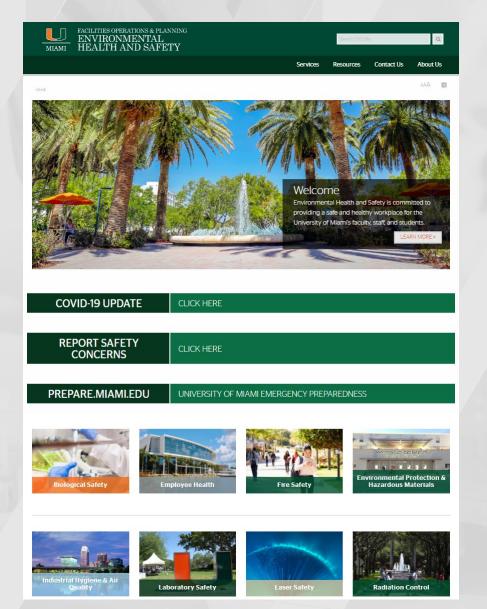


Environmental Health & Safety



- Biosafety & Lab Safety
- Laser Safety
- Hazardous Materials Management
- Industrial Hygiene & Air Quality
- Fire Safety
- Radiation Safety
- Employee Health

Biosafety Office



- Shane Gillooly
 - Biosafety Officer



- Melanie Peapell
 - Biosafety Specialist & Laser Safety Officer
 - Dangerous Goods Shipping Coordinator



- Marleina Drane
 - Biosafety Specialist
 - Lab Inspection Coordinator

Biosafety Office Mission

Welcome to the University of Miami Biosafety Office

Our mission is to provide resources and expertise regarding the assessment and control of biological hazards to all UM research stake holders across labs, clinics, classrooms, and facilities.

Biosafety & Biosecurity Month



Crisis Essentials

Being Prepared for an Emergency Response

- Update Chemical Inventories Annually
- Submit a Biological Registration
- Update Emergency Contact Information

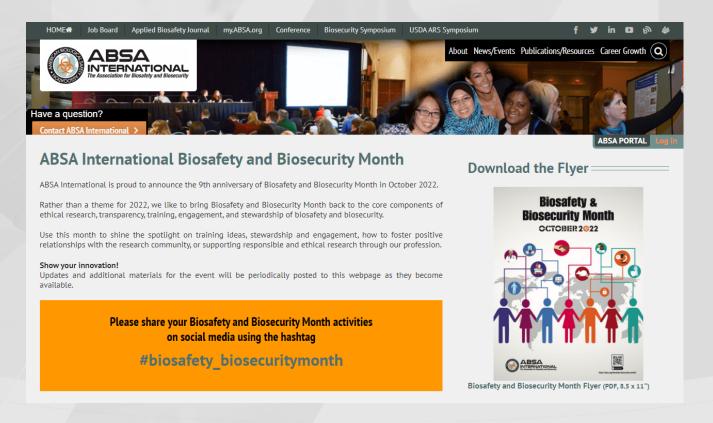


Environmental Health & Safety Biosafety Office ehs.miami.edu/biosafety



What is Biosafety Month?

- NIH designated, ABSA sponsored
- Month to encourage institutions to highlight importance of biosafety and strengthen their biosafety programs



Selecting This Years Theme







Chemical Inventory

Chemical Inventory

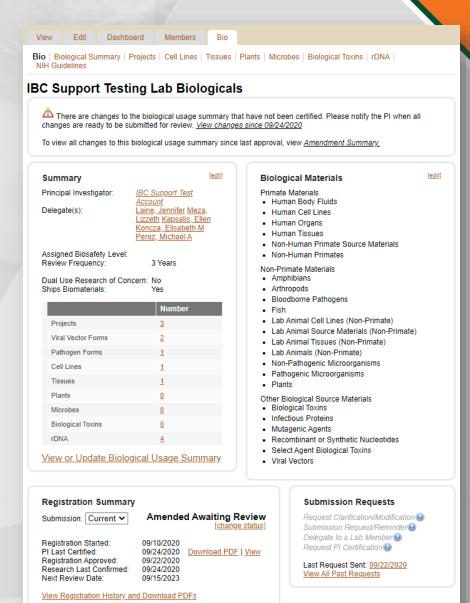
- OSHA federal requirement
- Must be updated annually
- Chemical inventory template EHS Website > Biosafety > Resources

	Laine La	b Chemical In	ventory		
			,		
Princi	pal Investigator	Dr. Jennifer Laine			
Building All Lab Room Number(s)		Dominion Tower			
		January 10th, 2022			
		Chemicals of interest are highlighted in yellow			
Chemical Name (including concentration,		Poom Location (s)		Estimated	Chemical
if applicable)	CAS#	Room Location(s) of Chemical	Location in Room		of Interes
Hydrochloric Acid 37%	7647-01-0	405	Acids Cabinet	1 gallon	Y
Sodium acetate	127-09-3	405, 406	Bench A	1kg	N



Biological Registrations

- All labs conducting any biological research must submit a registration using the bio-module in BioRaft
 - Captures all biological lab work
 - Recombinant DNA will go to IBC for review
- Registration approvals last for 3 years
 - Requires annual certification
 - Amendments required when:
 - Research plans change
 - New materials introduced
 - New researchers joining the lab



BioRAFT Guidance

BI()RAFT

The purpose of the biological registration module in BioRAFT is to catalogue and summarize the types of work conducted across the varying disciplines of biological research at the University of Miami. The directive for rolling out the new biological registration program was initiated by University leadership and is a joint effort between the <u>Biosafety Office</u> and the <u>Institutional Biosafety Committee</u> (IBC).

The biological registration process is backed by the IBC and supported by University leadership. While unlikely, all biological registration submissions are subject to IBC review as needed.

This guide provides an overview and clarification of the biological registration submission process through BioRAFT. If there are any additional questions you may have, please reach out to us at biosafety@miami.edu.

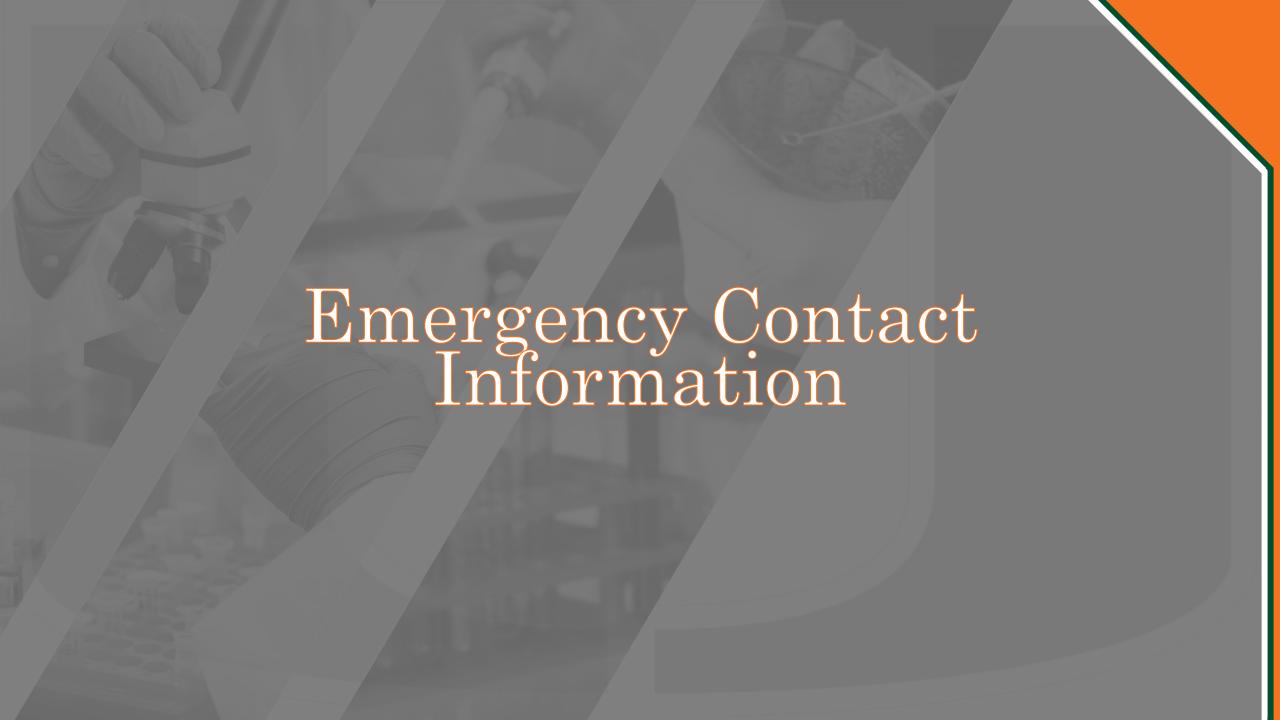
See below for in-depth, step-by-step submission guidance and to login to BioRAFT.

BIORAFT PI QUICK START

BIORAFT STEP-BY-STEP GUIDE

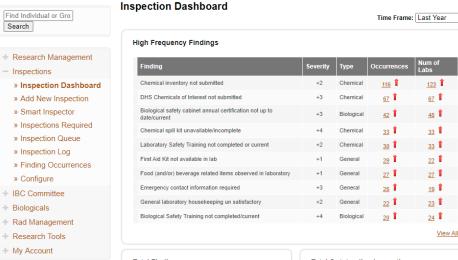
BIORAFT LOGIN

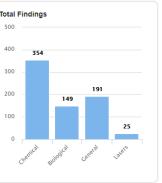
- ehs.miami.edu/biosafety
- https://research.miami.edu/about/admin-areas/raa/ibc/registration-guide/index.html

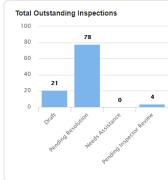


BioRaft Platform

- Lab profile contacts
 - Emergency numbers should not be office lines









Inspection Statuses									
Inspection Type	Draft	Pending Resolution	Needs Assistance	Pending Inspector Review	Finalized	Total			
Annual	<u>17</u>	<u>75</u>		<u>4</u>	112	208			

Emergency Contact Card

UNIVERSITY OF MIAMI	Laboratory Safety							
U	Information							
Principal Investigator: Lab Safety Contact: Secondary Contact: Department: Building:	Office	e Phone: e Phone: e Phone:	Cell Phone: Cell Phone: Cell Phone:					
Chemical Hazards								
☐ Air/Water Reactives ☐ Carcinogens ☐ Corrosives ☐ Explosives	Gas Cylinder Oxidizers Poisons/Toxin	(6)	☐ Waste Chemicals ☐ Cryogens ☐ Flammables 🍻					
Other Hazards								
Animals	Risk Group 2 Agents	Laser	☐ Radioactive Material					
Important Contacts								
CALL 911 (9-911 from UM Phone) FOR EMERGENCIES Campus Safety 305-284-6666 (Gables Campus) Public Safety 305-284-6000 (Medical Campus) Environmental Health and Safety (EHS) 305-243-3400								
Building Address: Date Form Last Updated:								

Wrap Up & Resources

Biosafety Office Website

FACILITIES OPERATIONS AND PLANNING 3 HOME 3 SERVICES 3 BIOLOGICAL SAFETY

Biological Safety

Biological Safety

Biohazardous Emergencies

Training

Biological Protocol Review

Shipping of Dangerous Goods

Laboratory Inspections

Equipmen

Frequently Asked Questions

Resources

Employee Health Office

Fire Safety

Hazardous Materials

Industrial Hygiene and Air Quality

Laboratory Safety

Laser Safety

Safety Data Sheets

Radiation Control

RELATED LINKS

Occupational Health Program

BIORAFT



Our mission is to provide resources and expertise regarding the assessment and control of biological hazards to all UM research stake holders across labs, clinics, classrooms, and facilities.



blosafety@mlaml.edu 305-243-3269

We offer a variety of services to our campus researchers and clinicians as outlined in the links below. Please reach out to us if there is anything further we can do for your lab! Biosafety Officer

Shane Gillooly

786-797-0387

Biosafety Tech, Laser Safety Officer Dangerous Goods Shipping Coordinator

Melanie Peapell

305-389-9931

Biosafety Tech

Marleina Drane

954-322-1113

Exposure & Spill





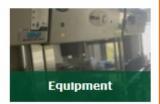












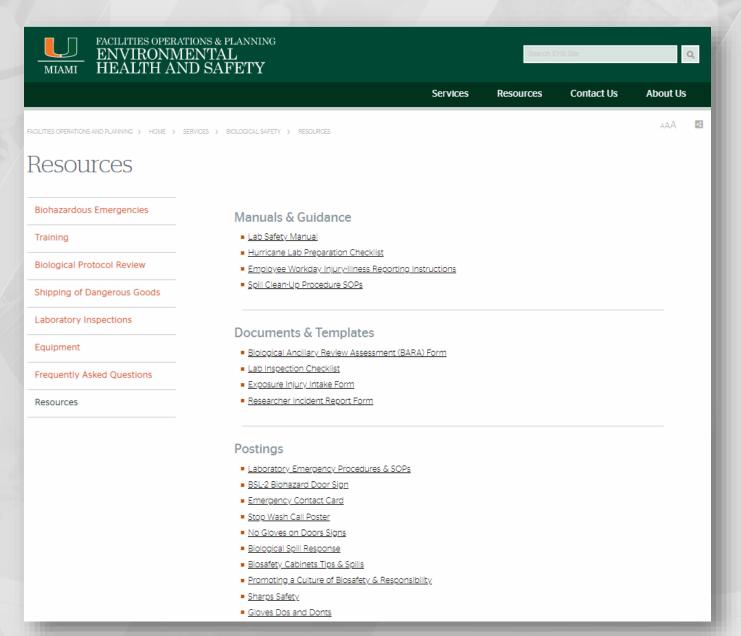






ehs.miami.edu/biosafety

Resources



Signage & Postings

Laboratory Gloves: Do's & Don'ts Sharps Safety

Do's

- Wear gloves when working in
- Always remove gloves when leaving the lab
- Select glove material appropriate to the task, consider the hazard:

Notify o

leave t

post s

preve

For ass

Risk Gro

call

305-2

Cover s

with a

Allow a

contac

Clean

and:

repeating steps 5-8

Remove PPE and

wash hands

- · Biological, Chemical, Radioactive, Sharp,
- **Extreme Temperatures** · Consult a glove material guide if needed
- Check the glove for holes or damage prior to use
- Change gloves when contaminated or damaged
- Dispose of your used gloves in an appropriate waste container
 - · Glove waste must be segregated on hazard
- Always wash your hands after removing gloves

Doffing











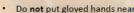
Dispose Glove

Wash Hands

ehs.miami.

Don'ts

- Do not reuse disposable gloves
- · Afterall, they're disposable!
- Do not touch doors or door knobs
 - · When going between labs, use the "One Glove" technique by holding your sample with your gloved hand while touching the door with your nongloved hand
- Do not touch common equipment or surfaces with gloves, unless signage is present that indicates PPE is necessary for the surface



@ the University of Miami

Dispose of sharps in a designated container Dispose of the sharps container when it is ¾ full Keep a sharps container on hand Make no effort to recap when disposing

Don't

No **Floves**



Technique

other hand

sides, not near the top

biosafety@miami.edu

Biosafety Office

EH&S

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EMERGENCY PROCEDURES

Environmental Health

Emergency Numbers

Dial 911 from Cell Phones or Dial 9-911 from UM Phones **Important**

Public Safety Phone Numbers

Numbers Facilities - Coral Gables - 305-284-8282 – Medical – 305-243-6375 RSMAS - 305-421-799

- RSMAS - 305-421-4066 Employee Health - 305-299-4684 (24 hours)

Environmental Health and Safety (EHS) - 305-243-3400 ehs.miami.edu

Coral Gables - 305-284-6666 Medical - 305-243-6000

Immediate Action

For incidents that pose a risk to Life/Building/Equipment inside the lab or is a risk to persons outside the lab space:

1. Pull Fire Alarm and Evacuate Building

2. Dial 911 (9-911 from UM Phones)

Non-Immediate Actio

1. Evacuate and avoid area 2. Contact Facilities

3. Contact EHS - 305-243-3400

Chemical/Biological Exposures

If the incident involves a chemical or biological exposure that is life threatening:

Room Number of this Lab

. Use eyewash, sink, or emergency shower to rinse exposed area for 15 minutes

2. Call 911 (9-911 from UM) and report

Inhalation Exposure

- 1. Leave lab and move victim to fresh air 2. Call 911 (9-911 from UM) and report
- 3. If chemical is known, print 3 copies of SD

EXPOSURES & NEEDLESTICKS

STOP → WASH→ CALL





..for <u>15 Minutes</u>





EHS 305.243.3267



ate clean a time for a

he cabinet

Post Incident

The nature of the incident e.g. fire, medical emergency, exposure

- . Call Employee Health at 305-243-3267 (9am 5pm) or 305-299-4684 (after hours) to report
- 2. Submit the Exposure/Injury Intake Form to Employee Health

Tell them if you think you will need an ambulance

3. If biohazardous in nature, submit the Research Incident Report Form to biosafety@miami.edu

n the Biosafety Cabinet

If assistance is needed, close EHS at

run for 10 minutes



Environmental Hea

..all work in lab



Employee Health

Door Knobs!

No Gloves on

Questions

- Contact the Biosafety Office:
 - **305-243-3269**
 - biosafety@miami.edu
- Contact Shane directly:
 - **■** 786-797-0387
 - sxg1519@med.miami.edu
- Visit our Website!
 - ehs.miami.edu/biosafety

