Card N°2

Working in a biosafety level 2 laboratory (moderate risks) (BSL2 or P2)

1. All the basic rules described in the document entitled “BIO - safetyCard - N°1” for BSL1/P1 level apply, unless overruled by one of the below-mentioned case.

2. All P2 activities must be at least notified to the Office of biotechnology. All derogations to standard P2 safety measures must be authorized by the same office. Contact the “Biosafety EPFL” for notification or derogation requests.

3. Access in a P2 laboratory is restricted to authorized persons only.
   - CAMIPRO access rights are granted only after completion of the “FOBS 3 – Biological risks: working in a P2 & P3 environment” training.
   - P2 access is validated by the COSEC in charge of the laboratory in which the collaborator will work and by “Biosafety EPFL”.
   - Contact the Health Point to schedule your entry medical check.

4. PPE must be systematically worn in the P2 laboratory:
   - Blue cotton lab coat or single-use lab coat (color must different from the color of the coats used in a classical laboratory environment).
   - Gloves (consider double gloving depending on the type of activities).
   - FFP2 or FFP3 respiratory masks must be considered in the absence of primary containment.

5. When working with risk group 2 organisms:
   - All activities should be confined (use of primary containment):
     – Work in a biosafety cabinet (laminar flow).
     – Cultures are set in closed vessels.
     – Centrifugation is performed in buckets or rotors equipped with sealed lids. In case of centrifugation problems (improper balance, tube damages), wait 30’ to allow aerosols sedimentation before opening the lids.
   - Risk group 2 samples are double-packaged for internal transport.
   - P2 samples are normally stored inside the P2 laboratory. When stored outside, the Biohazard pictogram must be affixed on the drawers or shelves holding P2 material. The biohazard pictogram must also be visible on each boxes and/or containers containing P2 material.

6. All waste that was in contact with risk group 2 organisms must be inactivated before elimination.
   - For heat inactivation, collect the solid waste in the recommended autoclave bags and the liquid waste in adequate autoclave vessels. When ¾ full, close the bags or the

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1 Some activities, such as stereotaxic injection of viral vectors, cannot be confined. Those activities must first be assessed by the School biosafety coordinator and then authorized by the State authorities. Generally, only the injection steps are authorized outside the confinement. Growth and preparation of risk group 2 viral vectors remain sheer confined activities.
vessels, decontaminate the outside with the appropriate decontaminant (leave enough contact time) and transfer the bags/vessels to the autoclave room for treatment. The autoclave must located within the building.

- Do not add any solvent or bleach to liquid solutions that must be autoclaved.
- For chemical inactivation of liquid solutions, add the appropriate decontaminant. Let react at least overnight before elimination. Attention: most decontaminating solutions must be eliminated like chemicals and should not be discarded in the sink (e.g. bleach)

7. Clean and decontaminate the safety cabinet and the bench surfaces after each use.
8. Wash the floor at least once a week (report cleaning in a logbook)
9. Remove gloves and lab gown before leaving the laboratory
10. Change your P2 gown at least once a week

When working alone or off-hours, you must wear the man-down emitter necklace!