

## General Lab and Biosafety Instructions

The Robert P. Apkarian Integrated Electron Microscopy Core (IEMC) Biochemistry connector site is located at Rollins Research Center (Room G236, G237, G239, G241 and part of G238).

**Entrance to the IEMC Lab: Room G236 and G238, NOT G239.**

**Emergency Exits: G236 and G239**

### General Safety

1. The IEMC core lab is a **Biosafety Level 1 Lab**.
2. No food and drinks are allowed in the Lab (G236BG237, G239, G241 and part of G238).
3. No work is allowed in the Core lab, without a lab tour and safety training.
4. Proper dressing in the EM lab is required: no shorts and skirts; proper long pants covering the legs shall be worn; no flip-flops and sandals, closed shoes should be worn all time.

### Humidity and Temperature control



Lab G236b, G237, G239, and G241 are climate controlled and are kept at constant temperature of 20°C and humidity of 30%. Always keep the doors closed.

### Sample Specimen (Only Biosafety level 1)

All sample specimens to be worked in the lab must be approved by the Core Director.

Please fill the provided form before starting your work at EM facility.

### Use of Negative stains and Negative stain work bench (Lab G238)

- Uranyl formate/acetate are weakly radioactive. 
- Phosphotungstic acid and ammonium molybdate are toxic. 
- Sodium silicotungstate is harmful.
- Handle all the heavy metal salts with gloves.

- Respiratory protection and gloves must be worn when handling heavy metal salt powder, and it is important to avoid creating dust and to clean up the balance and bench areas immediately after use.
- All the materials and equipment's at negative stain work bench shall not be removed or moved to another work bench.
- Do not pour any chemicals in the drain, proper waste disposal trash bin should be used for solid and liquid waste respectively provided at the negative stain work bench.

### **Liquid nitrogen and Ethane**

- Eye protection and gloves must be worn whenever handling cryogenic liquids.
- Ethane is flammable and Explosive, do not use in presence of flames. Do not produce static. Use low flow rates to prevent splashing.

### **Emergency Response Instructions**

- Oxygen alarms are installed in room G236b and G241. In case oxygen falls below 21%, oxygen alarm will sound, please evacuate the rooms and contact Lab Manager, don't allow anyone to enter the room. Please follow the evacuation instructions provided on the Lab doors.
- Fire alarm: Please follow the instructions on the doors (Exit signs). Evacuation and emergency exits plan is available in room G236.
- Power outage: Please contact the responsible person.
- Only authorized users will be allowed to use /operate microscopes. In any emergency, please put the column valves at the microscopes closed. Report/contact the lab manager.

### **Use of Instruments in the IEMC Core**

Authorized users with proper training are only allowed to use instruments. Please follow the instructions provided during training.



**Robert P. Apkarian Integrated  
Electron Microscopy Core**  
Emory Integrated Core Facilities

**Repeated or serious breaches of these guidelines may result in disciplinary action which could include exclusion from the laboratory.**

I agree to user policy agreement.

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*Signature*

*Date*

**EM Core Lab Contacts**

**Bio connector Location**

Puneet Juneja, PhD Core Director. Ph 404-7278960. Room: G236

Bo Liang, PhD Scientific Director

**Cherry Emerson Location**

Vincent Conticello, PhD Scientific Director

Hong Yi, MS Technical Director

Jeannette V. Taylor, MS EM Technologist II

Arthur McCanna EM Engineer



# Robert P. Apkarian Integrated Electron Microscopy Core

## Emory Integrated Core Facilities

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### Emergency Contacts

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Emergency calls: Police, Fire or EMS	911 or 404.727.6111
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### Non-Emergency Contacts

Use these numbers for non-emergency calls only.

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<u>Critical Event Preparedness and Response</u> Follow <u>@Emory CEPAR</u> on Twitter	404.712.1300
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<u>Emory Emergency Medical Services (EMS)</u>	404.727.0180
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<u>Emory Police Department</u>	404.727.6115
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<u>Environmental Health and Safety</u>	404.727.5922
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<u>Facilities Management Services</u>	404.727.7463
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<u>Fire Safety</u>	404.727.7378
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<u>University Communications</u>	404.727.6216
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Weather hotline: School closing info	404.727.1234
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