Traii	200.		
		( 0.1	Sign:
	gnation: Student / RA / RF / Collaborator / Visitor	/ Otne	rs:
Traiı	ner:		Sign:
P.I.:			Sign:
Date	2:		
	SAFETY POLICY & OBJECTIVES		
	Department Safety Policy, Objectives &		Ultra-low temperature freezer
	Programs		(cryogloves etc.)
$\square$	Lab Safety Objectives		Faulty equipment
	, ,		(reporting, lockout, inclu. common equipment)
	COMMON SAFETY LAB PRACTICES		BIOLOGICAL SAFETY
	Lab safety requirements		Biological safety cabinet
	(no food & drinks, tied hair etc.)		(operation, sash level, UV lamp cleaning etc.)
	Lab coats & gloves in public areas		Common disinfectant
	(building to building etc.) Lab coats		(70% ethanol, chlorine, VirKon, preparation etc.)
	(laundry)		
$\square$	Basic Personal Protective Equipment		CHEMICAL SAFETY
	(lab coat, gloves, safety eyewear, closed footwear)		Fume hood (operation, sash level etc.)
	Safety documents		Legal legislations & ORMI
	(SOP, RA etc.)		(poisons, PFM, EPMA, EP etc.)
	Housekeeping		LMMS
	(lab duty roster, spring cleaning etc.) After-hours work		(inventory, log)
	(avoid high-risk work, PI notification, risk assessment,		LMPRS
	communication channels, emergency response)		(Purchase)
			GHS Labels
	SECURITY AND ACCESS		Storage
	Card access hours		(segregation, sec container, lock etc.)
	(x-ref department card access guidelines)		Safety Data Sheets
	Card access safety directives		_
	Contractors/visitors access		RADIATION/LASER SAFETY
	contractors/visitors access		Not Applicable
	Visitors' log book		Training by PI/Competent personnel
	EQUIPMENT SAFE USAGE &		License
	TRANSPORTATION		(e.g. N3, R1 user License via LicenseOne)
$\square$	Centrifuge safety		
	(safety cups, balancing, emergency lid release etc.)		WASTE DISPOSAL MANAGEMENT
	Cryogenic tank		General waste
	(cryogloves, face shield, lift, buddy system etc.)		(black bag)

Department of Physiology Yong Loo Lin School of Medicine Department of Physiology

# New Personnel Safety Orientation Checklist Package Version 2.2 (May 2024)

Biological waste (double yellow bags, weekly disposal, liquid waste, green mobile bin) Chemical waste (hazardous waste label, GHS label, quarterly disposal, ChemSafe Trolley) Cytotoxic waste (double purple bags, liquid waste, green mobile bin) Empty chemical bottles (label, storage, disposal) Sharps disposal (sharps bin, broken glass disposal box) Labels for waste generated (chemical identity, GHS labels, Name, PI, Date)	Unsafe O <sub>2</sub> level ER (response, gas monitoring panel, O <sub>2</sub> detectors) First aid response (first aiders, first aid box, after office hours) Emergency contacts Emergency evacuation announcement (single stage/2-stage) Emergency escape route Emergency assembly point (during office hours) Emergency shower
DEPARTMENT COMMON EQUIPMENT	
Online Facilities Booking System	Emergency eyewash
Equipment in-charge Logbook	Emergency air purge button (locations, use) Emergency door release button (locations - inclu. Cold Room, use)
Cleaning up	
Autoclave operation (only authorized personnel, timings) Training by IC/competent personnel <u>TRAINING NEEDS</u>	ACCIDENTS/INCIDENTS AIMS report (within 24hrs) Reporting system (LT/LE, PI, Department Safety Chairperson, HOD)
Hands-on spill management training (mandatory for new staff and students) RCULA for animal work (OH number; online & hands-on training etc.) Structured Safety Training System (SSTS) (x-ref to Appendix A & B)	MEETING THE DEPARTMENT Admin office, LT/LEs Lab members from the same floor Faculty safety officer
MEDICAL SURVEILLANCE Occupational Health Program (authorization form; Animal Work Health	Department safety chairmen Department safety website
Questionnaire etc.) Tetanus vaccination (animal work; doctor's memo) Hepatitis B vaccination (human origin: blood, cell line; doctor's memo)	ORMC portal
EMERGENCY RESPONSE (ER) Fire ER (response, fire wardens, call points, fire extinguisher, after office hours) Spill ER (response, spill responders, spill kits, after office hours)	



NUS Latient Liberation Segarate Segarate Latient Liberation Segarate S

## A. Guide to accessing ORMC modules in CANVAS

- (1) Please access CANVAS via Google Chrome at https://canvas.nus.edu.sg/
- (2) Login using your NUS user ID and password, go to 'Courses' on the left taskbar, scroll down and select 'All courses'. Select 'Browse more courses'.
- (3) Search for the course by inputting the course title into the search bar. Click 'Join this course'. Click 'Enroll in course' in the pop-up window.
- (4) A new pop-up window will appear. Choose to return to dashboard to enroll in more courses or go to the course to start the training.

## B. Accessing CANVAS for Visitors/Guests

## **NUS Visitor Account**

- (1) Please approach your Department Admin for them to submit a request to create a visitor account via the IAM Visitor Portal (<u>https://iam.nus.edu.sg</u>).
- (2) Once your account has been created, install the **VIP Access** app on your chosen 2FA device (<u>https://inetapps.nus.edu.sg/2fa/start.html</u>).
- (3) Register your 2FA device at <u>https://2fa.nus.edu.sg</u>.
- (4) Once the 2FA registration is completed, you can proceed to use your visitor account to access CANVAS, using the NUS Staff/Visitors link to log in (see below)

## Without NUS Visitor Account

- NUS users can apply for CANVAS accounts for non-NUS users through this form (<u>https://forms.office.com/r/bApRn68RdN</u>). Fill in the provided excel template and submit to the form.
- (2) You may refer to this page for more info: <u>https://nus.atlassian.net/wiki/spaces/canvasstudent/pages/74645559/Log+in+to+Canvas+n</u> <u>on-NUS+users</u>.
- (3) After the visitor completes the registration process via an email sent to them, they should use the **Non-NUS Users** link to log in (see below).



	ses	Browse NUSMods		Can	vas
ANNOUNCEMENT	S				
6 Dec 2023   Lumil	US End-of-Life on 31st De	c 2023	~	Password Login	gin uNivUS Log
14 Jun 2023   Char	ge in Status for Un-Enrolle	d Students			
20 Dec 2022   NUS	Students: Change of Logir	Mechanism	~	NUS Studer	its / Alumni
				NUS Staff	
INSTRUCTIONS		go to https://nusit.nus.edu.sg/	change-or-reset-your-		
<ul> <li>If you have forgo nusnet-passwore</li> </ul>	d.				
	d. Ø	4	Ç		

## C. Instructions to assess CHRS courses

- (1) Log on to staff portal <u>https://staffportal.nus.edu.sg/</u>
- (2) Under "eServices" tab, select <u>Learning and Development (L&D)</u>  $\rightarrow$  <u>CHRS Learning</u>

National University of Singapore		Circular Delicios Form	Staff Portal 2.
ne eServices Staff Handbook	Careers	Grounds Forers FUIT	is believer birectory closed
COMMON SERVICES	· · · · · · · · · · · · · · · · · · ·		
ACADEMIC STAFF SERVICES	My Worklist	Class Attendance	NSWS
ACADEMIC STAFF SERVICES	Medical &	Exam Attendance	IMMS
EXECUTIVE & ADMINISTRATIVE	HealthChoice	Facilities Booking >	Business Intelligence >
STAFF SERVICES	<ul> <li>TRAC Past Records (Display Only)</li> </ul>	COI Declaration	> SPACE >
MY SHORTCUTS	Time off/Leave >	Learning and v	HR Interaction Portal
CHRS (CLOUD HR SYSTEM)		Development (L&D)	Service Request
CIRS (CLOUD IR STSTEM)	Salary >	Staff L&D Microsite	Tracker
NUS CONCUR (TRAVEL & CLAIMS	Personal Data >	CHRS Learning	▶ 2FA
MGMT)	<ul> <li>Staff Temperature</li> <li>Declaration</li> </ul>	Lost & Found >	▶ nTouch
FS2 (FINANCE SYSTEM 2.0)	Travel Declaration >	Accident & Incident	Administrator
	Covid-19-related	Management (AIMS)	
	diagnosis and test results declaration	<ul> <li>Integrated Crime Management System (ICMS)</li> </ul>	

(3) After entering the CHRS Learning portal, on the right, search for the course that you need to attend.





(4) Assign the course to yourself



(5) Follow instructions once you are in the course to complete it.



#### COMPULSORY TRAININGS FOR NEW PERSONNEL

Designation	Course	Course Code [Course Platform]	Training Validity	Check	Date completed DD.MM.YY	To be completed
	NUS Requirements on Safety, Health and Emergency Management	OSHGEN03 [CHRS]	one-time			within one-month on joining NUS
	Online Fire Safety Training Course	OSHFS01 [CHRS]	one-time			
Principal Investigator/ Research Staff	Laboratory Safety Induction Training	OSHGEN01 [CANVAS]	one-time			
	Chemical Safety	OSHCHM01 [CANVAS]	3 years			PRIOR to performing activities in the laboratory
	Biosafety for BSL-2 Laboratories	OSHBIO08 [CANVAS]	3 years			

	NUS Requirements on Safety, Health and Emergency Management	OSHGEN03 [CHRS]	one-time		within one-month on joining NUS	
	Online Fire Safety Training Course	OSHFS01 [CHRS]	one-time			
Lab Technologist/	Laboratory Safety Induction Training	OSHGEN01 [CANVAS]	one-time			
Lab Executives	Chemical Safety	OSHCHM01 [CANVAS]	3 years		PRIOR to performing activities in the laboratory	
	Biosafety for BSL-2 Laboratories	OSHBIO08 [CANVAS]	3 years			
	Fire Safety Education Course (FSEC)	Classroom Training [CHRS]	3 years			

Postgraduate Students	Chemical Safety	OSHCHM01 3 years			PRIOR to performing activities in the laboratory
	Biosafety for BSL-2 Laboratories	OSHBIO08 [CANVAS]	3 years		PRIOR to per

	Introduction to Laboratory Safety and Health in NUS - Policy, Principles and Practice	OSHGEN02* [CANVAS]	one-time		PRIOR to entry into the laboratories
Undergraduate / Internship Students	Chemical Safety	OSHCHM01 [CANVAS]	3 years		PRIOR to performing activities in the laboratory
	Biosafety for BSL-2 Laboratories	OSHBIO08 [CANVAS]	3 years		FRIOR to performing activities in the laboratory

	Laboratory Safety Induction Training	OSHGEN01 [CANVAS]	one-time	me		
Collaborators & Visitors <sup>A</sup>	Chemical Safety	OSHCHM01 [CANVAS]	3 years			PRIOR to performing activities in the laboratory
	Biosafety for BSL-2 Laboratories	OSHBIO08 [CANVAS]	3 years			

General note:

E-certificate email notification for ORMC S&H courses will ony be sent out 2-3 days after your fufilment of all course requirements.

#### \*Note for OSHGENO2:

(1) No e-certificate will be issued by ORMC for this module.

#### ^Note for collaborators & visitors:

PI shall identify the training needs for his/her collaborators & visitors. Highly recommended that collaborators working in the laboratories undertake equivalent type of training as those of NUS counterparts.
 Staff or students holding valid chemical safety training certificates from A\*STAR, NTU, Singhealth or SIT and conducting research in NUS would not need to undergo NUS chemical safety training module.
 Staff or students holding valid biological safety training certificates from A\*STAR, NTU, NYP, Singhealth or SIT and conducting research in NUS would not need to undergo NUS biological safety training module.

Name of trainee:

# Appendix B

#### COMPULSORY ACTIVITY-SPECIFIC TRAININGS

Supervisor/PI should determine what supplementary training modules should be taken by individuals.

Courses to be completed prior to performing activities

Designation	Course	Course Code [Course Platform]	Training Validity	Check	Date completed DD.MM.YY	Remarks
	Safe Use & Handling of Hydrofluoric Acid	OSHCHM02 [CANVAS]	one-time			Individuals working with hydrofluoric acid.
	Safe Use & Handling of Pyrophoric Chemicals	OSHCHM03 [CANVAS]	one-time			Individuals working with pyrophoric chemicals.
	Safe Handling of Human Tissue and Fluids	OSHBIO03 [CANVAS]	one-time			Individuals working with materials of human origin eg. tissue, cell line, body fluids etc.
	Safe Needle Usage in Research Laboratories^	OSHBIO06 [CANVAS]	one-time			Individuals working with needles when conducting life science research.
	Safe Handling of Non-human Primate Derived Materials	OSHBIO09 [CANVAS]	one-time			Students and staff members who will be handling Macaque-derived materials.
For relevant personnel	Viral Vector Safety and Regulations Training	OSHBIO10 [CANVAS]	one-time			Individuals working with viral vectors.
	Laser Safety	OSHRAD02 [CANVAS]	3 years			Individuals performing activities involving use of Class 3b or Class 4 lasers.
	Safe Handling of Radioactive Materials	OSHRAD03 [CANVAS]	3 years			Individuals performing activities involving use of radioactive materials or equipment containing radioactive materials (eg. Gauges, Gamma Irradiators).
	Safe Handling of X-ray Machines	OSHRAD04 [CANVAS]	3 years			Individuals using X-ray machines or machines that can produce X-rays.
	Respiratory Protection Programme Training	OSHGEN04 [CANVAS]	1 year			Individuals who are required to wear respirators in the course of their teaching and research work on the correct use of respirators. <u>Refresher course</u> : Respiratory Protection Programme training for returning users [CANVAS]
	Fire Safety Education Course (FSEC)	Classroom Training [CHRS/CES]	3 years			Individuals who will be handling PFMs in the lab and any other laboratory personnel identified by their Principal Investigators (PIs) are required to attend this course. (eg exchange students, visiting scientists and researchers) <u>Refresher course</u> : Fire Safety Refresher Course

General note:

E-certificate email notification for ORMC S&H courses will ony be sent out 2-3 days after your fufilment of all course requirements.

^Note for collaborators & visitors:

(1) staff or students holding valid safe needle usage training certificate from Singhealth and conducting research in NUS would not need to undergo NUS Safe Needle Usage in Research Laboratoris training module.