

# Quick bites and hot topics

Mark Wills, Interim Head of Department of Medicine  
Chair University Biological safety Sub-committee

**May 7<sup>th</sup> 2024**



UNIVERSITY OF  
CAMBRIDGE



The screenshot shows the 'Import Export Hub' website with a dark blue header. The top navigation bar includes links for Home, Imports, Exports, Customs Agents, Controlled items - licences and sanctions, Services, Repairs, and How do I contact the Hub?. The 'Controlled items - licences and sanctions' link is currently selected. The main content area is titled 'Animal by products' and contains a sub-section titled 'Animal by products (ABPs)'. This section provides information about the generation, transportation, handling, processing, storage, and placing on the market of animal by-products within the EU. It mentions the University's registration with the Animal and Plant Health Agency (AHPA) and the need for pre-notification of incoming consignments via IPAFS 24 hours before arrival. It also notes that departments are responsible for submitting pre-notification of incoming consignments via IPAFS 24 hours before a consignment is due to arrive. The page includes a list of items that fall under ABPs and a note about the Specified Animal Pathogen Order (SAPO). A sidebar on the left lists categories such as Animals, Animal by products, Plants and plant products, Controlled goods: non-proliferation controls, Drugs and chemicals, Radioactive Materials, Objects of cultural interest, Sanctions, Dual-Use Goods, Technology and Software, Imports, Exports, Customs Agents, Services, Repairs, and How do I contact the Hub?. A 'Login with Raven' link is also present on the right.

# Import/export of Animal By Products.

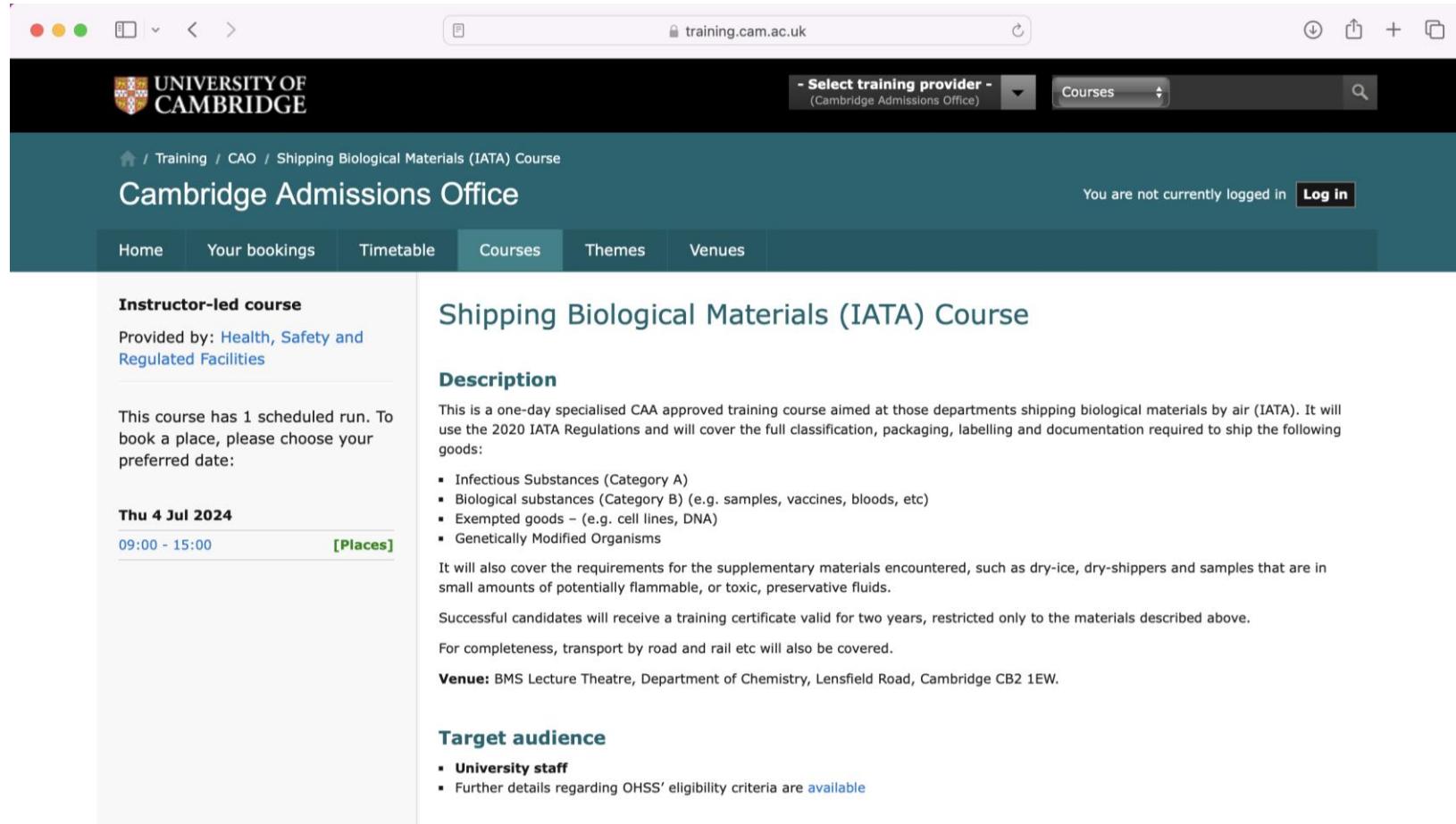
- New rules for commercial imports.
- Final implementation end of April.
- Importing typical low risk material for research purposes not affected, keep doing what you are doing.

## BUT

- Plan ahead if bringing back samples from abroad,
- clearly indicate on package contents for research, not for commercial use.

Import/Export team and Mark Elsdon can offer advice, do feed back any issues and also if it all worked smoothly.

<https://www.importexport.admin.cam.ac.uk/animal-products>



The screenshot shows a web browser window for [training.cam.ac.uk](https://training.cam.ac.uk). The page is for the 'Shipping Biological Materials (IATA) Course' offered by the Cambridge Admissions Office. The course is an 'Instructor-led course' provided by Health, Safety and Regulated Facilities. It has one scheduled run on Thursday, 4 July 2024, from 09:00 to 15:00. The course description covers IATA regulations for shipping biological materials, including infectious substances, biological substances, exempted goods, and genetically modified organisms. It also covers requirements for dry-ice, dry-shippers, and preservative fluids. Successful candidates receive a two-year training certificate. The venue is the BMS Lecture Theatre, Department of Chemistry, Lensfield Road, Cambridge CB2 1EW. The target audience is University staff. The page includes a 'Places' button and a 'Log in' link.

Book online  
<https://training.cam.ac.uk/cao/course/ohss-safety101>

# International Air Transport Association (IATA) training.

- Self-audit results indicated that not every dept that sends infectious material by air has an IATA trained person.
- Please make sure (refresher) training is done **every two years** and that succession planning as well as backup is in place.

Next course 1 day course  
4 July 2024.



## Waste. Sharpsmart waste audits.

These are free for Departments, done by Sharpsmart,

Paid for by the University.

Helpful compliance check.

Make sure your Department responds to audit requests.

Sharpsmart are a preferred supplier but Novus can also be used.

These contracts are between Department and company, Claudia Conti from Finance helps with roll-out.

<https://www.sharpsmart.co.uk/auditsmart>

UNIVERSITY OF CAMBRIDGE | Study at Cambridge | About the University | Research at Cambridge | Quick links | Search | 

What we do / Estates Division

Estates Division

Home | What we do | Working with us | Change Programmes | A-Z of our Services | Contact us | News

Estates Division

Recycling and Waste

**What we do**

- > Development of the Estate
- > Estate Operations
- > Annual Report and Facts & Figures
- > Strategic Framework
- > Recycling and Waste

**Working with us**

Change Programmes

A-Z of our Services

Contact us

News



**THE CAMBRIDGE green CHALLENGE**

**Equipment Replacement Programme**  
– Ultra-Low Temperature (ULT) Freezers

**The Deal**

Financial support is available to help departments replace inefficient ultra-low temperature (-80°C) freezers over ten years old with new energy efficient models. Funding comes from the University's Carbon Reduction Fund.

<b>Form of Support</b>	<b>Funding offered for ULT (-80°C) freezers (over 10 years old)</b>
<b>Replacement</b> (1-for-1)	Up to 25%* of the cost of a new eligible energy efficient freezer (max £2,500 per unit).
<b>Reduction</b> (2-for-1)	Up to 100%* of the cost of 1 new eligible energy efficient freezer.

\* See Terms & Conditions

<https://www.em.admin.cam.ac.uk/what-we-do/recycling-and-waste>

[https://www.environment.admin.cam.ac.uk/files/20210708\\_erp\\_freezer\\_guide\\_v9.0.pdf](https://www.environment.admin.cam.ac.uk/files/20210708_erp_freezer_guide_v9.0.pdf)

# Waste Electrical and Electronic Equipment (WEEE).

Interim budget for lab electrical waste until end of 2025/26 academic year.

Now includes all waste except large -80 freezers.

-80 exchanged as part of the Equipment Replacement Program, a subsidy scheme to replace old for more efficient new -80s; run by Sustainability.

Departments might have to budget for WEEE waste in future!

# Chemgene MEDLAB.

## MICROBIOLOGICAL EFFICACY

Chemgene MEDLAB has been tested to the following European PT2 test standards.

### Medical

- EN13727 & EN17387 (bactericidal)
- EN13624 & EN17387 (yeasticidal, fungicidal)
- EN16777 (virucidal – all enveloped viruses)
- EN16777 (Adenovirus, Norovirus)

### Domestic

- EN14476 (virucidal – all enveloped viruses)
- EN14476 (Adenovirus, Norovirus)

### Other

- EN13623 (Legionella)
- EN13610 (Bacteriophage)



DILUTION CHART		
Effective against	Dilution rate	Contact time
Bactericidal incl. ESKAPE organisms, Moraxella, Streptococcus pyogenes, E.coli	1 %	5 mins
Bactericidal Legionella	1 %	10 mins
Yesticidal incl. Candida albicans, Candida auris	1 %	10 mins
Virucidal (enveloped viruses) incl. Vaccinia virus, HIV, Hepatitis B & C, Herpes Simplex, Coronavirus	1 %	10 mins
Fungicidal incl. Aspergillus brasiliensis	5 %	10 mins
Virucidal (non-enveloped viruses) Adenovirus, Norovirus	50 %	5 mins

## Chemgene MEDLAB: MICROBIOLOGICAL EFFICACY

VIRUCIDAL EFFICACY			
Test organisms	Test Ref	Test conditions	Test result
Vaccinia virus	EN14476	1 min/low soil/1 %/20 °C	>4 log reduction
including Coronavirus, Hepatitis B, Hepatitis C, Herpes simplex, HIV	EN14476	15 mins/ high soil/2 %/20 °C	>4 log reduction
EN16777	10 mins/ low soil/1 %/20 °C	>4 log reduction	
EN16777	15 mins/ high soil/2 %/20 °C	>4 log reduction	
Adenovirus	EN14476	5 mins/ low soil/10 %/20 °C	>4 log reduction
EN16777	5 mins/ low soil/10 %/20 °C	>4 log reduction	
Norovirus	EN14476	2 mins/ low soil/10 %/20 °C	>4 log reduction
EN14476	5 mins/ low soil/5 %/20 °C	>4 log reduction	
EN16777	30 mins/ low soil/10 %/20 °C	>4 log reduction	
EN16777	45 mins/ low soil/5 %/20 °C	>4 log reduction	

VIRUCIDAL EFFICACY AGAINST BACTERIOPHAGES			
Test organisms	Test Ref	Test conditions	Test result
Lactococcus lactis subsp. lactis P001 DSM 4262	EN13610	5 mins/1% acidic whey/0.5 %/20 °C	>4 log reduction
Lactococcus lactis subsp. lactis P008 DSM 10567	EN13610	5 min, 1% acidic whey, 1%, 20°C	>4 log reduction



YEASTICIDAL/FUNGICIDAL EFFICACY			
Test organisms	Test Ref	Test conditions	Test result
Aspergillus brasiliensis	EN13624	10 mins/ low soil/ 5 %/20 °C	>4 log reduction
EN13624	10 mins/ low soil/ 5 %/20 °C	>4 log reduction	
Candida albicans	EN13624	5 mins/ high soil/ 2 %/20 °C	>4 log reduction
EN13624	5 mins/ low soil/ 2 %/20 °C	>4 log reduction	
Candida auris	EN13624	5 mins/ low soil/ 2 %/20 °C	>4 log reduction
EN13624	10 mins/ low soil/ 1 %/20 °C	>4 log reduction	

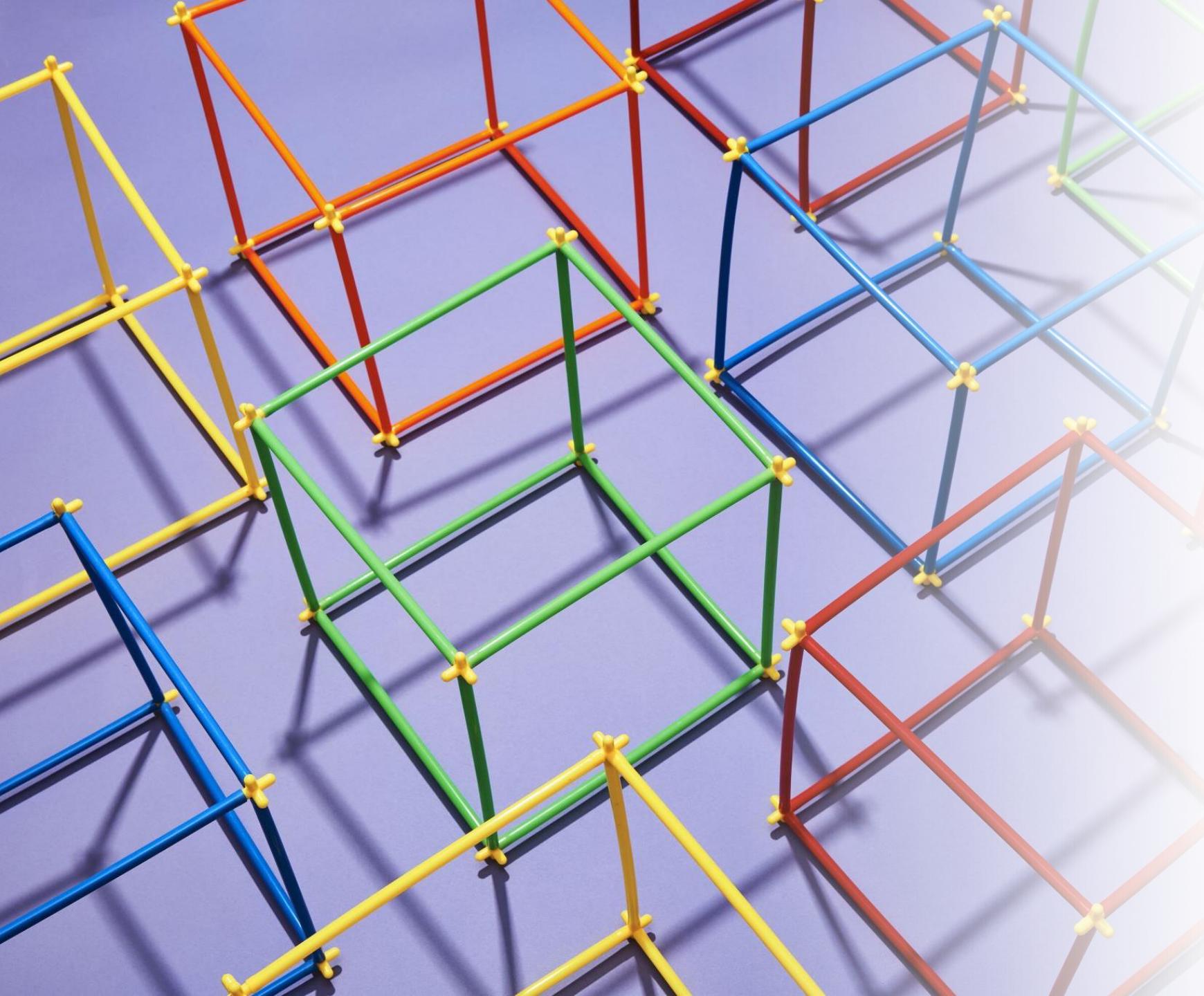
ADDITIONAL DATA			
Test method	Test result		
Preservative Efficacy Testing	Complies with the test for the Efficacy of Antimicrobial Preservatives (European Pharmacopoeia 11th Edition)		
DNA Denaturation	Effective at denaturing DNA in 5 mins, at 1% dilution		
Stain and odour testing	Effective at removing staining and odour from carpet tiles caused by various organic stains including red wine, coffee, garden soil and cat vomit, at 20% dilution		
Hard surface cleaning test	Effective at cleaning both synthetic vomit and blood stains from polyurethane substrate (substitute for hard flooring), at 2% dilution		

# Chemgene Disinfectant

After a review of the existing formulas and extensive testing, launch a new range of multi-surface disinfectants

Replace and combine the properties of Chemgene Laboratory (HLD4L) and Chemgene Medical (HLD4H).

If used as validated means of disinfection, check new formula works (data sheet) and possible re-validation!



## Contingency planning.

- Phones using IP lines rely on internet access.
- Might need to rethink contingency plan for situations where internet access is disrupted.
- Example of CL3 lab at CITIID following cyber incident. CITIID has particularly bad mobile phone connectivity
- Also highlights importance of data security and our reliance on IT systems. – Tscan, CCTV, Building Management Systems

Publications

## The Approved List of biological agents

Date of publication: 2023

ISBN: N/A

Series code: MISC208 (rev5)

► Download a free copy (PDF)

The Approved List of biological agents provides the classification of biological agents as referred to in the Control of Substances Hazardous to Health Regulations 2002 (COSHH). It is approved by the Advisory Committee on Dangerous Pathogens (ACDP) and is relevant to risk assessment for work with biological agents and the application of appropriate control measures.

The approved list is for use by people who deliberately work with biological agents, especially those in research, development, teaching or diagnostic laboratories and industrial processes, or those who work with humans or animals who are (or are suspected to be) infected with such an agent.

Over time, new biological agents emerge which are found to cause disease in humans and new treatments are developed. ACDP, in consultation with other experts, periodically reviews the list to consider any new evidence to support the addition of new agents or any changes to the classification of agents already listed.

This fifth edition of the Approved List of Biological Agents includes the following changes:

- the hazard group classification for existing agents has been reviewed and reclassified where appropriate
- previously unlisted biological agents have been classified and added to the list at Hazard Group 2 and Hazard Group 3
- advice on available vaccines has been updated

If you are working with biological agents, it is important that you review the updated Approved List for any changes to ensure that you continue to implement the appropriate control measures in accordance with the hazard group classification.

# Advisory Committee on Dangerous Pathogens approved list

Updated December 2023,

Most notable change Plasmodium knowlesi is now CL3

Many previously unlisted pathogens have been added.

If working with CL2 or novel pathogens, **check** whether the updates affect work at your department.

<https://www.hse.gov.uk/pubns/misc208.htm>



Health and Safety Executive

Search hse.gov.uk

Home News Guidance About HSE Books Free updates Contact

HSE > Guidance > Topics > Biosafety

## Biosafety and microbiological containment

### Guidance

[Infections at work](#)  
Preventing exposure to micro-organisms such as bacteria and viruses at work

[Genetically modified organisms \(GMOs\)](#)  
Working safely with GMOs in contained use facilities like research laboratories

[Regulating specified animal pathogens](#)  
Complying with the Special Animals Pathogen Order (SAPO) and applying for a licence

[Blood-borne viruses](#)  
How to reduce the risks of blood-borne viruses and manage incidents of exposure

[Resources](#)  
Publications and links covering laboratories, healthcare, sewage and legionella

**HSE biosafety inspector Maria Taraktsoglou,**

planning a series of short visits to inspect

CL3,

Schedule 5

higher risk GM work.

Initial planning meeting on Wednesday 8<sup>th</sup> May.