





CCMR Lab Safety

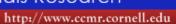
Room Orientation for

Physical Sciences Building Cryo S/TEM Rm- B91, Talos Arctica-B05 and BioTwin-B71



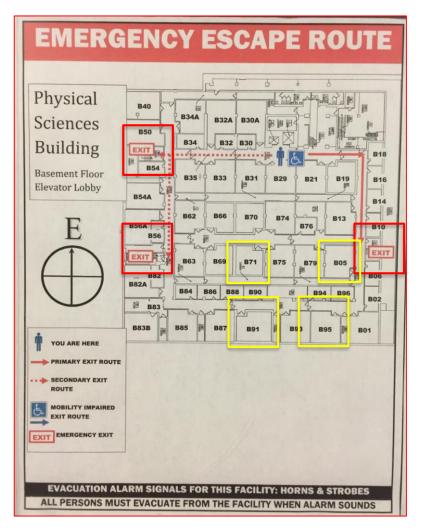
Mariena Silvestry Ramos, PhD PSB G-07 Office – 607-255-6272 ms3289@cornell.edu







Emergency Exits and Evacuation



In the event of a building evacuation alarm or other emergency, immediately proceed to the nearest exit as outlined by the red boxes on the map.

Exit immediately. There is one exit near B95 (FIB room) and B05 (Arctica room) and two exits near the CryoS/TEM, and BioTwin rooms. Additionally, the PSB Atrium and/or Clark Hall are places to exit and wait until the emergency has passed and it's safe to return.

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Emergency Contact Info

In case of emergency, dial 5-1111 from a campus phone. Mobile network signals are mostly inaccessible in the facility and immediate surrounding areas. Two telephones are available for emergency use only:

Next to the Cryo S/TEM and BioTwin microscopes

For non-emergency, urgent equipment issues, contact the appropriate staff member using the number posted on the HASP signs on the doors.

In the event you have any further questions regarding the proper procedures, safety regulations, or other concerns, please contact one of the Facility Staff. The following contacts may be able to assist you:

Keane Leitch, PSC Safety Manager – kjl44@cornell.edu, 121 Baker Lab Todd Pfeiffer, PSC Facilities Director – tap66@cornell.edu, 105 Weill Hall



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http://www.ccmr.cornell.edu

Working in the CCMR CryoEM Labs

Safety Training

The following laboratory safety courses, offered on-line or in the classroom by Cornell University EH&S, are required to access the CCMR Cryo S/TEM, Arctica, and BioTwin Labs. EH&S course numbers follow in parentheses for your reference.

Please refer to https://culearn.cornell.edu/ for information on how to obtain training or verify your CULearn information.

Required for access:

EH&S training in Chemical Waste Disposal: #2716 – Chem Waste

EH&S training in Handling Cryogens: #3055 – Cryogensfty

*EH&S Radiation Producing Equipment Safety: #5033 – EHS-RPE

**EH&S Clark Hall LN2 Dispensing Facility User Training: #7055 – PSCFM

*not needed for Vitrobot training, all other courses are, along with #3055 Fume Hood

** #7055 is not absolutely required, but users are strongly encouraged to take it. This course is taught by the Clark Hall Building manager, Robert Kenyon.

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Rules for using the CCMR CryoEM Facility

- No wet chemistry is allowed in the lab. All samples must be prepared in your own lab.
- Do not bring hazardous samples or materials into the lab without prior consent/approval by the Facility Managers.
- This is not a storage facility you must take specimens when you leave. Anything leftover will be promptly discarded.
- Do not bring food or drinks into any of the labs.
- Users failing to follow safety rules will be denied access to the lab.
- Wear proper PPE and follow safety rules when handling liquid nitrogen (pants/jeans regardless of outside weather, shirt covering the shoulders, and closed-toe shoes).

<u>Do NOT insert foreign objects into the microscope computers</u> (hard drives, thumb drives, chargers, etc); they contain viruses that will damage the computer that operates the microscope. Data transfer is done via Cornell Box, Cornell SFT, or Google Drive.





Instrument and sample holder sign up rules

- Sign ups for instrument time are done via CCMR FOM; users are encouraged to notify managers and/or lab members if sessions are finished early to maximize instrument use/time.
- Specialty holders <u>MUST</u> be signed up for via: https://docs.google.com/spreadsheets/d/1_XIMUwaJ1AAGbnSP-YW-fKH8eiJEXPR1Nm6-7qLRhx8/edit#gid=1606419089 at the same time as the instrument is booked.
- Any and all issues must be shared with <u>Facility Managers immediately</u>. Failure to follow these procedures could result in cancellation of access to facilities.
- Lab head/PI is liable for any non wear-and-tear repair costs incurred due to lab member(s) irresponsible handling/operating of holders and/or microscope.
- Consultation with Facilities Manager is required prior to bringing any samples to the lab. Do
 not introduce new hazards or hazardous materials without express approval from facility staff.
- To be up-to-date about instrument issues or downtime, please enable notification by email in FOM



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http://www.ccmr.cornell.edu

CCMR Shared Facility Access Form (more information at http://www.ccmr.cornell.edu/facilities/becoming-a-ccmr-facility-user/)

Submit one form to each facility that you are requesting access to.

1) Print out this page. Illegible or incomplete forms may not be accepted.

2) Read the facility orientation completely and sign below

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Trainings A,F, and W required for access to all facilities							
Facility	Room	Additional Trainings	Facility	Room	Additional Trainings		
Duffield Hall	150	CR		F03 (Keck)	1		
	231 (Prep)	С	Clark	All D21, D22	C*G*M*R*U*		
PSB	B71, B91, B95, B05	CGRU	Hall	D15 (AFM)	-		
Bard Hall	B47/A/B	C*L*U*		D10	C*G*M*		
	B55	G	ST Olin	B78	С		
	B56	С		1158	CR		
	SB30	L	Snee Hall	1102	R		
	SB56 & 58	R*		1149 (μprobe)	R*		
*Doguirod f	or appoilia potiviti	aa aaa faailit	v orientatio	<u> </u>			

Safety trainings key					
Α	Laboratory safety (#2555-laboratory)				
С	Cryogen handling (#3055-cryogensfty)				
F	Fire safety (#5330-firesafety)				
G	Compressed gas (#2335-compressed)				
Н	Hazard communication (#2343-hazardcomm)				
L	Laser safety (#2397-lasersafety)				
М	Magnetic fields (#5035-magnetic)				
R	Radiation producing equipment (#5033 EHS-RPE)				
U	Fume hood (#3355-FumeHood)				
w	Chemical waste disposal (#2716-chemwaste)				

*Required for specific activities, see facility orientation

- 4) Verify in CULearn (URL above) that all the required trainings show as completed on or after April 1, 2009.
- 5) Print a copy of your CU Learn All Learning and attach to this form.
- 6) Fill in user information, sign and bring completed forms to the appropriate facility manager.

User Name		Cornell University ID card #		
NetID/E-mail	Status	Department	Advisor	

By signing below, I am attesting that I have read the facility orientation form and completed the necessary EHRS cafety trainings Office use:

Door e-mail list entered by

User Signature

http://www.ccmr.cornell.edu





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Researchers who make use of these facilities must acknowledge the award number

The FEI Titan Themis 300 was acquired through NSF-MRI-1429155,

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For more information visit the Facilities website at: www.ccmr.cornell.edu/facilities