

Preparing modified cover slips for laser deletion of individual cells in *Capitella teleta*

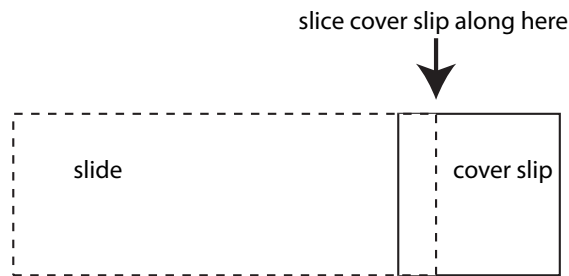
(Emi Yamaguchi and Aldine Amiel, 2012)

Seaver Lab

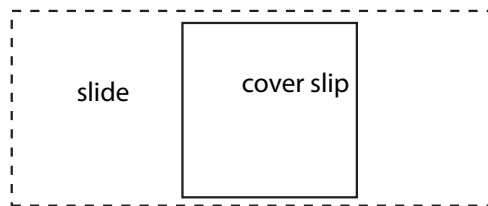
Items needed: #1.5 cover slips (Electron Microscopy Sciences), dental wax, diamond-tipped knife, Rain-X coated slide, forceps.

Heat stir/heat plate to ~3.

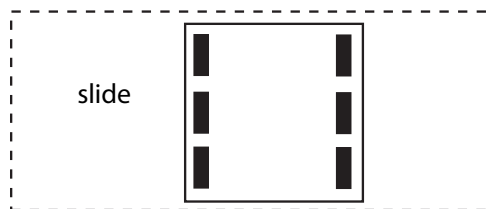
Use the edge of a slide to delineate ~ $\frac{1}{4}$ width of a cover slip. Using the diamond-tipped knife, scrape along the edge of the slide. Cut the cover slip into 4 strips.



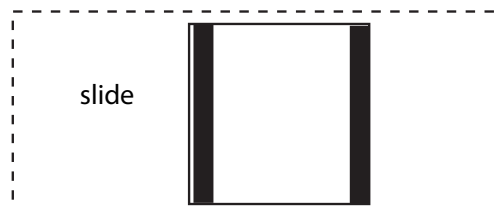
Heat a coated slide with a whole cover slip on top.



Take the corner piece of a slice of dental wax and just barely touch it along the side of the cover slip; do the same to the other side.



Using forceps, gently drop one strip of the cut cover slip onto the melted wax. Do the same on the other side.



Remove slide with cover slip from heating block and press down on glass strips so excess wax bleeds out. Let dry.

When dry, the glass strips should look translucent. Too opaque means too much wax, completely clear means no wax. Somewhere in between is best.

References

Pernet, B., Amiel, A. and Seaver, E. C. (2012). Effects of maternal investment on larvae and juveniles of the annelid *Capitella teleta* determined by experimental reduction of embryo energy content. **Invertebrate Biology** 131(2): 82-95

Amiel, A., Henry, J. Q. and Seaver, E. C. (2013). An organizing activity is required for head patterning and cell fate specification in the polychaete annelid *Capitella teleta*: new insights into cell-cell signaling in Lophotrochozoa. **Developmental Biology** 379: 107-122

Yamaguchi, E., and Seaver, E. C. (2013). The importance of larval eyes in the polychaete *Capitella teleta*: effects of eye deletion on formation of the adult eye. **Invertebrate Biology** 132 (4): 352-367