

## **Abstract**

Morphogens are signalling molecules with prominent effects in the development of an organism. Morphogens form a long range concentration gradient by diffusing from their source (Tabata and Takei, 2004). Fate of a cell responding to a particular morphogen depends upon its localization along the concentration gradient (Charron and Tessier-Lavigne, 2007). Recent findings suggest that along with their role in development, morphogens also play a role in axon development and guidance during development of the nervous system (Sanchez-Camacho and Bovolenta, 2009). This project aims to study and find out the role of DAF-7, a TGF-beta family morphogen in modulating synaptic transmission at *C. elegans* neuromuscular junction. of