

WEEKLY GI RESEARCH WEBINAR

**"Adventures in
enteric neuroscience
– identifying circuits
and function"**

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Virtually all gastrointestinal behaviors depend on proper functioning of the enteric nervous system, but somewhat surprisingly we still know remarkably little about the enteric neural circuits and how they contribute to the functional control of basic gastrointestinal behaviors. This talk will summarize recent transcriptomic studies in the context of the past literature and recent published and unpublished functional and neuroanatomical data that are beginning to put some shape to enteric neural circuits and their role in the digestive process.

References: (1) Morarach et al (2021) Diversification of molecularly defined myenteric neuron classes revealed by single-cell RNA sequencing *Nature Neuroscience* 24, 34-36 DOI 10.1038/s41593-020-00736-x. (2) WRIGHT et al (2021) scRNA-sequencing reveals new enteric nervous system roles for GDNF, NRTN, and TBX3. *CellMolGastrHep* doi:10.1016/j.jcmgh.2020.12.014. (3) FOONG et al (2014) Properties of cholinergic and non-cholinergic submucosal neurons along the mouse colon. *JPhysiol* 592, 777-793

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