Michigan Neuroscience Institute – Resource Database
Overview

• Why a shared resource database?
• From poll to platform
• Live MNI Resource Database demonstration
• Factors to keep in mind & next steps
• Points of discussion
• Open Q&A
Why a Shared Resource Database?
What are potential benefits of becoming an MNI faculty affiliate?
Outstanding Questions

What types of resources would be most useful in a shared database? What would you share?

What platform would be most accessible & effective?

How much detail should be present?

How and how often should the database be updated?
The Journey

- Informational Interviews
- Comparative Analyses
- HITS Engagement
- Pilot Group Feedback
- Platform Beta Testing
- Release to Entire MNI Community
## The MNI Resource Database

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Equipment Name</th>
<th>Manufacturer Name</th>
<th>Model #</th>
<th>Shared Access</th>
<th>Important Notes</th>
<th>Building</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgical</td>
<td>Stereoscope</td>
<td>AmScope</td>
<td>7X-45X Trinocular Stereo Zoom Microscope with Black Double Arm Boom Stand</td>
<td>Open source with permission &amp; training</td>
<td></td>
<td>BSRB</td>
</tr>
<tr>
<td>Other</td>
<td>Blue laser</td>
<td>Shanghai Laser &amp; Optics Cen.</td>
<td>BL473T8-100FC + ADR-800A</td>
<td>Open source with permission &amp; training</td>
<td></td>
<td>BSRB</td>
</tr>
<tr>
<td>Other</td>
<td>Yellow laser</td>
<td>Shanghai Laser &amp; Optics Cen.</td>
<td>YL589T6-100FC + ADR-800A</td>
<td>Open source with permission &amp; training</td>
<td></td>
<td>BSRB</td>
</tr>
<tr>
<td>Other</td>
<td>Programmable pulse stimulator</td>
<td>AMP Instruments</td>
<td>Master-9 Pulse Stimulator</td>
<td>Open source with permission &amp; training</td>
<td></td>
<td>BSRB</td>
</tr>
<tr>
<td>Other</td>
<td>Power meter</td>
<td>Thorlabs</td>
<td></td>
<td>Open source with permission &amp; training</td>
<td>Digital Power &amp; Energy Console, Si Sensor, 400 nm -1100 nm, 500 nW - 500 mW</td>
<td>BSRB</td>
</tr>
<tr>
<td>Microscope</td>
<td>Fluorescent Microscope</td>
<td>Olympus</td>
<td>BX51WI</td>
<td>Open source with permission &amp; training</td>
<td>DIC, red/green/blue filter cubes</td>
<td>MS-I</td>
</tr>
<tr>
<td>Electrophysiology</td>
<td>Patch-clamp</td>
<td>Axon</td>
<td>Axopatch 200B</td>
<td>Open source with training &amp; via collaboration</td>
<td>Capacitative feedback suitable for single channel recordings</td>
<td>MS-I</td>
</tr>
<tr>
<td>Electrophysiology</td>
<td>Patch-clamp</td>
<td>Axon</td>
<td>Multiclamp 700B</td>
<td>Open source with training &amp; via collaboration</td>
<td></td>
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</tr>
</tbody>
</table>
### Accessibility
- non-HITS Microsoft 365
- @umich & level-1 password for login

### Nascent Living Database
- Updated every 6mo-1yr
- Adaptive elements
- Open for feedback

### Looking Ahead
- Grants database
- Expertise & protocol database
We Need Your Help!

Contribute
- Copy, complete, and submit the excel sheet on the MNI website to Lucas Huffman (lucashu@umich.edu) for incorporation into the Database
- Recruit lab techs/managers and senior graduate students to help
- Only submit resources you are willing to share, we want more “yes” than “maybe” or “no” to promote collaboration

Utilize
- Most should have access, but if not reach out to request
- Explore the user guide on the MNI website for navigation and instructions

Give Feedback
- More contributions and suggestions for improvement enhance usefulness
- Note and communicate any thoughts or comments to Lucas Huffman