



JABSOM EH&S

JABSOM Office of Environmental Health & Safety

BSB 112 • 692-1854/692 -1855 • jabsom-ehso@lists.hawaii.edu

<https://jnet.jabsom.hawaii.edu/facilities/ehso/>



Introductions

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UHCC at Kaka'ako

UH Cancer Center at Kaka'ako Researchers:

- UHCC EHSO Technician is **Matt Hiramoto**.
 - mhiramoto@cc.hawaii.edu
 - 440-5210
- Matt's desk is located in the UHCC building A.
- All UHCC training, lab safety, hazardous waste, etc. questions should be directed to Matt.
- Check with Matt about UHCC's specific policies and procedures.
- UHCC faculty and staff working in the Vivarium must be trained in and follow all JABSOM Kaka'ako trainings, specific policies and procedures.



UH Manoa

UH Manoa Researchers (IBR):

- UH Manoa EHSO has a large staff dedicated to the Manoa campus.
 - labsafe@hawaii.edu
 - 808-956-8660
- UH Manoa EHSO is located in the MĀLAMA 1 building at 2040 East-West Road.
- All UH Manoa training, lab safety, hazardous waste, etc. questions should be directed to Leimomi Kekina (kekina@hawaii.edu).
- Check with Leimomi about UH Manoa's specific policies and procedures.
- JABSOM faculty and staff working on Manoa campus must be trained in and follow all UH Manoa trainings, specific policies and procedures.



UH Research Compliance Office oversight

The UH Research Compliance Office website:

<https://researchcompliance.hawaii.edu/>

- The **Research Compliance Office** includes:
 - UH Biosafety Program
 - Institutional Biosafety Committee (IBC)
 - Institutional Animal Care & Use Committee (IACUC)
 - Human Studies Program (HSP)
 - Institutional Review Board (IRB).

- The Research Compliance Office also manages **Animal & Veterinary Service's (AVS)** website: <https://researchcompliance.hawaii.edu/programs/animal-welfare/>

JABSOM EHS:

What do they do? How does this apply to me?



AN OPTIMIST WILL SAY...



A PESSIMIST WILL SAY...



SOMEONE IN THE LAB WILL SAY....

OH GREAT! AN OPEN
UNLABELLED CONTAINER
OF CLEAR LIQUID!!
WE HAVE HEALTH AND
SAFETY FOR A REASON
PEOPLE!



@twisteddoodles

JABSOM EHS:

What do they do? How does this apply to me?



- **JABSOM EHS is responsible for promoting and maintaining a healthy and safe campus environment.**
 - **Lab Safety** – oversees emergency safety showers, eyewash equipment, safety inspections, risk assessments, incident response, and training.
 - **Occupational Health & Safety** – identification and control of workplace hazards such as chemical exposures, air quality, excessive noise, maintaining first aid supplies, respirator fit testing, and evaluating other potentially hazardous conditions.
 - **Environmental Compliance** – maintaining, reporting, and record keeping of hazardous materials required for spill prevention control and countermeasures planning. Monitors compliance with EPA, State, and City regulations with regards to storm water maintenance.
 - **Hazardous Materials** – responsible for transportation, segregation, and storage of potentially hazardous materials and chemicals in compliance with EPA regulations.
 - **Fire Safety** – responsible for maintaining NFPA compliance, fire alarm/suppression system testing, fire hydrant and extinguisher testing, as well as training.





Emergency Evacuation:



EMERGENCY EVACUATION PROCEDURE

FIRE (and Evacuation):

If a fire is detected on campus, these procedures are to be followed:

1. Notify others in the nearby area that there is a fire.
 - If the fire is small, you have been trained to use a fire extinguisher, and there is no one in immediate danger, you may attempt to extinguish a small fire if you can do so safely.
 - DO NOT attempt to extinguish a fire if all three of the above criteria are not met and/or if you do not feel safe doing so.
2. Sound the building's fire alarm at the nearest alarm pull station.
3. Evacuate the building without delay using the nearest emergency fire EXITS (to locate, follow the illuminated "EXIT" signs).
 - DO NOT use the elevator or main lobby stairwell.
 - Assist any physically challenged people to the stairwell landing in an emergency fire exit.
 - Position the individual away from evacuating traffic in the stairwell landing.
 - These individuals should remain there so that trained personnel can return to move them safely.
 - Continue to evacuate the building and once outside, immediately inform HFD, HPD or Security of the individual and location.
4. Once outside of the building, proceed to the predetermined "Evacuation Gathering Area" located at Parking Lot C, Ewa of Research Building and/or Park, DH side of Medical Education/Admin Building and await further instructions.
5. Once at gathering area, check in with department to account for the people in your work area.
6. Notify emergency services (HFD or HPD) of any people still in the building or if you feel that someone is missing.
7. DO NOT return to the building until the Honolulu Fire Department or Honolulu Police Department say you may go back in.

Emergency Evacuation:



Emergency Phone Numbers: UHM DPS Dispatch 9-956-6911

Security Desk: (BSB) 692-1911 & (MEB) 692-0911

Police/Fire/Ambulance 911 *Dial 9-911 when calling from JABSOM phones



UH Safety Trainings:

What is required? What is optional? How often?



- **UH EHSO Initial Lab Safety Training Objective:** to provide uniform requirements for safe operations in labs as outlined in the University of Hawaii **Chemical Hygiene Plan (CHP)** and HIOSH title 12, chapter 204 (incorporating OSHA standard 29 CFR, 1910.1450).
- It is the responsibility of the PI/Supervisor to provide each new lab member with:
 - **Task and Site Specific Training**
 - The **Lab Personnel/Student Safety Checklist** can be used as a guideline and means of documentation.



UH Safety Trainings:

What is required? What is optional? How often?



■ REQUIRED TRAININGS

- ✓ Annual JABSOM Lab Safety Training by EH&S (BIORRAFT)
- ✓ Annual JABSOM Hazardous Waste Generator Training (BIORRAFT)
- ✓ Initial Biosafety & Bloodborne Pathogens Training (BIORRAFT)
 - ✓ Annual Biosafety and Annual Bloodborne Pathogens Refresher Training (BIORRAFT)

■ MAY BE REQUIRED

- Annual Respirator Safety Training & Fit Testing (BIORRAFT)
- Annual Radiation Safety Training (UH Manoa)
- Transportation of Biological Substances (BIORRAFT)
- Additional trainings required for working in the vivarium



■ OPTIONAL TRAININGS

- Fire Safety Training
- First Aid & CPR



BIORRAFT

<https://jabsom.bioraft.com/>

BioRAFT:



JOHN A. BURNS
SCHOOL OF MEDICINE

EHSO

Welcome, Lisa M Johns

[Home](#) | [Support](#) | [Logout](#)

- + Research Management
- + Animal and Veterinary Ser...
- + Biosafety Training Database
- + JABSOM Office of Environ...
- + Meeks Lab
- + Nerurkar Lab
- + ChemTracker
- + Research Tools
- + Training
- + My Account

Welcome to BioRAFT

Announcements

There are no recent announcements

[View All Announcements](#)

[Add Announcement](#)

Required Training

Status	Course Name	Renewal Date
✓	ORC 103 -Transportation of Biological Substances Initial and Refresher	N/A
✓	Biosafety Refresher Training	N/A
✓	Bloodborne Pathogen Refresher Training	N/A
✓	Non-Laboratorian Lab Safety Training	N/A
✓	Respirator Training (Online)	N/A
✓	Hazardous Waste Generator Training (Online)	N/A
✓	Environmental Compliance Training (Online)	N/A
✓	Initial General Biosafety (Classroom)	N/A
✓	Initial Bloodborne Pathogen Standards and Sharps Hazard Prevention (Classroom)	N/A

[Training History](#) | [Course Directory](#)

Compliance E-Mail Inbox

08/26/2021 [Safety Training Overdue](#)

08/24/2021 [LumiSight UH check-ins for BSB](#)

08/23/2021 [Safety Training Overdue](#)

08/16/2021 [Safety Training Overdue](#)

[View Entire Inbox](#)

ObservNow

See a safety concern?
Click to report it.



Compliance Summary for JABSOM Office

JABSOM Office of Environmental Health and Safety Training: ✓

[View Dashboard](#)

SDS Search

[Search SDS Database](#)

Need Support?

Click to view our knowledge base.



BioRAFT:



JOHN A. BURNS
SCHOOL OF MEDICINE
EHSO

Welcome, Lisa M Johns
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Find Individual or Gro

- + Research Management
- + Animal and Veterinary Ser...
- + Biosafety Training Database
- + JABSOM Office of Enviro...
- + Meeks Lab
- + Nerurkar Lab
- + ChemTracker
- + Research Tools
- + Training
- + My Account

Submit A Safety Observation


Everyone's eyes are needed to keep our community safe. This reporting tool is here for you to share with EHSO anything you notice about potential hazards in the environment, especially as related to laboratory research.

For accidents, injuries, or incidents please report through proper institutional channels. This form is only for reporting where injury did not occur.


Information submitted on this form goes to JABSOM EHSO, to help increase safety for our community.

Type of observation: *

Upload photos:

 If a photo of your observation is available, please upload here. (max file size is 20M, supported formats are .jpeg, .png, and .gif)

No file chosen No file chosen

Describe: 

Observation description

Location of Observation

Building:

Space/Room:

Location specifics:

Type of hazard:

Any information filled out on this form is sent directly to EHSO. It is not directly available to your supervisor. However, if you feel comfortable only submitting this without your name associated, check the "Anonymous submission" box below.

Anonymous submission



Responsibilities:

Everyone plays a role in safety, but specific responsibilities are listed below

EH&S

- Assists PIs and employees with development of appropriate chemical hygiene procedures and practices
- Provide guidance on the selection of appropriate PPE
- Upon request, conduct exposure monitoring
- Keep abreast of legal requirements and communicate them appropriately
- Seeks ways to improve the CHP
- Conducts periodic inspections
- Responds to incidents

Principal Investigator

- Provide a safe and healthy work environment
- Implement the CHP
- Develop and implement site and task specific SOPs
- Review and evaluate the CHP and SOPs annually
- Provide the appropriate PPE and Site/Task Specific TRAINING!
- Ensure staff complete all required training
- Conduct periodic inspections
- Know current legal requirements
- Make available their emergency contact information
- Respond to incidents

Lab Worker

- Adhere to lab safety protocols and practices
- Ask questions and express concerns
- Complete all training
- Use equipment & PPE properly
- Comply with Kaka'ako policies
- Report all incidents and near misses
- Know what to do in emergency situations:
- Location of emergency equipment
- Procedures during an emergency
- Emergency contact numbers
- Hazardous spill protocols

Lab Safety



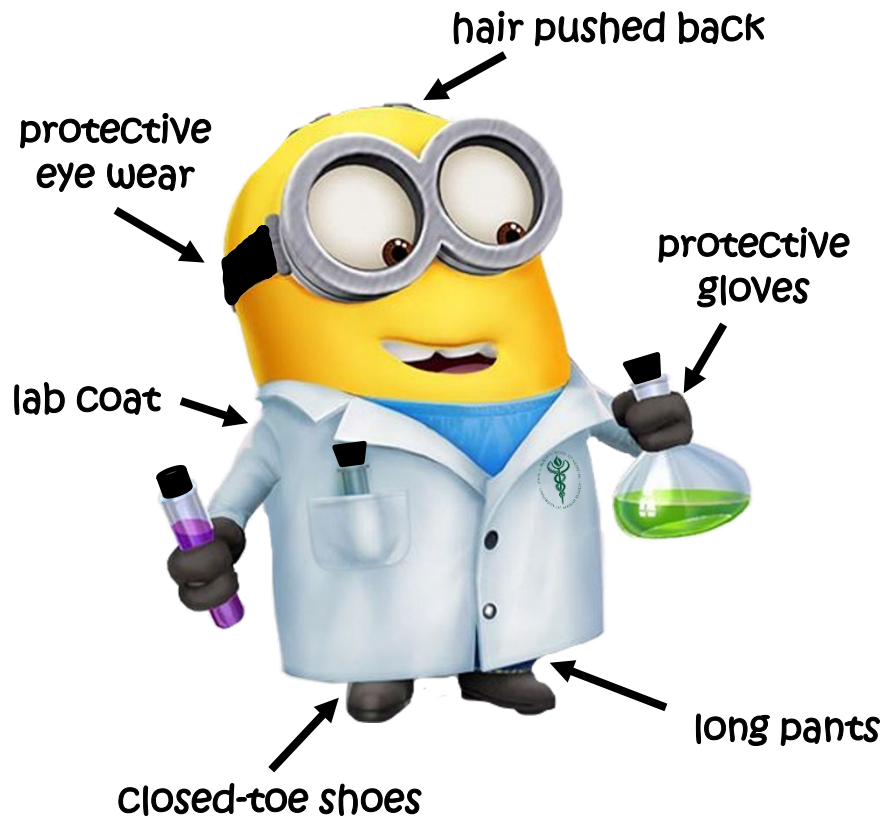
Pusheen the cat, working in the lab.

The cat is not wearing safety goggles, gloves, or lab coat. Nothing is labeled and she is holding the flask way too close to her face. She hasn't even bothered to clean up the spilled solvent.

Pusheen the cat, more like Pusheen the limits of lab safety.

Laboratory Attire Policy

Personal attire while in the laboratory plays a major role in determining the level of risk of exposure to hazardous agents and of physical injury. Appropriate PPE and clothing provide an extra layer of protection against spills and splashes. APPROPRIATE LAB ATTIRE INVOLVES COVERING THE TORSO, LEGS, AND FEET.



NO SLIPPERS!



What is Risk?

What is a Risk Assessment?



Laboratory hazards and risks can be managed using **RAMP**:

1. **Recognize** or identify hazards
2. **Assess** the risk associated with that hazard
3. **Minimize** risks by elimination, substitution, controlling the hazard, or use of PPE
4. **Prepare** for emergencies

Why should we do laboratory risk assessments: <https://www.youtube.com/watch?v=mYTalTYUEKE>



Working Alone in the Lab

As a Graduate Student, there are times when you may have to work late, and few people are around.

- Risk of accidents increases the later the hour due to fatigue and rushing to finish and lack of supervision.
- Response time is greatly increased during evening hours due to limited presence of building occupants, so a buddy system must be followed.

Graduate Students Working Late:

- Working alone must be approved by PI
- Risk assessment of hazards and personnel associated with the work must be conducted. The Laboratory Risk Assessment Training (Lab R.A.T.) form can be found on the JABSOM EHS website under Forms.
- Notify someone else in the area – this buddy should be knowledgeable of the work and aware of emergency procedures
- Routine checks should be done every 15-30 minutes.
- Let security know you are working in the building. Provide location and phone number.

<https://www.youtube.com/watch?v=Y8DBd45W4hY>

Working Alone in the Lab

BioRAFT – Permission to Work Alone

Submit Permission to Work Alone

This applies to any work that will be performed alone involving hazardous materials, procedures or equipment. It is up to each Principal Investigator (PI) to determine what level of hazard is permissible for working alone in their group. **Working alone with pyrophorics (substances that ignite spontaneously when exposed to air) is always prohibited. Working alone with machine shop equipment (lathes, band saws, etc.) is always prohibited.**

Applicant Info | **Work to Be Done** | **Review & Submit**

Please indicate the spaces and times during which you would like to work alone with the identified hazardous material or hazardous equipment.

JABSOM Office of Environmental Health and Safety Personnel: *

Laczko, Rozalia

Name:
Laczko, Rozalia

Designation:
Co-Investigator

Principal Investigator:
Johns, Lisa

Emergency Phone Number: *

Alternate Telephone Number:

Spaces:

- Biosciences Building - 112 - EHSO office
- Biosciences Building - 113 - Waste Storage
- Biosciences Building - 113A - Chemical Waste Storage
- Biosciences Building - 113B - EHS Storage
- Biosciences Building - 113C - Biological Waste Storage
- Biosciences Building - 114 - chemical (waste& access for donation) and supply storage
- Biosciences Building - 116 - JABSOM Stockroom

Hours Requesting Access to Lab: * [] to: * []

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Applicant Info | **Work to Be Done** | **Review & Submit**

Short Description of Work to be Done: *

Please describe the specific type of work to be done (synthesis of X compounds, preparation of X samples, running of X equipment, conducting X type of experiment).

Hazards Associated with the Work:
Please indicate the hazards associated with your materials, procedures, or equipment. If "Other" is checked, please indicate the specific hazard(s).

- Strong Acids / Bases
- Flammable Liquids
- High Heat
- PHS
- Other

Describe the procedures implemented to mitigate risks from the hazards above: *

Plan if worker cannot summon help: *

- Physical Check By [] every [] min.
- Remote Check By [] every [] min.
- Other Means []
- N/A - Work not likely to incapacitate

Click on the next tab at the top to navigate to the next page.

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Applicant Info | **Work to Be Done** | **Review & Submit**

Review & Submit

By submitting this application for review, you are attesting that the applicant has completed Lab Safety and Hazardous Waste training at John A. Burns School of Medicine. In addition, they have received training in the proper experimental and emergency procedures from the principal investigator and understand those procedures for the work they are authorized to do.

Once the Principal Investigator and EHSO approve this Form, this document will serve as an official record of the applicant's compliance with John A. Burns School of Medicine's Chemical Hygiene Plan.

Before you submit, please review the information provided and ensure that it is accurate and complete. If any aspect of the work related to these hazards changes, return to this form by navigating to the forms section in your laboratory profile to make necessary alterations.

This Permission is valid until:

Expiration Date

Duration of Permission

[]

Submit

Working Alone in the Lab

Manoa Guardian App



DOWNLOAD OUR CAMPUS SAFETY APP MĀNOA GUARDIAN

Download on the App Store | GET IT ON Google Play | Rave Guardian


STEP 1: Search for RAVE GUARDIAN in your app store.
Download app and log in with your hawaii.edu email to configure your account to UH Mānoa settings.

STEP 2: You're now a Mānoa Guardian! Use your app to...

- CALL OR TEXT UH MĀNOA DPS**
Report a crime or suspicious activity by clicking the **CALL UHM DPS** button to place a phone call, or select **SUBMIT TIP** to send a text message. You can even attach a photo with your tip.
- SET A SAFETY TIMER**
Walking alone on campus? Set a **SAFETY TIMER** to notify Guardians (selected contacts or DPS officers) where you're going. If your safety timer expires before you deactivate it, your Guardians will be notified.
- VIEW EMERGENCY INFORMATION**
Click on **CONTENT DIRECTORY** to view emergency response procedures and other important information. The **CALL DIRECTORY** button hosts phone numbers for the Campus Safety Escort and important UH Mānoa offices.

STEP 3: Ask friends to join and grow the Guardian network!

www.manoaguardian.com
@UHManoaSafety




DOWNLOAD OUR CAMPUS SAFETY APP MĀNOA GUARDIAN

Download on the App Store | GET IT ON Google Play | Rave Guardian

WHY USE MĀNOA GUARDIAN?

- When you call, text, or set a safety timer, YOU CAN ENABLE LOCATION SHARING** to allow officers to pinpoint your location on a campus map to send help immediately. *(Please note: DPS can only view your location during contact if you enable this feature each time.)*
- FRIENDS AND FAMILY CAN USE MĀNOA GUARDIAN** to become a part of your **SAFETY TIMER** session. Create your own safety community to notify selected contacts or DPS if you need someone to know where you will be. Friends and family without a UH email can still download a non-UH version of the app to be added to your Guardian network.
- YOUR SMART 911 PROFILE** allows you to add as much (or as little) information as you wish, including any health concerns, allergies, or other details that may be helpful to emergency responders.

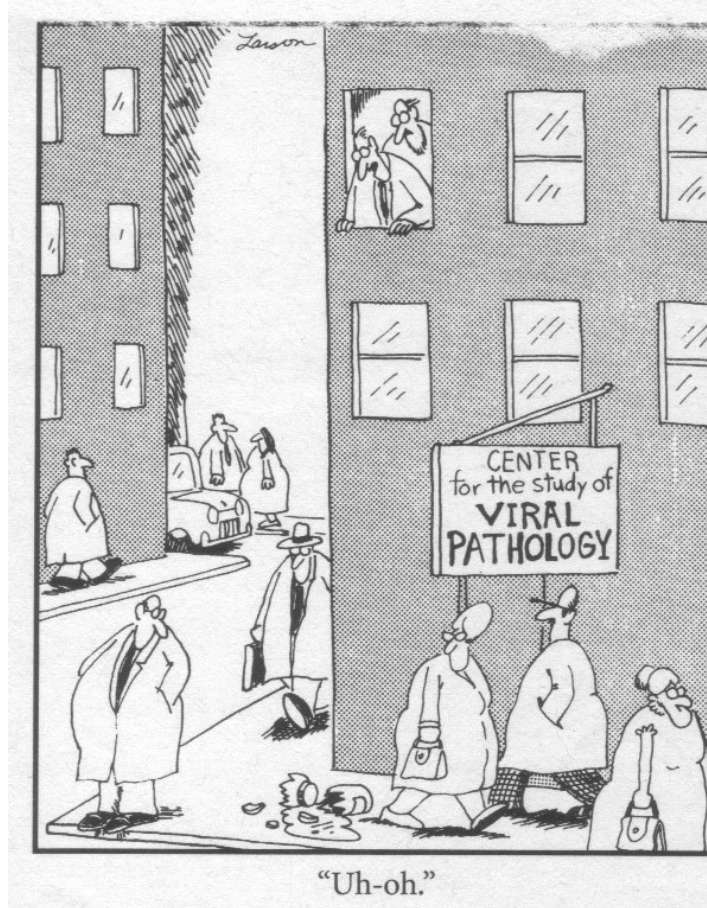


www.manoaguardian.com
@UHManoaSafety

- The Guardian App safety timer can be used as a remote check.
- Your PI and/or lab buddy can be added as a “guardian”.
- The app does not track an individual unless the safety timer goes off.
- It is important to add specific location (building/floor/room number) when starting the timer.
- Detailed information and instructions can be found in the video link below:

<https://www.youtube.com/watch?v=9sVj2Os25ow>

Incident & Near Miss Reporting





Incident & Near Miss Reporting

Incident and near miss reporting is a tool that documents any event that may or may not have led to injuries or damage.

- Reporting helps to determine causes and corrective actions needed in order to minimize risks and prevent similar occurrences in the future.
- The goal is to identify areas in need of improvement to protect everyone, not to assign blame.
- Even near misses and “minor” incidents must be reported. Just because it didn’t result in an injury once doesn’t mean it didn’t have the potential to do so. By reporting near misses, you are not only protecting yourself, but those that may conduct similar experiments.
- Please report incidents and near misses in a timely manner and be as detailed as possible. Again, this is to help us improve safety systems, controls and training.

We hope you do not experience an incident or near miss, but in the event something happens, please help us make this a safer place by reporting.

Work Requests

We rely on building occupants to notify us when repairs are needed. Especially in lab spaces.

Work requests can be submitted at: <https://jweb.jabsomit.hawaii.edu/workrequest/>

- Please be specific in location and provide as much detail as possible.

Work Request Form

Today is Wednesday, August 24, 2022

UH JABSOM Facilities Management Office
Basic Work Request Form

Date	<input type="text" value="8/24/2022"/>	Department:	<input type="text"/>
Requester:	<input type="text"/>	Requester Room Number:	<input type="text"/>
Requester email:	<input type="text"/>	Building/Area:	<input type="text" value="Select One"/>
Phone Number:	<input type="text"/>		
Category:	<input type="text" value="Select One"/>		
Description and Location of Work:	<input type="text"/>		
Attachment:	<input type="button" value="Choose File"/> No file chosen <input type="button" value="Clear"/>		

You can attach a single file up to 5 Mb in size to this request. *If you have multiple files, place them into a compressed file folder*

After submitting this request, you will receive a confirmation e-mail.

Note: Please allow five (5) working days for the JABSOM Facilities Management Office to respond to your request. Mahalo!

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The site will not work on wifi connections.

MAHALO & STAY SAFE!



Lisa Johns

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