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Brief abstract for RISE website:

Transcription factors are very important for the development of the nervous system. These molecules decide neuronal differentiation, migration and connections. Nonetheless little is known about the roles these molecules have once the nervous system is set. It is in my interest to learn what is the role of the transcription factor *gooseberry* (*gsb*), a *pax3/pax7* homolog, in the fully developed *Drosophila* Neuromuscular Junction. Specifically, I want to learn if *gsb* has a role in important synaptic processes such as growth, stability and plasticity. Findings related to these synaptic processes can help us understand in more detail neurodegenerative disorders.