Materials List for:

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URL: https://www.jove.com/video/54943
DOI: doi:10.3791/54943

Materials

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Catalog Number</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binocular light microscope</td>
<td>Leica</td>
<td>M60 CMO</td>
<td></td>
</tr>
<tr>
<td>Scanning transmission electron microscope with spherical aberration</td>
<td>JEOL</td>
<td>ARM200F</td>
<td></td>
</tr>
<tr>
<td>Liquid flow TEM specimen holder</td>
<td>DENS Solutions</td>
<td>Ocean</td>
<td></td>
</tr>
<tr>
<td>Microfluidic syringe pump</td>
<td>Harvard Scientific</td>
<td>PicoPlus</td>
<td></td>
</tr>
<tr>
<td>Plasma cleaner</td>
<td>Gatan</td>
<td>Solarus950</td>
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</tr>
</tbody>
</table>

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<tbody>
<tr>
<td>Acetone, Rotisolv Plus for HPLC</td>
<td>Sigma-Aldrich</td>
<td>7328.2</td>
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<tr>
<td>Water, chromasolv Plus for HPLC</td>
<td>Sigma-Aldrich</td>
<td>34877-2.5L</td>
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<tr>
<td>Ethanol, Rotisolv HPLC grade</td>
<td>Carl Roth</td>
<td>P076.2</td>
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<tr>
<td>Gold colloid citrate stabilized, diameter 30 nm</td>
<td>British-Biocell</td>
<td>EM.GC20</td>
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</tbody>
</table>

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<th>Name</th>
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<tbody>
<tr>
<td>Base silicon microchips with silicon nitride membranes of 50 nm</td>
<td>DENS Solutions</td>
<td></td>
<td>for Ocean system</td>
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<tr>
<td>thickness and dimensions of 20 µm x 0.40 mm</td>
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<tr>
<td>Spacer silicon microchips with silicon nitride membranes of 50 nm</td>
<td>DENS Solutions</td>
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<td>for Ocean system</td>
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<tr>
<td>thickness, dimensions of 20 µm x 0.40 mm, and spacer thickness of 200</td>
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<tr>
<td>nm</td>
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<tr>
<td>Microfluidic peek tubing</td>
<td>Upchurch Scientific</td>
<td>1570</td>
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<tr>
<td>Plastic Replaceable tips Tweezers</td>
<td>ideal-tek</td>
<td>2ASVR.SA</td>
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<tr>
<td>Teflon coated bent steel tweezers (EMS SA with &quot;PTFE&quot; Coating)</td>
<td>Electron Microscopy Sciences</td>
<td>78322-7Te</td>
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</tr>
<tr>
<td>Teflon coated broad beak steel tweezers (EMS 2A &quot;PTFE&quot; Coating)</td>
<td>Electron Microscopy Sciences</td>
<td>78322-2ATe</td>
<td></td>
</tr>
<tr>
<td>Hamilton syringe, 1 mL, gastight (Model 1001 TLLX SYR)</td>
<td>Hamilton</td>
<td>81323</td>
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<tr>
<td>Clean room tissue Sontara Micropure AP (224 x 224mm)</td>
<td>DuPont</td>
<td>Sontara MicroPure</td>
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</tbody>
</table>