# Part 3
# Lab Induction

NUFFIELD DEPARTMENT OF CLINICAL NEUROSCIENCES

Radcliffe Department of Medicine
Medical Sciences Division

UNIVERSITY OF OXFORD

# Occupational Health

Follow up email will contain:
“COSHH_Health_Surveillance_Registration_Form_HS1-1.docx”

- Complete and return the form to the Lab Manager if you work with any of the following:

  - ✓ Human blood (Hepatitis B vaccination)
  - ✓ Animal allergens (Lung test and **mandatory** health questionnaire)
  - ✓ Reagents linked to occupational disease (glutaraldehyde, solder flux, latex )
  - ✓ Pathogens (such as Listeria)

# Health and Safety Policies

**NDCN:** https://www.ndcn.ox.ac.uk/about/professional-services/health-and-safety/health-and-safety-policies

- NDCN safety policy 001 Chemical safety
- NDCN safety policy 002 Biological Safety
- NDCN safety policy 003 Manual handling
- NDCN safety policy 004 Handling cryogenics
- NDCN safety policy 005 Compressed gas safety
- NDCN safety policy 006 Cold rooms
- NDCN safety policy 010 Transport of research material
- NDCN safety policy 013 Waste segregation
- NDCN safety policy 016 Contractors work
- NDCN safety policy 017 Escalation procedure

>> Training record sheet

# Hazards and Training

- Mandatory: Biosafety training introduction https://cosy.ox.ac.uk/accessplan/LMSPortal/UI/Page/Courses/book.aspx?courseid=SAFE00002
- If using: Compressed Gas Safety https://cosy.ox.ac.uk/accessplan/LMSPortal/UI/Page/Courses/book.aspx?courseid=SAFE00004
- If using: Cryogenics https://cosy.ox.ac.uk/accessplan/LMSPortal/UI/Page/Courses/book.aspx?courseid=SAFE00013
- All workers must attend University Radiation Workers Seminar before starting work with radioactivity. (safety office training) https://cosy.ox.ac.uk/accessplan/LMSPortal/UI/Page/Courses/book.aspx?courseid=SAFE00037

✓ All new radiation workers must register with NDCN Senior Radiation Protection Supervisor.

✓ Form must be signed by supervisor and SRPS

# NDCN Laboratory Rules

- All Labs are CL2 (use of human samples) Strictly no eating, drinking, chewing or cosmetic application within the laboratory
- Headphones: one ear/low volume only so alarms can be heard

- Sensible footwear must be worn - no open toe shoes.
- Personal Protective Equipment must be worn:
  - Labcoat
  - Gloves – do not re-use those! Be aware of compatibility with chemicals/biological materials.
  - Safety spectacles (even if working at the MSC)

  Prescription safety glasses are issues to people with prescription glasses staying in the lab for over 6months – contact facilities

# NDCN Laboratory Rules

- Hands must be washed upon exit from the laboratory.
- There is a ‘one glove’ policy for moving between lab areas, therefore, a glove must be removed before using doors.

You must follow this, clean gloves are not allowed. We cannot have split handles due to the actual risk of contaminant on the door and potential exposure to cleaners, engineers. We have an escalation procedure in place for non-compliance

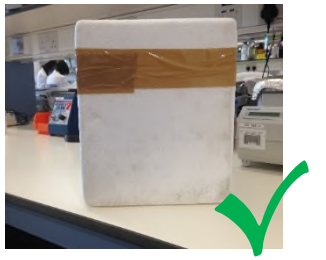
- No re-sheathing of blades or needles!

Blades can be re-used: place blade in a 50ml tube or stab it in polystyrene.

- Do not overfill waste bins
- Clean up spill immediately if this happens
- Respect shared equipment (clean up!)
- Report any fault to Facilities
- Notify Facilities if help is needed

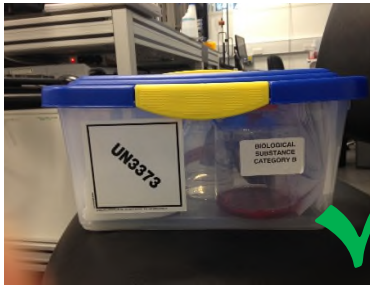
# Transport of Research Material

- Be mindful of container: in ex petri dish is likely spill
- Use rack or box to facilitate transport in lab space



- When transporting biological or chemical substances out of CL2 lab suitable secondary containment MUST be used.

Cardboard/polystyrene boxes are not suitable as they will not contain liquids!




- Public transport is not suitable for biological/chemical material.

- Personal vehicle must be insured if transporting research samples.

- If shipping additional regulation apply and you must attend the "transport of hazardous material" provided by the Safety Office.

# Cryogenics – liquid nitrogen – dry ice


- Risks:
  - Oxygen depletion alarm
    - LN2 is an asphyxiant by displacing Oxygen
    - Evacuate the area as soon as the alarm sounds
    - **NEVER enter the area if the alarms are sounding**
  - Dry ice – pelleted CO2 – hazardous gas
    - Never place dry ice in cold room
  - Cold burns and frost bite – must use provided PPE
    - Face shield , cryogloves, labcoat for cryotank
    - Face shield, cryogloves, labcoat + Apron – **dispensing LN2**
  - Explosions due to trapped expanding gas
    - Never put LN2/dry ice in a sealed container
  - Effects on materials: brittle
    - Use material design for very low temperatures

- **Dispensing of LN2: contact facilities for hands-on training**

# Lab Waste Disposal

Hazardous chemical waste

As per COSHH risk assessment

Sharp waste

✓ **Sharps and syringes**

Biological waste

***Virkon***

Liquid

Lab sink

Solid

Potentially infectious waste (gloves)


**(tips and pipettes only)**

**GMO waste (autoclave bags)**

Non hazardous

Athena SWAN Silver Award

# Questions?

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# Many thanks for your time!

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