Containment Level 2 with Containment Level 3 Procedures (Lentivirus)

CL2 with CL3 Procedures are organisms that pose a medium/high risk to the individual, but low risk to the community.

CL2 with CL3 procedure organisms include HIV-based Lentivirus, Pseudorabies, and some other viral vector systems. When manipulating clinical samples containing HIV, Hep B or C, TB, WestNile, some Influenza strains, or other RG2 or RG3 pathogens, CL3 procedures may be required.

All studies must undergo a risk assessment to determine if additional precautions are required. The Biosafety Committee will perform an assessment once a Biosafety Protocol is submitted through RISE.

Setting up a CL2 with CL3 Procedures Workspace

All workspaces must be approved by Risk Management Services. The following provides structural and personal protection equipment requirements, but these are dependent on what organism is being used and what procedures are performed. Please contact the Biosafety Office to perform a full risk assessment.

Procedural Requirements:

Once a room is identified for CL2 with CL3 procedures all individuals working in the room (whether with lenti or not) must follow the procedural requirements.

Facility Requirements:

- **Dedicated** and isolated CL2 space (usually a cell culture room) with a door
- Ability to restrict access
- Non-absorptive surfaces
- Negative pressure
- Hand-washing sink near the exit
- Ante room or pseudo ante room (created on a case by case situation)
- Seamless flooring
- Access to an autoclave
- Space to contain all the necessary equipment including:
  - Biosafety Cabinet (BSC)
  - Centrifuges (micro, ultra and or high speed)
  - Incubators (for *in vitro* work)
  - Vortex (must be located within the BSC)
Refrigerator and/or Freezer
Microscope
Waterbath
And any other specialized equipment

**Animal Facilities:**
- All of the above for the procedure room
- Isolated housing rooms
- Autoclave access for all the tools and consumables used in the procedure room and for all the bedding, cages etc. in the housing rooms.
- HEPA filtered cage changing stations

**Personal Protective Equipment (PPE):**
- Isolation gown
- Double gloves
- May need Goggles, Hair net and N95 mask depending on the procedures