Glycolysis and Parkinson's Disease

June 8

Tuesday, 12:30pm

Online Webinar

For Researchers



Speaker: Nandakumar Narayanan M.D., Ph.D.

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Burke Neurological Institute

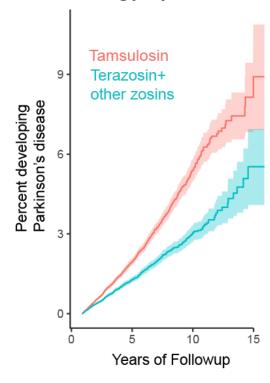
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Abstract

I will review how our work mapping circuits of cognitive control in Parkinson's disease might lead to targeted biomarkers and interventions. Next, I will describe our new collaborative efforts focused on glycolysis and

metabolism in Parkinson's disease. I will discuss our recent evidence from in vitro models, cell lines, animal models, and large retrospective databases describing how repurposed drugs that enhance glycolysis might lead to diseasemodifying therapies for Parkinson's disease.



- **1.** Zhang Q, Weber MA, **Medial prefrontal cortex and the temporal control of action.** Narayanan NS.Int Rev Neurobiol. 2021:158:421-441.
- 2. Singh A, Cole RC, Espinoza AI, Evans A, Cao S, Cavanagh JF, Narayanan NS. Timing variability and midfrontal ~4 Hz rhythms correlate with cognition in Parkinson's disease. NPJ Parkinsons Dis. 2021 Feb 15;7(1):14. doi: 10.1038/s41531-021-00158-x.PMID: 33589640
- **3.** Simmering JE, Welsh MJ, Liu L, Narayanan NS, Pottegård A. **Association of Glycolysis-Enhancing α-1 Blockers With Risk of Developing Parkinson Disease.** JAMA Neurol. 2021 Apr 1;78(4):407-413. doi: 10.1001/jamaneurol.2020.5157. PMID: 33523098



