
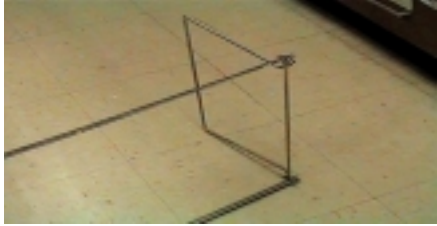






# How-To Build a Simple but Effective Temporary Tissue Culture Hood

	<p>Students enjoy working with plants. To be successful however, they need to be aware of where their hands are as they work, concentrate on aseptic handling, and be careful with sharp scalpels.</p> <p><b>Practice and diligence count!</b></p>	
<h2>Materials</h2>		
<p><b>Screwdrivers</b></p> <p><b>Legal size file folder support</b></p>		
<p><b>Plastic sheeting (2 mil thickness)</b></p> <ul style="list-style-type: none"> <li>➤ Smooth out the sheeting and fold in half with the fold at the front.</li> <li>➤ Drape over the file folder support. Leave some extending over the file wire forming a short curtain.</li> </ul>		
<p><b>Binder or Bear Clips</b></p> <p>Use to hold the plastic sheeting taut over the file folder support frame.</p>		
<p><b>70% Rubbing Alcohol (isopropanol)</b></p> <p>from the supermarket or pharmacy</p>		<p><b>Sprayer-Mister for plants</b></p> <p>Use to spray the alcohol around the inside of hood work-space.</p>

Fral in Biotechnology Center Outreach  
 A Home-Grown Plant Tissue Culture Hood that Works!

## Constructing the Plant Tissue Culture Hood

<p>Assemble the file folder support parts. Have several screwdrivers available for students to use.</p> <p>Turn the assembly on its side so the long bars are in FRONT.</p>		
<p>Lay the folded side of the sheeting over the long bar of the file folder support.</p>		<p>Depending on the layout of your workspace, you may arrange the supports and sheeting differently.</p>
<p>Drape the double sheet so it is even over the file folder support.</p>		<p>The double thickness will help keep the workspace aseptic even if you have pinholes in the sheeting.</p>
<p>Set the fold so it forms a curtain extending about 1/4 the height of the support.</p>		<p>70% rubbing alcohol        + a plant mister/sprayer</p>  <p>After assembling the unit, spray the inside w/the alcohol. Wait 10 minutes before use.</p>
<p></p>	<p>Front View</p>	<p>Side View</p>
<p>Clip the sheeting along the sides with "binder" or "bull" clips to hold the sheeting taut over the frame made by the file folder support.</p> <p>Use the clips to make the curtain tight in front, but DO NOT clip along the top. Clip along the sides only.</p>	