



Biosafety & Biosecurity Month

Biological Research Requires a Multi-Disciplined
Safety Response

Environmental Health & Safety - Biosafety



What is EHS?

Environmental Health & Safety

FACILITIES OPERATIONS & PLANNING
ENVIRONMENTAL
HEALTH AND SAFETY

Services Resources Contact Us About Us

HOME AAA

Welcome
Environmental Health and Safety is committed to providing a safe and healthy workplace for the University of Miami's faculty, staff, and students.
[LEARN MORE >](#)

COVID-19 UPDATE [CLICK HERE](#)

REPORT SAFETY CONCERNS [CLICK HERE](#)

PREPARE.MIAMI.EDU UNIVERSITY OF MIAMI EMERGENCY PREPAREDNESS

Biological Safety Employee Health Fire Safety Environmental Protection & Hazardous Materials

Industrial Hygiene & Air Quality Laboratory Safety Laser Safety Radiation Control

- Biosafety
- Chemical Safety
- Laser Safety
- Hazardous Materials
- Industrial Hygiene & Air Quality
- Fire Safety
- Radiation Control

Biosafety



- Shane Gillooly
 - Biosafety Officer



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



- Quintin James
 - Biosafety Specialist
 - Lab Inspection Coordinator

Others at EHS



- Jennifer Laine
 - Executive Director



- Adrian Hernandez Ferrer
 - Chemical Hygienist



- Raul Garcia
 - Industrial Hygienist



- Christine Daley
 - Fire Safety Manager



- Brian Cumbie
 - Hazmat Manager



- Brian Reding
 - Hazmat Specialist



- Abraham Somoza
 - Hazmat Specialist



- Noelia Estevez De Rosario
 - EHS Specialist

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.

- Communication issues with BioRAFT (Scieshield)



ABSA
INTERNATIONAL
The Association for Biosafety and Biosecurity

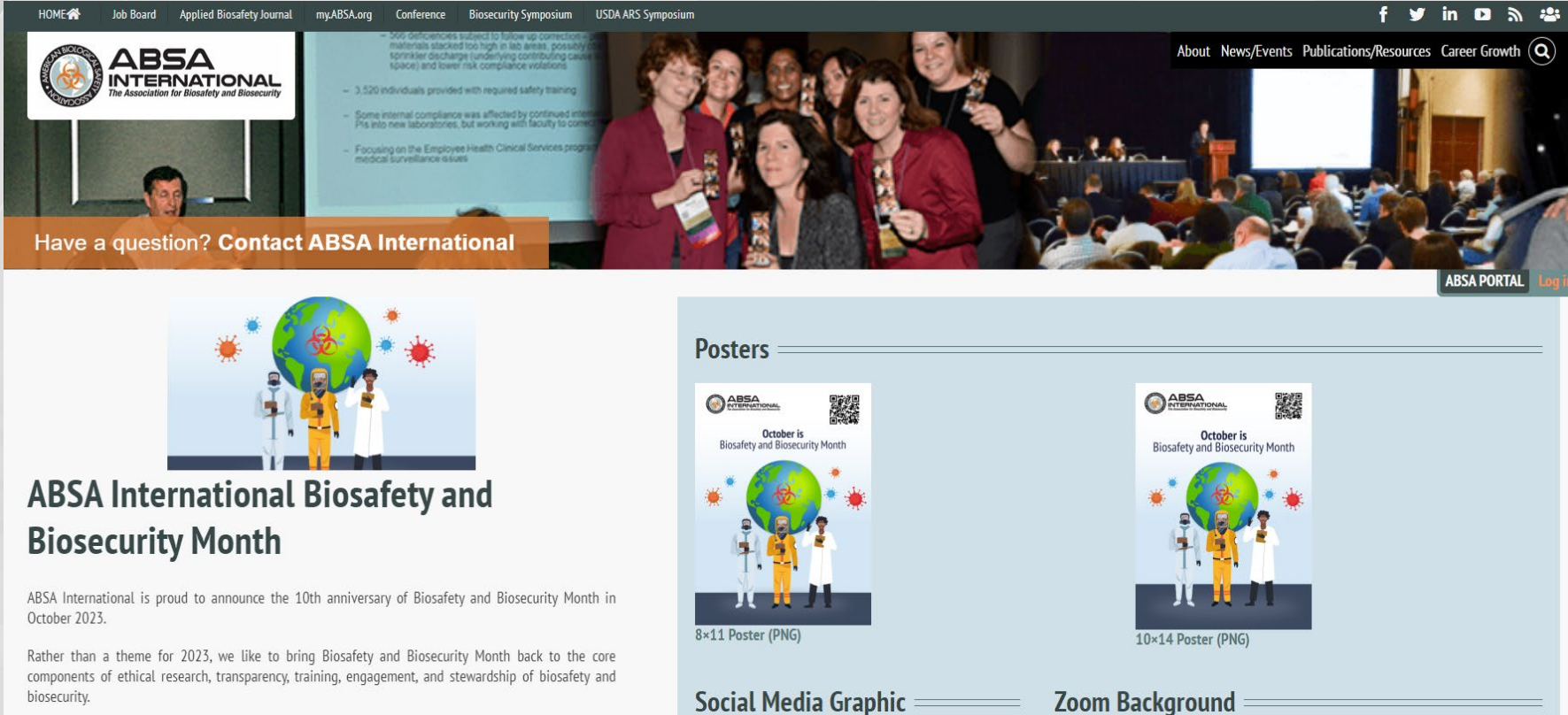


October is
Biosafety and Biosecurity Month



What is Biosafety Month?

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



The screenshot shows the ABSA International website homepage. At the top, there is a navigation bar with links for HOME, Job Board, Applied Biosafety Journal, my-ABSA.org, Conference, Biosecurity Symposium, and USDA ARS Symposium. On the right side of the navigation bar are social media icons for Facebook, Twitter, LinkedIn, YouTube, RSS, and a group of people icon. Below the navigation bar is a header section with the ABSA International logo and tagline "The Association for Biosafety and Biosecurity". To the right of the logo is a list of statistics: "509 deficiencies subject to follow up corrections", "materials stacked too high in lab areas, possibly causing sprinkler discharge (underlying contributing causes: space) and lower risk compliance violations", "3,520 individuals provided with required safety training", "Some internal compliance was affected by continued interm...", "Pis into new laboratories, but working with faculty to correct...", and "Focusing on the Employer Health Clinical Services program medical surveillance issues". Below the statistics is a photograph of a group of people at a conference. To the right of the photograph is a navigation menu with links for About, News/Events, Publications/Resources, and Career Growth, along with a search icon. Below the header is a banner with the text "Have a question? Contact ABSA International". To the right of the banner is a button for "ABSA PORTAL Log in". Below the banner is a large graphic with the text "ABSA International Biosafety and Biosecurity Month" and an illustration of three people in lab coats standing in front of a globe with a biohazard symbol. Below the graphic is a paragraph of text: "ABSA International is proud to announce the 10th anniversary of Biosafety and Biosecurity Month in October 2023. Rather than a theme for 2023, we like to bring Biosafety and Biosecurity Month back to the core components of ethical research, transparency, training, engagement, and stewardship of biosafety and biosecurity." To the right of the graphic are two posters: an 8x11 Poster (PNG) and a 10x14 Poster (PNG). Below the posters are two buttons: "Social Media Graphic" and "Zoom Background".

HOME Job Board Applied Biosafety Journal my-ABSA.org Conference Biosecurity Symposium USDA ARS Symposium

ABSA INTERNATIONAL
The Association for Biosafety and Biosecurity

509 deficiencies subject to follow up corrections
materials stacked too high in lab areas, possibly causing
sprinkler discharge (underlying contributing causes:
space) and lower risk compliance violations

3,520 individuals provided with required safety training

Some internal compliance was affected by continued interm...
Pis into new laboratories, but working with faculty to correct...

Focusing on the Employer Health Clinical Services program
medical surveillance issues

About News/Events Publications/Resources Career Growth

Have a question? Contact ABSA International

ABSA PORTAL Log in

ABSA INTERNATIONAL
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8x11 Poster (PNG)

10x14 Poster (PNG)

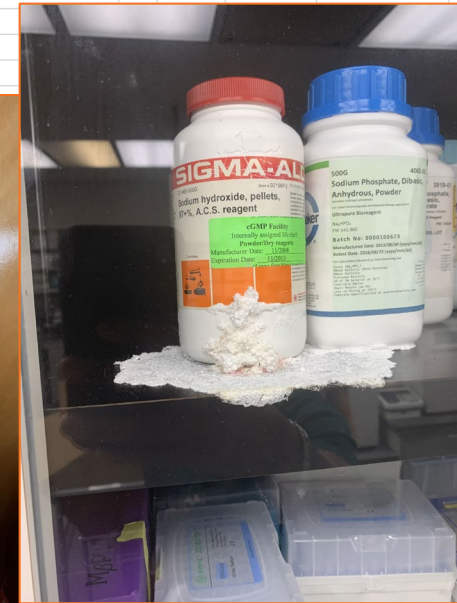
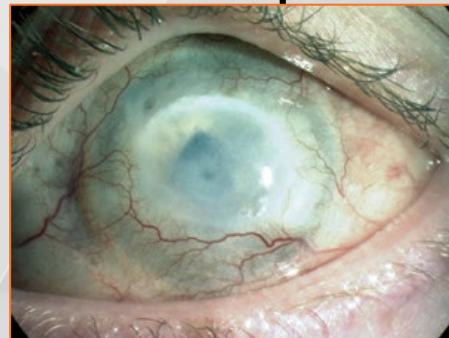
Social Media Graphic Zoom Background



Biological Research Requires a Multi-Disciplined Safety Response

Chemical Safety

- Commonly found in every lab
 - Splash hazards not always obvious
 - Safety glasses often overlooked
- Segregation of chemicals
 - Ie, flammables vs corrosives
- Chemical Inventory
 - Regular, annual updates
 - See EHS provided template



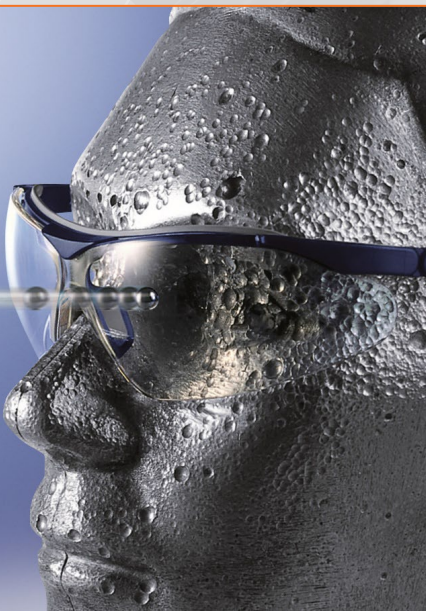
YOUR NAME HERE Lab Chemical Inventory

Principal Investigator YOUR NAME HERE
Building Lab's Building name
All Lab Room Number(s) 405, 406, 406-B
Date Last Revised 25-Jan-23
Note: [Chemicals of Interest are highlighted in yellow](#)

Chemical Name (including concentration, if applicable)	CAS #	Room Location(s) of Chemical	Location in Room	Estimated Amount (units of measure)	Hazard Class	Vendor or Manufacturer
Hydrochloric Acid 37%	7647-01-0	405	Acids Cabinet	1 Gallons	Corrosive to metal	Sigma-Aldrich
Sodium acetate	127-09-3	406, 406-B	Bench A	2 Kg		LabChem
Methanol	67-56-1	406	under Hood 1	3 L	Flammable	Fisher

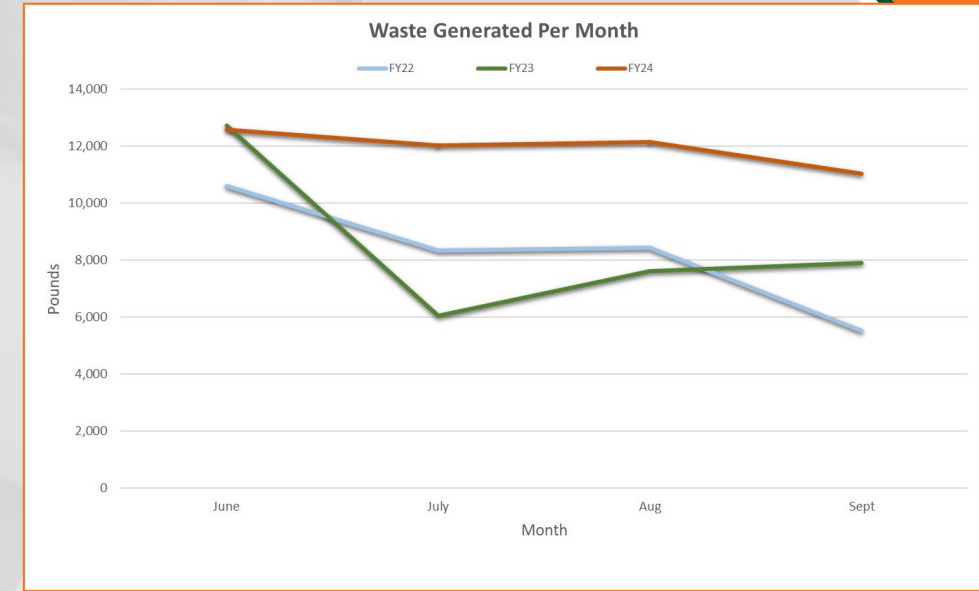
General Safety

- Projectiles can occur unexpectedly
- Any physical thing can be a projectile
 - Be thoughtful when applying force
 - Again, safety glasses are critical
- “Standard” PPE?
- Broken glass and other hazards



Hazardous Material Management

- Hazardous materials waste is regulated
 - Real risks and perceptual risks
- UM waste generation trends
 - Chemical Waste Disposal Form
 - See EHS website – ehs.miami.edu



Approved Biomedical Waste Supplies by Company

Container	Size	VWR	Grainger	Uline	Fastenal
Red Bags	10 Gal	89092-410	5KRC2	S-12984	F2400XR
Red Bags	20 Gal	89092-414	39P017	S-20849	G3600XR
Red Bags	5 Gal	89092-448	3UAF4		F1800XR
Red Bags	1 Gal	89092-444	3UAF2		
Boxes	Floor	56617-807	9TXM5		7021460
Boxes	Bench Top	56617-810	8UK88		7021459
Sharps Containers	8 Gal Floor	19001-010	3UTE9		
Sharps Containers	2 Gal Bench	19001-008	3UTE7	S-22218	
Sharps Containers	1 Gal Bench				1051626

- In the state of Florida, biomedical waste supplies are required to comply with ASTM D-1709-91 and D-1922-89
- EHS has compiled a list of products compliant with the FLDOH for proper storage of biohazardous waste in labs
- Required labeling on waste bags/boxes:
 - Room number
 - Building street address
 - City where the waste was generated.

Fire Safety

- Chemicals
- Electrical
- Storage
- Lab emergency contacts





Major Changes This Year

Corrective Action Policy Update

- Lab inspection and corrective action policy
- Use BioRAFT (Scishield) for previous findings
- All previous years must be addressed

The screenshot displays the University of Miami BioRAFT system interface. At the top, the University of Miami logo is on the left, and the user name "Welcome, Gillooly, Shane David" with links for "Home", "Support", and "Logout" is on the right. Below the header, there are navigation tabs for "View", "Edit", "Dashboard", "Members", and "Bio". A secondary navigation bar includes "View", "Spaces", "Documents", "Forms", "Notes", "Lab Inspections", and "Correspondence".

On the left side, there is a search box labeled "Find Individual or Group" and a "Search" button. Below this is a sidebar menu with expandable items: "Research Management", "Inspections", "IBC Committee", "Biologicals", "Rad Management", "Research Tools", and "My Account".

The main content area is titled "Name Laboratory Inspection Log" and "Required Inspections". It features a table with the following data:

Inspection Type	Relevant Requirement	Next Required	
Annual	Annual	Date	Inspect Now

Below the table, there are filters for "Inspection Type" (set to "<All>"), "Status" (set to "Pending Resolution"), and "Confirmation Status" (set to "<All>"). There are also input fields for "Performed After" and "Performed Before" with calendar icons. A "Submit" button is located to the right of the filters.

At the bottom, there is another table with the following data:

Date	Inspection Type	Inspected By	Resolved Findings	Status	
Date	Annual	Peapell, Melanie	6 / 22	Pending Resolution	View

Links for "Add a new Inspection" are present at the bottom right of the interface.

Emergency Contact Availability

- Must be provided on:
 - Lab Safety Info & Emergency Contact Card
 - BioRAFT Lab Profile Dashboard

The screenshot shows the BioRAFT Lab Profile Dashboard for the IBC Support Testing Lab. The page header includes the University of Miami logo and navigation links. The main content area is divided into several sections:

- Contact Info:** Principal Investigator: IBC Support Test Account; Department: Dominion Tower 1205; Room Number: 1205; Mail Code: [redacted]; Phone 1: 305-243-2311; Phone 2: [redacted]; Fax Number: [redacted].
- Compliance Summary:** Biological: [redacted]; Radiological: [redacted].
- Safety Contacts:** No safety contacts assigned.
- Research Focus:** Testing bioraft; Lab Categories: Research Lab, Teaching Lab, Shared Facility; Major Hazard Categories: No Hazards; Hazards Last Certified by PI: Never Require Recertification.

At the bottom, the lab status is shown as Inactive, and the emergency shutdown status is Not Indicated.

The screenshot shows the Laboratory Safety Information form. The form is titled "Laboratory Safety Information" and includes the University of Miami logo. The form is divided into several sections:

- Principal Investigator:** [redacted]
- Office Phone:** [redacted]
- Cell Phone:** [redacted]
- Lab Safety Contact:** [redacted]
- Office Phone:** [redacted]
- Cell Phone:** [redacted]
- Secondary Contact:** [redacted]
- Office Phone:** [redacted]
- Cell Phone:** [redacted]
- Department:** [redacted]
- Building:** [redacted]
- Room:** [redacted]

The form also includes sections for **Chemical Hazards**, **Other Hazards**, and **Important Contacts**.

Chemical Hazards:

- Air/Water Reactives
- Gas Cylinders
- Waste Chemicals
- Carcinogens
- Oxidizers
- Cryogenics
- Corrosives
- Poisons/Toxins
- Flammables
- Explosives

Other Hazards:

- Animals
- Risk Group 2 Agents
- Laser
- Radioactive Material

Important Contacts:

CALL 911 (9-911 from UM Phone) FOR EMERGENCIES

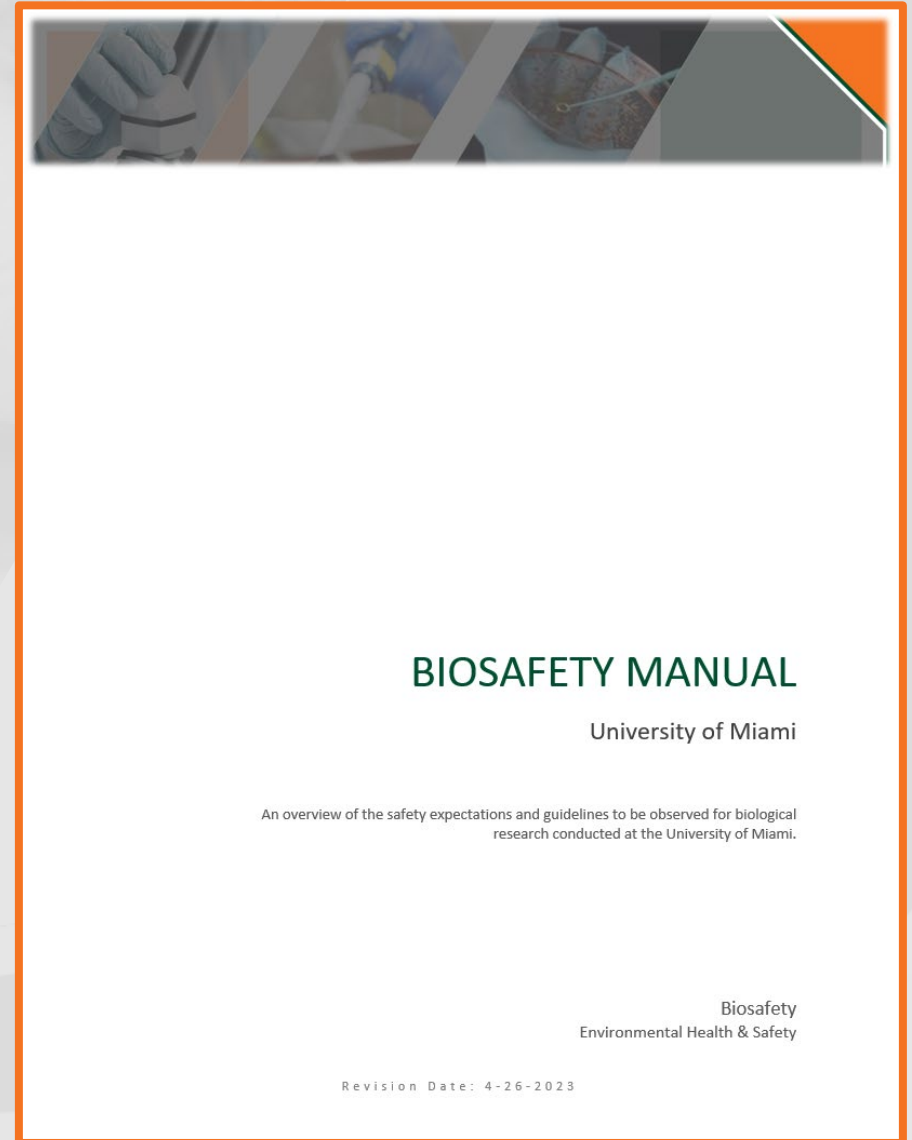
Campus Safety 305-284-6666 (Gables Campus)
Public Safety 305-284-6000 (Medical Campus)
Environmental Health and Safety (EHS) 305-243-3400

Building Address: [redacted]

Date Form Last Updated: [redacted]

New Biosafety Manual

- Policy standards for conducting biological research at UM
- Take General Biosafety for an overview
 - Available online on demand, or via webinar
- Will launch this month
 - Available on website
 - [Ehs.miami.edu/biosafety](https://ehs.miami.edu/biosafety)



Poster Distribution

Laboratory Gloves: Do's & Don'ts

Do's	Doffing	Don'ts
<ul style="list-style-type: none"> Wear gloves when working in the lab Always remove gloves when leaving the lab Select glove material appropriate to the task, consider the hazard: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Glove waste must be segregated on hazard Always wash your hands after removing gloves 	<ol style="list-style-type: none"> Grasp Outside Glove Peel 1st Inside Out Ball Up 1st Glove Put Fingers Inside 2nd Glove Peel 2nd Inside Out Dispose Glove Wash Hands 	<ul style="list-style-type: none"> Do not reuse disposable gloves <ul style="list-style-type: none"> After all, they're disposable! Do not touch doors or door knobs <ul style="list-style-type: none"> When going between labs, use the "One Glove" technique by holding your sample with your gloved hand while touching the door with your non-gloved hand Do not touch common equipment or surfaces with gloves, unless signage is present that indicates PPE is necessary for the surface Do not put gloved hands near

Sharps Safety @ the University of Miami

biosafety@miami.edu
Biosafety Office
EH&S

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

Do not reuse disposable gloves
After all, 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 non-gloved hand

Do not touch common equipment or surfaces with gloves, unless signage is present that indicates PPE is necessary for the surface

Do not put gloved hands near

EXPOSURES & NEEDLESTICKS

STOP → WASH → CALL

...all work in lab

...for 15 Minutes!

EHS Employee Health 305.243.3267

EMERGENCY PROCEDURES

Environmental Health & Safety

Emergency Numbers

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

Important Numbers

Public Safety Phone Numbers
Coral Gables – 305-284-6666
Medical – 305-243-6000
RSMAS – 305-421-7991

Facilities – Coral Gables – 305-284-8282
– Medical – 305-243-6375
– RSMAS – 305-421-4066

Employee Health – 305-299-4684 (24 hours)

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

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:

- Pull Fire Alarm and Evacuate Building
- Dial 911 (9-911 from UM Phones)
- Stay close to identify yourself to first responders

Non-Immediate Action

Incidents that are not immediately life threatening

- Evacuate and avoid area
- Contact Facilities
- Contact EHS – 305-243-3400

Chemical/Biological Exposures

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

Eye/Skin Exposure

- Use eyewash, sink, or emergency shower to rinse exposed area for 15 minutes
- Call 911 (9-911 from UM) and report
- Apply Calcium Gluconate if HF involved

Inhalation Exposure

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

Information for First Responders/Public Safety

Street address of this Building _____
Room Number of this Lab _____
The nature of the incident e.g. fire, medical emergency, exposure
Tell them if you think you will need an ambulance

Post Incident

- Call Employee Health at 305-243-3267 (9am - 5pm) or 305-299-4684 (after hours) to report
- Submit the **Exposure/Injury Intake Form** to Employee Health
- If biohazardous in nature, submit the **Research Incident Report Form** to biosafety@miami.edu

Environmental Health & Safety
ehs.miami.edu

No Gloves on Door Knobs!

Environmental Health & Safety

No Gloves on Door Knobs!

Environmental Health & Safety
ehs.miami.edu

in the Biosafety Cabinet

- If assistance is needed, close sash & call EHS at 305-243-3400
- Cover spill area with absorbent material
- Pour liquid disinfectant onto spill, moving outside in
- Allow appropriate contact time for the chosen disinfectant
- Collect absorbed waste and dispose of as biohazardous waste
- Decon all surfaces in BSC and grill pans if applicable
- Dispose of as biohazardous waste
- Allow BSC to run for 10 minutes before resuming work



Lab of the Year Awards

Awards For 2023

- New Lab of the Year Awards
- Criteria is based on labs that routinely demonstrate an exceptional observance to safety and compliance
- One lab awarded for each major UM campus



Gables Campus

And The Winner Is:



Katlyn Meier Laboratory

Medical Campus

And The Winner Is:



Phillip Ruiz Immunology & Histocompatibility Laboratory

RSMAES Campus

And The Winner Is:



Amanda Oehlert Laboratory

Awards in 2024

- Didn't win? That's okay!
- Official criteria will soon be posted on website





Wrap Up & Upcoming Events

Lunch & Learn Safety Talks

- Safety talks featuring commonly used vendors
 - And did we mention free food!
- Coral Gables L&L with VWR
 - October 13th at 11am
 - Communication Intl Bldg room 3053
- Medical L&L with Air-Eze
 - October 20th at 12:30pm
 - RMSB 3rd floor auditorium
- RSMAES L&L with Airgas
 - October 27th at 1:30pm
 - SLAB room 103
- Don't forget to RSVP!



Biosafety Office Website

FACILITIES OPERATIONS AND PLANNING > HOME > SERVICES > BIOLOGICAL SAFETY

Biological Safety

- Biological Safety
- Biohazardous Emergencies
- Training
- Biological Protocol Review
- Shipping of Dangerous Goods
- Laboratory Inspections
- Equipment
- 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

Biological Safety

Exposure & Spill

Biological Emergency

Training

Protocol Approval

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 stakeholders across labs, clinics, classrooms, and facilities.

General Office Contact

biosafety@miami.edu
305-243-3269

Biosafety Officer
[Shana Gillooly](#)
786-797-0387

Biosafety Tech, Laser Safety Officer
Dangerous Goods Shipping Coordinator
[Melanie Peepell](#)
305-389-9931

Biosafety Tech
[Marleina Dreane](#)
954-322-1113

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!

Biological Emergency

Exposure & Spill

Biological Emergency

Training

Protocol Approval

Biological Emergency

Exposure & Spill

Biological Emergency

Training

Protocol Approval

Shipments

Inspections

Equipment

Occupational Health Program

Frequently Asked Questions

Additional Resources

ehs.miami.edu/biosafety

Quiz & Prizes!



Biosafety Month 2023

Now let's see how well you were paying attention!

Start

Stop

<https://play.myquiz.org/p/00865082>

Open QR-code in full screen

Quiz code **00865082**



Scan

Quiz link:

<https://play.myquiz.org/p/...>



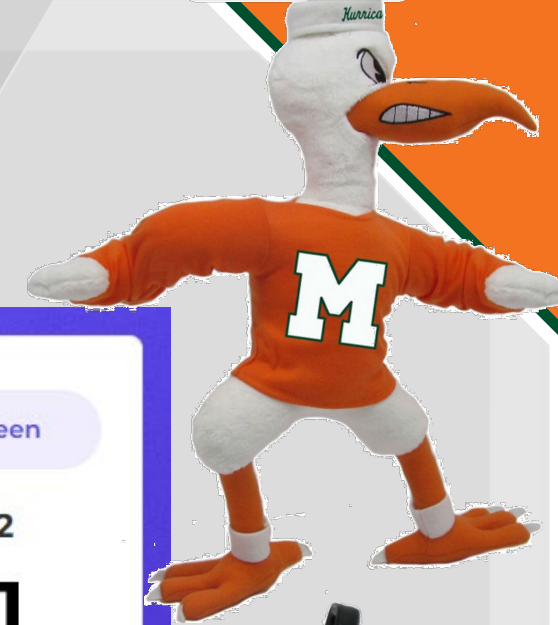
Active users



Limit



All users



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

