Use of Vaccinia Virus & Vaccinia Virus Vectors

1.0 Purpose and Scope: To provide guidance for the use of vaccinia virus and vaccinia virus vectors in the laboratory and animal facility environment.

2.0 Definitions:
   Vaccination: preparation administered to provide protection against a specific disease.
   Viral Vector: a virus used to deliver genetic material into cells or an organism.

3.0 Guidance Information:
Vaccination should be considered for personnel who may be occupationally exposed to select vaccinia virus strains. Contact University Health Services (UHS) at 265-5600 for additional information.

4.0 Precautions:
   1. Personal Protective Equipment (PPE) Required: Lab coat, gloves (standard nitrile or latex) and safety glasses. When working outside of containment, an N95 respirator* and goggles are worn. *Respirator use requires medical clearance and fit testing.
   2. Laboratory: BSL-2 is required for administration and handling of vaccinia virus. A BSC (biosafety cabinet) or full mucosal protection is required anytime there is a potential for aerosolization.
   3. Animal housing and bedding/wastes:
      a. Animals should be housed in microisolator or similar containment caging.
      b. A biological safety cabinet (BSC) is needed when opening cages and handling animals.
      c. Signage is required on each individual cage containing the biohazard symbol and “Agent, End date and Disposal method”. Signs are removed when special handling time has ended. *Cage signage available at www.ehs.wisc.edu
      d. Decontamination of animal waste, caging and any other contaminated equipment is required before disposal. Autoclaving or a suitable chemical disinfectant is used prior to disposal into standard waste streams. Caging must be either bagged into biohazard bags for transport to the autoclave or must remain sealed during transport and at all times prior to autoclaving. It is recommended that cage racks be treated with virucidal disinfectant prior to removal from animal room.

5.0 Related Documents:

“Biosafety in Microbiological and Biomedical Laboratories”, Centers for Disease Control and Prevention, current edition.
http://www.cdc.gov/biosafety/publications/bmbl5/


### 6.0 Document Revision:

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<thead>
<tr>
<th>Revision Number</th>
<th>Revision Date</th>
<th>Description of Revision</th>
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<tbody>
<tr>
<td>1</td>
<td>12/21/11</td>
<td>PPE and waste handling clarification</td>
</tr>
<tr>
<td>2</td>
<td>9/25/12</td>
<td>Removed “required” from 3.4 heading, added info on vaccination declination form</td>
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<tr>
<td>3</td>
<td>4/2/13</td>
<td>Added “required” back to 3.4 heading and minor wording changes per Ann Larson edit received 4/1/13</td>
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<tr>
<td>4</td>
<td>7/11/14</td>
<td>Entire document was revised and renamed from OH to BIO</td>
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