

Overarching Goals

Maintain safety of staff and users

Facilitate research

Serve the MIT community

Implement transmission-based precautions

Minimize occupancy

Optimize staff time

Prioritize resources

Learning Objectives

You will be...

 prepared to develop new behaviors to reduce risk

more familiar with new signage and changes to how we use with the building

familiarized with new gowning and lab protocols

ready to schedule your first use of MIT.nano tools









The cleanroom hood has an integrated face cover, but must be worn the correct way to be effective.





Plastic bags available for face covering storage while in the cleanroom (in your pocket).



A combination approach to cleaning and disinfection

MIT Custodial:

- Custodial staff have received enhanced training in cleaning and disinfecting touch points in public areas.
- Cleaning of high-touch points and restrooms is done twice daily using a registered EPA List N disinfectant solution.

MIT.nano:

- Supplementing with external cleaning staff to regularly clean and disinfect high-touch points in the gowning rooms in Buildings 39 and 12.
- Used safety glasses will be disinfected on a weekly basis and put back into rotation.
- Provide disinfectants in the lab.

YOU:

- Continue practicing good hygiene.
- Clean in / clean out your workstation and equipment.
- Follow the new gowning and shared PPE protocols... more on this next.



Types of disinfectants you will find in MIT.nano for SARS-CoV-2:

- Quaternary ammonium solutions (Morning Mist, Shockwave) disrupts lipid membranes
- 70% alcohol (isopropanol or ethanol) disrupts lipid membranes
- Activated hydrogen peroxide solutions (PREempt) oxidative damage





New protocols minimize shared gowning and PPE

Whenever possible, protocols have been modified to eliminate sharing of garments and PPE.

ITEM	USE	CLEANING/DISINFECTION
Bunny suits & frocks	 Individual use (NO sharing) 	- Laundered weekly
Safety Glasses	 Bring your own Individual use from stock supply (NO sharing) 	 User disinfects before/after use with 70% IPA User keeps with bunny suit or puts in used bin Used safety glasses will be disinfected weekly
Face Shields	Shared	- User disinfects before/after use with 70% IPA
Chemical Apron and Arm Gauntlets	• Shared	- None, not necessary
Nitrile Gloves	Individual use	- None, disposable
Nitrile/Neoprene Gloves	Individual use	- None, disposable
Trionic Gloves	Shared	- None, additional gloves are worn underneath













Gowning Specifics: FAB.nano Building 39

- Back to laundered garments!
 - · NO shared garments in all Building 39 labs.
 - *Tyvek Frocks* in EML will be stored on a larger rack in the old deposition (AJA) room. Gown as normal in the entry area, then enter the lab to get your frock.
- Vinyl Gloves moved to lab entry points. Gloves go on first to minimize touch contamination.
- One person per locker, sign up in advance, the locker is yours for the week.
 - Garments will be removed and lockers disinfected on Mondays.
 - Green tape across a locker door indicates the locker is cleaned and no one has opened
 it yet.
 - Move green tape to door and write your name for identification.
 - Plastic bags will be used for garment storage in the ebeamFP room.
- · Safety Glasses:
 - Bring your own safety glasses.
 - · If you use lab stocked safety glasses, store in your locker or hanger for the week.
 - Do not put used safety glasses back in the bins or cabinet with clean glasses.
 - Used safety glasses will be cleaned and returned to the rotation the following Monday.
- Plastic bags will be available for face covering storage while in the cleanroom (in your locker or pocket).
- Nitrile Gloves will be available in the normal "glove room" as PPE for the cleanroom, this is identical to Building 12 protocol.





Specifics: EBL Building 24

- Users will wear face coverings and gloves in any part of the lab (not just the clean area).
- Users will store shoe covers and frocks in a plastic bag with their name.
- Bouffant caps and gloves will be disposed of in the usual, labeled waste containers.
- Users should wipe down and disinfect work stations before and after use with provided disinfectant (keyboards, mouse, etc)



















Acc	essing the	lab:
Lab Hours of Operation		
Building 39 ICL/TRL/EML	Building 24 EBL	Building 12 Fab.nano/Packaging
Mon-Fri: 9am-5pm	24/7 Access	Mon-Fri: 9am-5pm
24-hour access enabled June 29 for qualified users		24-hour access enabled June 29 for qualified users

Staff will be on a reduced schedule during the ramp-up.

- Fab Staff Hours: Mon-Fri, 9am-5pm
- EBL Staff Hours: Mark Mondol is available by phone 8am-11:59pm
- Fab Staff will work alternating weeks to minimize personnel in offices and labs
- Report ALL tool problems in CORAL (this notifies ALL staff including back-ups)
- Staff will provide remote support as much as possible

Accessing the lab: Staged approach to Training and New Users

Early Ramp-Up

- Guide for Returning to MIT.nano Labs: Offering multiple sessions each week to train existing users on modified protocols.
- Broad topic trainings: Classroom trainings will resume via Zoom.
 - Emergency Preparedness
 Training for new users
 - Wet Chemical Processing Training for wet bench users and 24-hr users.
- 24/7 User Qualification interviews will resume in July via Zoom.



- Training on "Similar Tools": Staff are working to enable "distanced training".
 - Spin coaters and photolithography
 - New MLA-150
 - AMAT tools (similar interfaces)
 - Metrology equipment (Dektaks, Filmetrics, etc)

Reach out to the tool owners to discuss your "Similar Tool" training needs.

3 Late Ramp-Up

- Training on "New Tools" (i.e. if you never used an etcher before).
 - We are investigating ways to safely enable training on equipment that requires closeproximity between staff and the users.
- New Users to the Lab
 - This requires a combination of classroom training and handson training, as well as "New Tool" training.
 - New User Orientation will resume via zoom.
 - Quick Start will resume and will be modified from its current format.



