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Development of a two photon microscope for tracking *Drosophila* larvae DOYCHO KARAGYOZOV, MIRNA MIHOVILOVIC SKANATA, MARC GERSHOW, New York Univ NYU — Current in vivo methods for measuring neural activity in *Drosophila* larva require immobilization of the animal. Although we can record neural signals while stimulating the sensory organs, we cannot read the behavioral output because we have prevented the animal from moving. Many research questions cannot be answered without observation of neural activity in behaving (freely-moving) animals. Our project aims to develop a tracking microscope that maintains the neurons of interest in the field of view and in focus during the rapid three dimensional motion of a free larva.

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