

HESS LAB HIGHLIGHTS

Publications

- Moehle et al., Discovery of the first selective M₄ muscarinic acetylcholine receptor antagonists with *in vivo* anti-parkinsonian and anti-dystonic efficacy, *ACS Pharmacology and Translational Science*,
- Downs et al, Blockade of M₄ muscarinic receptors on striatal cholinergic interneurons normalizes striatal dopamine release in a mouse model of DYT1 dystonia, *Neurobiology of Disease*
- Downs et al., Cell intrinsic effects of torsinA(Δ E) disrupt dopamine release in a mouse model of DYT1-TOR1A dystonia, *Neurobiology of Disease*
- Briscione et al. Differential expression of striatal proteins in a mouse model of DOPA-responsive dystonia reveals shared mechanisms among dystonic disorders, *Molecular Genetics and Metabolism*

Grants

- Parkinson's Foundation George G. Kaufman Impact Award, Striatal sex differences in Parkinson's disease
- R56/R01 Neuronal mechanisms underlying sex differences in dystonia

New PhDs!

- Tony Downs** (MSP Scholar of the Year, 2020), Postdoc at UNC
- Kaitlyn Roman** (NS), Consultant for Clearview, Boston, MA

Established a new Emory Integrated Core Facility

- HPLC Bioanalytical Core, **Rong Fu**, Ph.D. Scientific Director

Lab Heroes and special thanks

- Dr. **Xueliang Fan** and **Christine Donsante** for their incredible work throughout COVID

Kukar Lab Highlights

