## **EPFL** EM Staining with uranium salts in BSL1 and BSL2 environments Liquids and Eppendorf tubes Consumables Grid disposal BSL1, GMO BSL1, GMO or NO or NO **HAZARD HAZARD** With **Eppendorf Tubes** living microwith Leftover Contact SRPO and organism of pure staining SBSO for a dedicated solution? Appropriate chemical solution inactivation **TREATMENT** NO Virkon, NaOH, YES NO Activity > 1 kgLL<sup>1</sup> YES NO Reconsider chemical hazard (e.g. if pH>10) BSL1, GMO BSL1, GMO BSL1, GMO or NO or NO or NO HAZARD HAZARD **HAZARD** Waste label with OMoD code Estimate the Remove all radioacive labels Estimate the activity, fill Follow the procedure for emaining volume the yellow label and and follow the procedure for biological wastes. and bring back to

<sup>1</sup>The activity of the waste must be known at all time. Aim at keeping it significantly below the clearence limit. You cannot dispose more thant 1kgLL per week. 1kgLL = 1 kBq for U-238

ontact the RPE or FRPO

## Examples of wastes just below 1kgLL:

- A waste contaminated with 8 mL 1% UA solution ( or 4 mL 2% UA solution)
- A waste contaminated with 7.5 mL 1% UF solution (or 3.3 mL 2% UF solution)
- A waste with 4000 grids stained with 1% UA solution (or 2000 grids stained with 2% UA solution )
- A waste with 3700 grids stained with 1% UF solution (or 1850 grids stained with 2% UF solution)
- A waste with 200 epmty Eppendorf tubes that were previously containing U salt solution

Even if the activity of the waste is below 1kgLL, contact an RPE (or the FRPO) to check that the dose rate H\*(10) measured at 10 cm from the surface doesn not exceed 0.1 µSv/h after subtracting the background.

## Accronyms

FRPO: Faculty Radiation protection Officer:

- Maurizio Maio for SB
- Geneviève Dayer for SV
- Ilias Gemperli for STI

SRPO: School Radioprotection Officer: Emanuele Ripiccini SBSO: School Biosafety Officer: Eleonora Simeoni

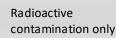
RPE: Radiation Protection expert of the group



Radioactive + BSL2 contamination

biological wastes.





There are no bags or cans with radioactive labels. Normal bags or cans contaning radioactive materials have to be properly labeled by using the material available on the EPFL safety catalog. Write also the symbol of the radioisotope. The yellow label can be directly asked to the FRPO.

Activity > 1 kgLL<sup>1</sup>

NO

YES

Estimate the activity, fill

the yellow label and

ontact the RPE or FRPO







Remove all radioacive labels

and follow the procedure for

biological wastes.

