

## Manduca Dissection- first steps



Cut the horn off the posterior end of an anesthetized Manduca larva.



Horn shown by blue arrow.



Cut along entire dorsal midline.



All the way to the other end.



Use dissection pins to pull back and pin down.



Pinning out the posterior end.



Pinning half way done.



Close up view of the Manduca pinned down at the anterior end.



Completely pinned out.



Remove the gut.



Cuts need to be made underneath to free the gut from the connecting tissue.

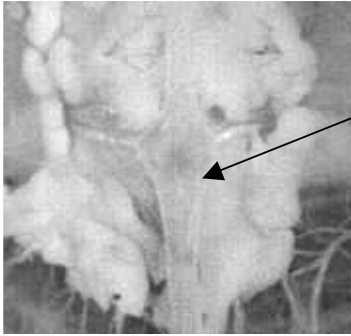


The cutting continues all the way to the anterior end.

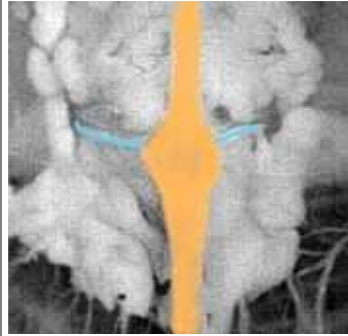


This is the end result of the first dissection. Go to the "[dissection 2](#)" page to see how the nerve cord is removed.

## Dissecting out the nerve cord



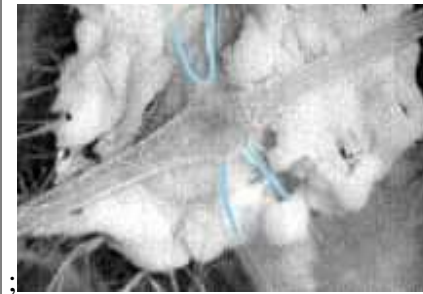
Here is one ganglion sitting on top of some fatty and muscle tissues.



Here the web designer colored the ganglion orange and the easily visible nerve roots blue.



Another ganglion - more nerve roots are visible.



These pictures are from: <http://www.iac-usnc.org/Methods/moth/dissection1.html>

Look for Life cycle posters at:

<http://insected.arizona.edu/manduca/PDFs/Posters.pdf>