identify genes that are essential for development of autonomic pelvic ganglia neurons. Neurons within pelvic ganglia play an essential role in regulating bladder contractility and relatively little is known about the processes that regulate their development. In my talk I'll present an overview of how we moved from transcriptional profiling of developing pelvic ganglia to investigating one particular molecule, the type 3A serotonin receptor 5-HT<sub>3A</sub>, and our progress in determining 5HT<sub>3A</sub>'s roles in development of autonomic neuronal progenitors. During the course of our studies other groups have shown that Ca<sup>2+</sup>-permeable 5HT<sub>3A</sub> receptors function to modulate postnatal neuroblast migration in the brain (Garcia-Gonzalez et al., 2017 Neuron). I'll relate this finding to our studies and the future directions of our work.

## Attachment

 [2019ECBVCSCBSymposiumFlyer.pdf](#) - Added on March 6, 2019 at 11:30 AM by Pam Utz