



**Challenge:** Dr. Nikolaos Giagtzoglou, a postdoc in Dr. Hugo Bellen’s lab at Baylor College of Medicine, needed to learn three *Drosophila* techniques: dissection and recording of the giant fiber system, dissection of ovaries, and backfilling of motor neurons with calcium indicators. These techniques originally debuted in the 1980’s and remain relevant to this day, but Giagtzoglou didn’t know of anyone who was still actively using them.

**Solution:** Giagtzoglou turned to JoVE for help and found exactly what he needed. Video articles from the Augustin Lab at University College of London collectively provided a detailed and comprehensive demonstration needed for Giagtzoglou to execute his new research methods.

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*“Watching a JoVE video article is so much more helpful than reading materials or methods sections, which can have grammatical mistakes, bad syntax, or may just generally be difficult to interpret.”*

-Dr. Nikolaos Giagtzoglou, Baylor College of Medicine

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## Results/Benefits:

- Using JoVE, Dr. Giagtzoglou and his colleagues were able to reduce the time it takes to learn a technique from weeks to days.
- By reducing the number of generations of flies required to get experimental results, the lab saved thousands of dollars in man-hours of researchers and cost of fly upkeep.
- The videos allowed Giagtzoglou to re-watch the technique at his leisure and perfect the methodology: “Even when you meet someone who specializes in a technique, it can be hard to coordinate busy schedules to travel and learn the method.”
- The Bellen Lab has now used 9 different *Drosophila* JoVE videos, either for review of a commonly-used technique or to learn a new technique.