RHCL Bone Histomorphometry Processing Guidelines
Bone Histomorphometry samples are only processed on Mondays, so please plan your drop offs accordingly!

Prior to submission of samples
- Consultation must be made with Leah Guerra regarding subsequent staining and analysis to determine full servicing details.
- Requests must be placed via the iLabs chargeback system from the corresponding labs:
  - Processing, embedding and sectioning via Research Histology Core Laboratory (RHCL)
  - Staining and analysis via Bone Histomorphometry Core Laboratory (BHCL).
- For details on how to register to iLab, please see the iLab user guide found on our website.
- The information on the logsheet must meet criteria as follows:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Sample Description</th>
<th>Sample Quantity</th>
<th>Special Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Must be 12 characters or less Will have a sample ID for each individual sample (eg. Fem-1)</td>
<td>A brief description of the type of samples you will be bringing in (eg. mouse femur)</td>
<td>Number of samples for the corresponding sample ID (should be 1 each)</td>
</tr>
</tbody>
</table>

Summary of logsheet information:
1. Sample ID must be 12 characters or less
2. Special instructions must be detailed for sectioning including slide quantity needed per stain
- Samples must be fixed in 4% Paraformaldehyde (PFA) at least 24 hours before submission to the RHCL.

- **Grossing must be done prior to submission of samples.**
  - Long bones must be detached from the joint and submitted separately.
  - Spine and surrounding connective tissue must not exceed a length and width of 1½ cm each, and a thickness of 2mm. **Vertebrae must be cut between the intervertebral discs.**
  - For any other type of bone sample, contact the lab to determine the best course of action for your order. See contact info below.
- Request for TRAP staining must be fixed in 4% PFA and submitted as soon as possible to avoid enzyme degradation and to obtain optimal results

Upon submission of samples
- RHCL order number must be labeled on all submitted containers and supplies
- Samples can be dropped off in 4% PFA or 70% ethanol
- The RHCL processing schedule for bone histomorphometry takes five full days. **As a result, samples are processed only on Mondays.**
Consultation must be made between the RHCL and BHCL regarding the following preferences:
   - Transferring of samples and slides from the RHCL to the BHCL
   - Pickup information and location preference upon completion of staining and analysis services.

Contact Information
Research Histology Core Laboratory (RHCL)
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Phone: 713-792-3119