Worthington Support

On-demand NEW Educational Webinar
Neuronal Cell Isolation from Rodent Peripheral and Central Nervous Systems
Aired November 2025

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In this webinar, Roopa Ravichandar, PhD, and Sam Faraguna of the University of Texas at Austin shared their research on protocols for isolating and culturing neuronal cells.

They will discussed how various methods support studies of neuronal excitability during nervous system development.

Program highlights included dissociation and immunopanning protocols of dorsal root ganglion neurons and a demonstration of how retinal ganglion cells are a powerful model for investigating factors that regulate neuronal electrical properties during eye development. The session featured practical guidance on effective isolation techniques using immunopanning to obtain highly purified neuronal cultures.

Key Learning Objectives:

- **Methods to isolate rat-derived dorsal root ganglion cells.**
- **Optimization of isolating pure retinal ganglion cells from rat-derived retinal tissue.**
- **Functional applications of using these neuronal cell types to study neuronal excitability.**

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