

Emergency Action Plan for Department of Medicine - Division of Experimental Medicine

Contact Persons For This Plan

	Name	Email	Work Phone
Primary	VANESSA YORK	vanessa.york@ucsf.edu	6282068096
Alternate			

Emergency Assembly Areas Post-Evacuation

Primary	Alternate	Designated Waiting Area(s) If In Need Of Assistance To Evacuate
In front of the Avon Breast Center.	If not safe to be in this area, proceed to the front doors of the hospital by the roundabout. If this location is unsafe proceed to the corner of 23rd Street and San Bruno Ave.	All staff should wait at the assembly area so roll can be taken. Staff that need assistance evacuating should wait on the 6th floor Room 603 if safe to do so.

Occupants With Emergency Roles

Name	Emergency Role	Home Workgroup
XAVIER FARIAS	Floor Warden	
VANESSA YORK	Emergency Coordinator	
JUSTIN W VANG-MOORE	Emergency Coordinator	
JOEL D ERNST	Emergency Coordinator	

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Plan Status	
Current Plan Status	Plan Review Due Within 30 Days
Date This Status Became Current	Aug 1, 2022
Next Annual Review Due By	Aug 31, 2022

A. Purpose Of The Emergency Action Plan

The Emergency Action Plan (EAP) is a way for your workplace to prepare and plan for a variety of emergency situations, e.g., medical emergencies, citywide disasters; power outages, hazardous chemical spills, fires, bomb threats, a civil disturbance, and earthquakes.

An Emergency Action Plan is required for each Administrative and Academic work space, and should be considered a part of every Department's basic health and safety responsibility. EAPs may be developed for an entire floor or area occupied by multiple departments, divisions, units, or labs; or may be written for a single unit/lab worksite.

It is important for staff to read and understand their work site Emergency Action Plan BEFORE an emergency occurs. Managers should share safety information with faculty, staff, and students; brief all new personnel as they join the department; and POST copies of the Emergency Action Plan in accessible locations. EAP owners are responsible for the annual review and update of their Emergency Action Plan(s).

The Emergency Action Plan can be organized by worksite (office, lab), by Division or Department, and by floor or building. Collaboration between neighboring work spaces on the same floor to develop a single "Neighborhood" EAP is encouraged.

For additional information regarding the Emergency Action Plan requirement, please review the Emergency Action Plan Team Manual at <http://police.ucsf.edu/emergency-management/emergency-action-plan-eap>.

Last Update: November 5, 2020

Review: August 28, 2018

B. Buildings Covered (in Whole or Part)

Building Name	Address Line 1	Address Line 2	Building Coordinator (or Equiv)	Alternate Bldg Coordinator (or Equiv)	Comment
SFGH Bldg 3	1001 Potrero Ave	San Francisco, CA 94110			

C. Specific Work Area (Within the Above Buildings) Covered By This Plan

Work Area Covered By This Plan	5th and 6th floor - All rooms on 5th and 6th floor covered by this plan
Additional Description of Work Area	
Location Tag	San Francisco General Hospital
Other Location Tag	
Animal Facilities In This Work Area?	No
Animal Facilities Location/Details	

D. Instructions For Reporting Emergencies

EMERGENCY:

911

To reach UCSF police, dial 911 from any campus phone or 415-476-6911 from a non-campus phone.

Non-Emergency:

415-476-1414

The caller should provide as much information about the emergency as possible, including locations affected, any health and safety issues, missing persons, or other pertinent and relevant information.

D. Instructions For Reporting Emergencies

For large scale or regional disasters where communications are impeded, such as a significant earthquake, please report situation status to the Status Collection Point (East Zone - Koret Quad, West Zone - Emergency Shed at LPPI).

Last Update: November 5, 2020

E. Instructions For Evacuation

- Cease all work immediately upon notification of the event (by alarm or direct notification)
- Shut down critical equipment in the area, if possible, without placing yourself or your work or research at risk
- Take essential personal belongings, if safe to retrieve items
- Close doors but do not lock them
- Proceed to the nearest stairwell (noting any injuries, hazards or personnel remaining in the building) - DO NOT attempt to use elevators
- Go to the floor of the building that exits to street level and exit the building immediately
- For high rise buildings, evacuate 4 floors down or until you no longer hear fire alarms
- Report to your Emergency Assembly Area
- Check in with your Floor Warden/designee to be accounted for and to report any issues
- Keep entrances, sidewalks, driveways and fire lanes clear
- Do not re-enter the building until you have been notified by Security, emergency response personnel, or Floor Wardens that it is safe to do so – DO NOT enter the building simply because the alarm has been silenced!
- If you are unsure it is safe to re-enter a building, ask emergency response personnel or call 415-476-1414

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Review: August 28, 2018

Evacuation Route	Primary: One stairwell is on the east side of the building by the BSL2* lab on the 6th Floor and the tissue culture room on the 5th Floor. This stairwell ends outside the back of the building at the loading dock. Proceed to Emergency Assembly Area using safest route. The other stairwell is in the west side of the building by the Oval office on the 6th Floor and the kitchen on the 5th Floor. This stairwell will take you to the 1st Floor where you will turn left and exit to the outside. Proceed to Emergency Assembly Area using safest route.
	Secondary:
Emergency Assembly Area	Primary: In front of the Avon Breast Center.
	Secondary: If not safe to be in this area, proceed to the front doors of the hospital by the roundabout. If this location is unsafe proceed to the corner of 23rd Street and San Bruno Ave.
Designated Waiting Area(s)	All staff should wait at the assembly area so roll can be taken. Staff that need assistance evacuating should wait on the 6th floor Room 603 if safe to do so.

F. Instructions For Sheltering In Place

There may be situations when it is safest to stay where you are and avoid any uncertainty outside. This can be due to hazardous material releases, fires, explosions, or chemical spills. If a shelter in place order is given employees should follow these procedures to ensure their safety.

How to choose a room to shelter in place:

- Select a small, interior room, with no or few windows
- Choose a room where exterior doors and windows close completely and can be locked
- It is ideal to have a hard-wired telephone in the room you select (cell phone equipment may be overwhelmed or damaged in an emergency)

Additional Notes:

- Lock all available doors
- Turn off all fans, heating and air conditioning systems, if feasible
- Inspect emergency kits and supplies
- Updates on the situation and the 'all-clear' message may be communicated via WarnMe, overhead paging system, or by emergency response personnel
- Be prepared to improvise and use what you have on hand to seal gaps so that you create a barrier between yourself and any contamination

Last Update: November 5, 2020

G. Instructions For Securing In Place

There may be situations when a location should be secured to prevent entry. This will usually be due to the possible presence of a violent intruder. If a secure in place order is given, employees should follow these procedures to ensure their safety.

How to choose a room to secure in place:

- Select a small, interior room, with no or few windows
- Choose a room where exterior doors and windows close completely and can be locked
- It is ideal to have a hard-wired telephone in the room you select (cell phone equipment may be overwhelmed or damaged in an emergency)

Additional Notes:

- Lock all available doors
- Silence cell phones
- Do not congregate in one portion of the room
- Avoid areas that can be seen from outside the room
- When first responders arrive, follow instructions and keep hands visible

Last Update: November 5, 2020

H. Procedures For Specific Scenarios

(1) MEDICAL EMERGENCY

- If you are injured or have a medical emergency in the workplace, call 911 or 415-476-6911 immediately if you are able. If you are unable to use the phone, verbally call for help. Anyone who hears you should summon help by calling 911 or 415-476-6911.
- If you witness an injury or medical emergency in the workplace, immediately assist the injured if it is safe for you to do so. Then call 911 or 415-476-6911 as soon as possible from a safe location. Become familiar with emergency notification procedures.

(2) FIRE

A building occupant is required by law to evacuate the building when the fire alarm sounds.

- If you see a fire and the alarm is not sounding, immediately notify the fire department by activating the nearest manual alarm pull station. Call 911 or 415-476-6911 from a safe location to provide details of the situation.
- If trained, able and safe (with a sure and safe exit), use a portable fire extinguisher to extinguish the fire. Evacuate if one extinguisher does not put out the fire.
- Otherwise, evacuate the building as soon as the alarm sounds and proceed to the EAA.
- On your way out, warn others.
- Use stairs only; do not use elevators.
- Move away from fire and smoke. Close doors and windows if time permits.
- Check for heat - touch closed doors (NOT handles). Do not open them if they are hot.
- Enter the building only when instructed to do so by emergency responders.

(3) EARTHQUAKE

(a) Inside the Building:

- Duck under the nearest sturdy object and hold onto it until the shaking stops. If you are not near a sturdy object, make yourself as small as possible and cover your head and neck.
- If you stand in a doorway, brace yourself against the frame and watch out for a swinging door or other obstruction.
- Avoid windows, filing cabinets, bookcases, and other heavy objects that could fall or shatter.
- Stay under cover until the shaking stops, then leave the building and go to the EAA or another designated location. Report to your roll taker.
- If safe, before evacuating, stabilize any laboratory procedure that could lead to further danger. (Example: turn off gas valves or electrical equipment.)

(b) Outside the Building:

- Move away from trees, signs, buildings, electrical poles and wires, fires, and smoke.
- Protect your head with your arms from falling debris.
- Proceed to the EAA or a pre-designated alternate assembly area. Report to your roll taker.
- Stay alert for further instructions.

(4) DEMONSTRATION OR CIVIL DISTURBANCE

- Most demonstrations are peaceful and if one is conducted near or in your building, carry on business as usual. Avoid provoking or obstructing demonstrators. Should a disturbance occur, call Police for assistance.
- If protestors enter your building, let them. Try to carry on business as usual. If the noise becomes too great, or the crowd too large, feel free to close and lock your office doors and/or windows - this is a departmental decision.
- Do not close your buildings unless the Police advise you to. If it becomes necessary to evacuate, follow directions from

H. Procedures For Specific Scenarios

Police. Proceed to the EAA and wait for additional instructions.

(5) CRIMINAL OR VIOLENT BEHAVIOR

- Assist in making your work location a safe place by being alert to suspicious situations or persons and reporting them as outlined below. See something, say something - call local Police.
- If you are the victim of, are involved in, or a witness to any violation of the law such as assault, robbery, theft, overt sexual behavior, etc. call Police as soon as possible. If safe, wait for Police in order to provide them with more information.

(6) SUSPICIOUS PACKAGE

- A suspicious-looking box, package, object, or container in or near your work area may be a bomb or explosive material.
- Do not handle or touch the object.
- Move to a safe area and call the Police immediately at 9+911 or 416/476-6911. Use a telephone in a safe area.
- Do not operate any power switches, and do not activate the fire alarm.

(7) EXPLOSION

If there is an explosion:

- Take cover under sturdy furniture, or leave the building if safe and directed to do so by emergency responders.
- Stay away from windows.
- Do not light matches.
- Move away from the hazard site to a safe location.
- If instructed to evacuate, use the stairs only; do not use the elevators.

(8) BOMB THREAT

If you receive a bomb threat (via the telephone):

- Stay calm and keep your voice calm.
- Pay close attention to details. Talk to the caller to obtain as much information as possible.
- Write down the date and time of the call.
- Take notes. Pay attention to details. Ask as many questions as possible:
 - o When will it explode?
 - o Where is it right now?
 - o What does it look like?
 - o What kind of bomb is it?
 - o Where did you leave it?
 - o Did you place the bomb?
 - o Who is the target?
 - o Why did you plant it?
 - o What is your address?
 - o What is your name?

Listen to the caller's voice. See if you can identify

- Speech patterns (accent, tone)
- Emotional state (angry, agitated, calm, etc.)
- Background noise (traffic, people talking and accents, music and type, etc.)
- Age and gender

Write down other data:

- Date and time of call
- How threat was received (letter, note, telephone)

Call the Police and relay the information from the bomb threat telephone call or bomb threat letter. Follow the Police's instructions.

Check your work area for unfamiliar items. Do not touch suspicious items; report them to the Police at 911 or 415-476-6911.

If you are told by emergency responders to evacuate the building, evacuate immediately.

(9) HAZARDOUS MATERIAL RELEASE

(a) For Non-Users Of The Hazardous Material: If a hazardous material is released or spilled near you and you are not a user nor knowledgeable about hazardous materials, call Police immediately and move away from the release area.

(b) For Users Of The Hazardous Material: If you are a hazardous material user and you cause a release of a hazardous material, you should know the emergency procedures for cleaning up a hazardous spill. All hazardous materials users should be trained on proper use and storage of hazardous materials, including proper procedures for preventing spills and emergency procedures when a spill occurs. If you have not been trained and don't know what to do, leave the area and warn others. When you are at a safe location, call Police immediately.

(10) UTILITY FAILURE

- In the event of a major utility failure, notify Facilities Services Customer Call Center at 415-476-2021 (or the building

H. Procedures For Specific Scenarios

owner, if you are off-campus in a leased space).

- Evacuate the building if the fire alarm sounds and/or upon notification by Police.
- In laboratory buildings, fume hoods do not operate during a power outage and many laboratories should not be used until ventilation is properly restored.

(11) ELEVATOR FAILURE

If you are trapped in an elevator, use the emergency telephone inside the elevator to call for assistance or press the elevator alarm inside the elevator to signal for help.

(12) FLOOD OR PLUMBING FAILURE

- Cease using electrical equipment.
- Evacuate the building if necessary and proceed to the EAA.
- Call Facilities Services Customer Call Center at 415-476-2021 if necessary.

(13) STEAM LINE FAILURE

- Avoid live steam. Serious burns can result.
- Call Facilities Services Customer Call Center at 415-476-2021. If leased space, call the building owner or contact person.

(14) GAS SMELL

If you smell natural gas:

- Cease all operations immediately.
- Do not operate light switches.
- Evacuate as soon as possible.
- Call Police at 911 or 415-476-6911.
- Call Facilities Services Customer Call Center at 415-476-2021. If your space is leased, call the building owner or contact person.

(15) VENTILATION PROBLEM

If you smell odors coming from the ventilation system:

- Immediately notify Facilities Services Customer Call Center at 415-476-2021. If in leased space, notify the building owner or contact person.
- If necessary, cease all operations immediately.
- If necessary, evacuate the building and proceed to the EAA.
- If smoke is present, pull the fire alarm, then call Police at 911 or 415-476-6911 from a safe location.

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I. Occupants With Special Duties During Emergencies

Name	Department	Organizer Duties	Duties Pre-Evacuation	Duties Post-Evacuation	Rescue Or Medical Duties
XAVIER FARIAS	M_MED-ZSFG-EXPM	Floor Warden	Xavier Farias will sweep the 6th Floor including the BSL2* lab and request that people leave immediately.		
VANESSA YORK	M_MED-ZSFG-EXPM	Emergency Coordinator	Assists Floor Warden with evacuation procedures by leading staff from building to Emergency Assembly Area	Reports status of injuries and damage to personnel/property to the Site Emergency Coordinator.	
JUSTIN W VANG-MOORE	M_MED-ZSFG-EXPM	Emergency Coordinator	Alternate emergency coordinator. Assists with evacuation.	Reports status of injuries and damage to personnel/property to the Site Emergency Coordinator.	

I. Occupants With Special Duties During Emergencies

Name	Department	Organizer Duties	Duties Pre-Evacuation	Duties Post-Evacuation	Rescue Or Medical Duties
JOEL D ERNST	M_MED-ZSFG-EXPM	Emergency Coordinator	Alternate emergency coordinator. Assists with evacuation.	Assesses injuries and damage to personnel/property and reports this status to the Site Emergency Coordinator.	Is an MD.

J. Other Important Information

FIRE EXTINGUISHER: 5th floor: kitchen and rooms 505, 507, 511, 522, and 527. 6th floor oval office and rooms 609, 615, 621, 627, 631, and 636., AED: N/A, EMERGENCY SUPPLIES: Water & crank radio 5th & 6th floor lunch rooms; non-perishable food 5th floor library, flashlights admin office & all research labs, FIRST AID KIT: In all research labs, admin office, and outside Room 622., RED PHONE: N/A

Appendices

Appendix 1: Alarm Systems

Details Of Building Fire Alarm System	Fire alarm system utilizes detectors audible alarms and visual strobes. Nearest fire pull station is located at 4 stations. Next to both stairwells on each of the 5th and 6th floors
Other Employee Alarm Systems In Building	Refrigeration Alarm; Elevator Alarm; Lab Hood Alarm
Details Of Other Employee Alarm Systems	Most of our laboratory equipment including freezers and refrigerators have alarms and are monitored by an outside company, Tyco, for temperature and power issues.

Appendix 2: Org Units That Have Staff In This Work Area

Appendix 3: Training Requirements

Before implementing the emergency action plan, the employer shall designate and train a sufficient number of persons to assist in the safe and orderly emergency evacuation of employees. Campus Floor Warden training is available online at <https://training.ucsf.edu/> and search Campus Floor Warden.

The employer shall advise each employee of his/her responsibility under the plan at the following times:

- Initially when the plan is developed,
- Whenever the employee's responsibilities or designated actions under the plan change, and
- Whenever the plan is changed.

The employer shall review with each employee upon initial assignment those parts of the plan which the employee must know to protect the employee in the event of an emergency. The written plan shall be kept at the workplace and made available for employee review.

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Appendix 4: Record-Keeping Requirements

The written Emergency Action Plan shall be posted in the workplace, made available for employee review, and on-boarding of new employees shall include review of current EAP.

A written training record shall be kept in the workplace and include, at minimum, a list of employees trained in the EAP, the date of training for each, and the employee's signature as confirmation. Training records shall be kept and available for a minimum of one year.

Last Update: November 5, 2020

Appendix 5: Contact Persons For This Plan

	Name	Email	Work Phone	Cell Phone
Primary	VANESSA YORK	vanessa.york@ucsf.edu	6282068096	(650) 255-6933
Alternate				

EMERGENCY NUMBERS

9+911 (if from a Campus phone)	Police, Fire, Medical Emergency, Haz Mat Incident
206-4911	Security emergencies
206-8063	ZSFG Institutional Police – non-emergency, ZSFG Escort Service
206-8522	ZSFG Building Damage, Utilities (gas, water, electricity), Building Manager Telephone – SFGH Plant Services
353-7842 (Parnassus)	Needlestick Hotline 24 hours/7 days a week
474-1414	UCSF Environmental Health & Safety
SF Emergency Alert System (EAS)	KCBS-740 AM, KGO-810 AM, KNBR-680 AM
206-8096 work, 650-255-6933 cell	Worksite Emergency Coordinator: Vanessa York
206-8140	Floor Warden 5 th and 6 th Floor: Xavier Farias
586-6822	Custodian Janitorial Services
206-8111	SFGH Emergency Department

EMERGENCY NOTIFICATION and COMMUNICATION PLAN

In the event of an emergency, SFGH will notify the Department of Medicine and in turn they will notify Vanessa York.

Vanessa York will notify the following people:

Joel Ernst, Professor, Division Chief
Margaret Feeney, Professor
Bryan Greenhouse, Associate Professor
Timothy Henrich, Associate Professor
Peter Hunt, Professor
Babak Javid, Associate Professor
Rachel Rutishauser, Assistant Professor
Sara Suliman, Assistant Professor
Justin Vang-Moore, Division Manager

Joel Ernst & Mary Beth Moreno will communicate with the following people:

Members of the Ernst Lab

Margaret Feeney and Mikias Ilala will communicate with the following people:

Members of the Feeney Lab

Bryan Greenhouse and Charles Le will communicate with the following people:

Members of the Greenhouse Lab

Timothy Henrich and Tyler-Marie Deveau will communicate with the following people:

Members of the Henrich Lab

Peter Hunt and Vanessa York will communicate with the following people:

Members of the Hunt Lab

Babak Javid & Mary Beth Moreno will communicate with the following people:

Members of the Javid Lab

Rachel Rutishauser & Alice Wang will communicate with the following people:

Members of the Rutishauser Lab

Sara Suliman & Angel Ruvalcaba will communicate with the following people:

Members of the Suliman Lab

Vanessa York will communicate with the following people:

Xavier Farias, Laboratory Assistant

Justin Vang-Moore will communicate with members of the Administrative Staff.

At this time, only medical staff will be recalled in the event of a disaster to assist with patients at ZFGH.

NEAREST PUBLIC TELEPHONE and CAMPUS EMERGENCY PHONE

Public phones are located on the first floor of Building 90 and in the front lobby of the main hospital.

LOCATION OF NEAREST FIRE ALARM PULL STATION

5th Floor across from the kitchen next to stairwell
5th Floor across from tissue culture next to stairwell
6th Floor across from Oval Office next to stairwell
6th Floor across from BSL2* next to stairwell

LOCATION OF ALL FIRE EXTINGUISHERS (& Date of last inspection):

5 th Floor kitchen – 3/22	5 th Floor Room 505 – 3/22
5 th Floor Room 507 – 3/22	5 th Floor Room 511 – 3/22
5 th Floor Room 522 – 3/22	5 th Floor Room 527 – 3/22
6 th Floor Oval Office – 3/22	6 th Floor Hallway 609 – 3/22
6 th Floor Hallway 615 – 3/22	6 th Floor Room 621 – 3/22
6 th Floor Hallway 627 – 3/22	

To use a fire extinguisher remember P-A-S-S.

Pull the pin

Aim the extinguisher nozzle low at the base of the fire

Squeeze the handle which will release the fire extinguishing medium.

Sweep from side to side at the base of the fire until the fire is out.

EMERGENCY SUPPLIES

- Emergency supplies are maintained at this work site.

EMERGENCY SUPPLIES AND EQUIPMENT

Departments are responsible for maintaining emergency supplies and equipment at each work site.

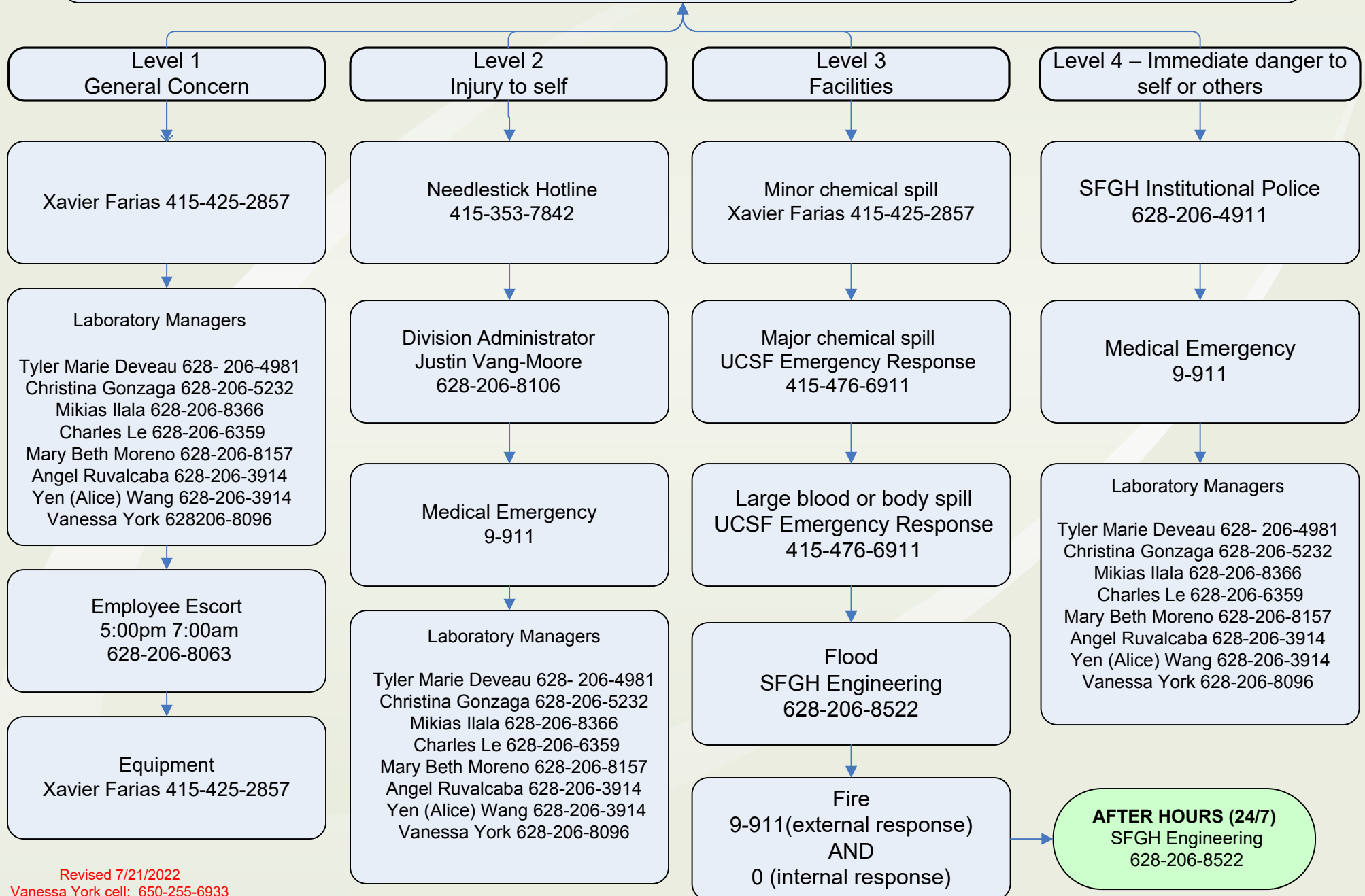
Recommended: First Aid supplies, flashlights, extra batteries, battery operated AM/FM radio, water, and non-perishable food.
<http://www.prepare.org/basic/twokit.htm>

Assign someone to review, and restock supplies annually.

Quantity	Purchase/ Replacement Date	Item	Location
	Replenished every 2 weeks	Bottled water – 5 gallon bottles	6 th Floor Oval Office
		Flashlights	Admin Office 5 th floor Room 501 5 th floor Rooms 507, 523, 527 in fire extinguisher box 6 th floor Rooms 615 and 621 6 th floor Rooms 609, 627, 631 in fire extinguisher box
	Replenished as needed	Extra Batteries	6 th floor admin office
	Replenished as needed	Basic First Aid Supplies	Research labs Admin offices Outside Room 622
2		Crank Radio	5 th Floor Collaboration Room 6 th Floor Oval Office
	Replenished every 2 weeks	Non-perishable food items in vending machine	5 th Floor Collaboration Room

Emergency Action Flow Chart

Determine the level of concern



PERSONNEL ROSTER

Use this list to account for staff at your designated Emergency Assembly Area and when clearing the work site.

Building 3, 5th & 6th Floors

<u>Employee Name</u>	<u>Work Tel.</u>	<u>Lab</u>	<u>Cell # Home #</u>	<u>Emerg. Notification</u>	<u>Comments : Special needs or skills</u>
Gonzalo Acevedo	628-206-8366	Feeney Lab	510-282-5899	Martin Gagliano 510-495-0986 510-994-9167 Daniel Minter 253-948-2047	Spanish, French, CPR
Sakshi Agarwal	628-206-8137	Javid Lab	415-216-9167	Babak Javid 857-285-8891 Manitosh Pandey +91-8860787137	
Florianne Alviar	628-206-5232	CIL Lab	415-310-0463 415-715-0192	Feliciano Alviar 415-310-4967 Annabelle Alviar 415-310-4968	
Gabrielle Ambayec	628-206-8152	Hunt Lab	951-200-1834	Rizalina Ambayec 951-219-0723 951-486-4890 Epifanio (Jun) 951-834-5142 760-744-5615	Proficient Tagalog interpretation
Kofi Asare	628-206-4981	Henrich Lab	856-857-5358	Lisa Asare 609-731-4077 609-510-8115 Kwami Asare 609-984-2426 609-456-1345	
Gabriele Beck-Engeser	628-206-8152	Hunt Lab	415-910-3820 415-558-9812	Maria Wabl 415-759-6585 415-640-2164 Mary Russell 415-771-5787 415-439-3792	benzoylperox ide allergy
Gina Borgo	628-206-3914	Rutishauser Lab	925-360-8776	Ben Borgo 650-255-7758 Rebecca Schwartz 925-360-8776	Allergic to stone fruit
Jessica Briggs	628-206-8421	Greenhouse Lab	281-799-3334	Karen Schmidt 281-794-3056 Russell Briggs 713-206-9566	CPR certification (ACLS)
Amanda Buck	628-206-4981	Henrich Lab	925-989-4057	Jill Buck 925-487-0777 925-931-0386 Mark Buck 925-413-7677	Basic Life Support Certification
Fay Chan	415-206-8165	Hunt Lab	415-413-6684	Marita Chan 415-490-7305 Siu Tong Chan 415-490-7304	
Yuxiang Chen	628-206-8137	Javid Lab	415-530-6425	Sakshi Agarwal 415-216-9167 Fei Ning 415-533-6090	
Devin Columbus	628-206-8113	Ernst Lab	718-986-7267	Angel Columbus 646-651-6781 Susan Columbus 845-800-1588	
Christian Constantz	628-206-3914	Rutishauser Lab	650-529-5421	Brook Constantz 650-868-4809 Jennifer Schorman 818-441-9347	
Ana Coutlakis	628-206-4981	Henrich Lab	703-473-9173	Denise Coutlakis 703-244-2380 Leela Yadav 202-815-3947	
Amelia Deitchman	415-476-1148	Henrich Lab	904-651-7825	Johannes Kast 352-213-9391 Tami Deitchman 904-994-2100	
Tyler-Marie Deveau	628-206-4981	Henrich Lab	909-206-7419	Christopher Deveau 909-239-7677 Maria Deveau 909-241-7619	
Tessa Dickson	628-206-8137	Javid Lab	707-357-4454	Karen Novak 707-937-0352 707-813-7022	
Elnaz Eilkhani	628-206-3103	DEM-DARE	916-505-0829	Ali Behbood 408-499-3822 Elnour Eilkhani 916-505-5101	
Adrienne Epstein	628-206-8421	Greenhouse Lab	401-486-5989	Matthew Tytel 707-372-7121	French

				Thomas Epstein 401-524-8845	
Joel Ernst	628-206-8101	Ernst Lab	917-518-9524	Victoria Ernst 917-517-0490 Kristina Ernst 917-514-1822	Hearing disability
Haig Alexander Eskandarian	628-206-8137	Javid Lab	+14154253101	Hasmig Eskandarian +17037203484 +15713381741 Alice Cont +41216931709 +393472455778	Languages: French, English, Russian, Armenian, Italian
Xavier Farias	628-206-8140	DEM Administration	415-425-2857	Chris Beaudoin 415-272-8681 Jody Angel 415-412-5650	Spanish speaker
Margaret Feeney	628-206-8218	Feeney Lab	617-686-6980	Karen O'Neill 415-347-5545	MD
Inna Gerlovina	628-206-8421	Greenhouse Lab	510-334-6892 510-525-1677	Boris Gerlovin 510-407-1356 510-237-0615 Alex Aleskovski 510-407-5607	
Valerie Girling	628-206-5232	CIL	415-307-1950	Richard Girling 415-305-9148 Raury Girling 415-971-6020	
Christina Gonzaga	628-206-5232	CIL	650-222-2318 650-878-5377	Elgin Wingate 650-346-2240 Brianna Wingate 415-595-0118	
Bryan Greenhouse	628-206-8844	Greenhouse Lab	415-317-2263	Cara Pellegrini 415-221-4810x3178 415-317-5025 Norine Greenhouse 732-740-2810	Physician, though clinical skills are not frequently used
Timothy Henrich	628-206-5518	Henrich Lab	857-334-1574	Rachel Coen 347-247-5409 Janet Henrich 203-288-9563	Latex allergy, MD, CPR, advanced cardiac life support, post-exposure prophylaxis for viral infections
Eduardo Hernandez	628-206-3914	Rutishauser Lab	707-529-2198	Anthony Hernandez 707-849-9213 Maurilio Hernandez 707-889-9522	Shellfish allergy
Zachary Howard	628-206-8113	Ernst Lab	425-761-0495	Kathryn MacKay 425-354-8971 Patrick Howard 425-269-1110	
Alan Hsieh		Suliman Lab	408-777-2916	Carl Hsieh 408-775-4600 Bruce Hsieh 408-489-8588	CPR, Mandarin
Wendy Hung	628-206-3914	Rutishauser Lab	310-923-2870	Eric Hung 310-736-5157 Grace Lin 604-277-8161	Madarin speaking
Peter Hunt	628-206-8165	Hunt Lab	415-244-6682	Tomoko Funaki 917-533-0754 Kevin & Elizabeth Hunt 203-265-5313 617-823-3502 203-974-3409	Physician
Riana Hunter		Suliman Lab	619-623-9257	Janeth Godoy 323-812-5387 Julia Spencer 310-740-6685	
Mikias Ilala	628-206-8366	Feeney Lab	323-529-7158	Elizabeth Ilala 323-377-3505 Arega Tulu 510-809-7865	Amharic Language
Babak Javid	628-206-8159	Javid Lab	857-285-8891	Salumeh Javid 510-953-9748 Mahsa Javid 203-645-9717	Physician but not licensed in CA. Farsi speaker
Abigail Kane	628-206-8188	Rutishauser Lab	575-649-3217	Deborah Kane 575-652-2650 Patrick Kane 575-642-3702	
Priya Kishore		Suliman Lab	415-613-7328		Allergic to Amoxicillin;

					Languages: Punjabi, Hindi
Nitasha Kumar	628-206-5232	CIL	470-439-6772	Barry Shiel 415-756-6516 Nitasha Kumar 470-439-6772 818-836-9826	Allergic to fructose and gluten, speaks Indonesian and Hindi
Brian LaFranchi	628-206-4981	Henrich Lab	503-707-5372	Steve LaFranchi 503-636-4190 503-702-1835 Pam Fisher 503-636-4190 503-277-9103	
Isabel Lamb- Echegaray	628-206-8366	Feeney Lab	510-944-9317	Matthew Lamb 434-760-5890 Teresa Echegaray +34 675894331	Spanish
Susan Lau	628-206-8103	DEM Administration	415-794-4890 415-885-4236	Kenneth Louie 415-786-0199 Sandy Lau 415-867-0199	Languages: fluent in Cantonese, basic skills in Mandarin
Justine Levan	628-206-8366	Feeney Lab	805-267-6839	Bianca Levan 805-267-6834 Andre Levan 805-300-4566	
Meredith Lew Tan	628-206-8102	DEM Admin	323-594-1243	Shelly Ushio 626-405-5880 323-893-3807 Nicholas Suen 415-608-7152	
Jason Limberis	628-206-8113	Ernst Lab	415-815-6307	John Cohen 408-439-3697 Carla Kotze 002772225554	
Nathan Lo	628-206-8421	Greenhouse Lab	281-768-9637	Sarah Jacobson 978-494-2296	ACLS, physician
Marine Lyden	628-206-4981	Henrich Lab	812-361-1822	Misuzu Lyden 812-340-3875 Annalea Maeder 341-799-6918	
Wenyue Ma	628-206-5232	CIL	510-435-6822	Shuyi Liu 510-459-0780 Junwei Ma 510-435-1982	
Alexander Mohapatra	628-206-8113	Ernst Lab	813-785-6121	Amna Mohapatra 909-702-8519 Uday Choudhury 510-579-3876	BLS/ACLS
Mary Beth Moreno	628-206-8113	Ernst Lab/Javid Lab	707-529-0895 707-578-7723	Robert Moreno 707-525-7491 707-529-0896 Timothy Moreno 707 237-1335	
Maxwell Murphy	628-206-8421	Greenhouse Lab	707-364-7044	Douglas Murphy 707-364-5770 Kathryn Murphy 707-364-7045	
Alina Nalyvayko	628-206-8137	Javid Lab	530-867-7488	John Verhoog 616-438-2953 Kathleen Guerrero 530-320-7137	
Paul Ogongo	628-206-8113	Ernst Lab	628.502.9805	Martha Bitta 628-244-6576 James Onyango +254-724-452884	
Meagan Olive	628-206-8366	Feeney Lab	603-724-4930	Rebecca Olive 603-225-0840 603-724-1719 Shreya Thatai 248-506-6829	
Michael Peluso	628-206-4981	Henrich Lab	516-729-5100	Alyssa Nylander 925-699-7438 Maria Peluso 516-729-5101	Physician
Maricela Pena	628-206-5232	CIL	415-424-7160	Mariela Pena 415-717-1358 Sergio Castanon 415-261-2662	Peanuts, spicy
Mary Prah	628-206-8366	Feeney Lab	218-348-3535	Anand Reddi 530-574-6004 Marian Prah 218-348-8881	CPR, pediatric ACLS
Josephine Reijneveld		Suliman Lab	415-361-0669	Arjen Reijneveld +31634291420 Dorothea de Jong +31 626759703	Native in Dutch language
Isabel Rodríguez- Barraquer	628-206-6359	Greenhouse Lab	443-315-6015	Ignacia Echeverría 443-621-2822 Carmen Barraquer +571-6100136	Spanish

Isobel Routledge	628-206-8421	Greenhouse Lab	415-967-7897	Carolyn Routledge +447715659422 Bruce Routledge +447477730033	Penicillin allergy; Spanish (B2/C1 level)
Rachel Rutishauser	628-206-5414	Rutishauser Lab	917-561-0999	Naomi Kanakia 202-841-0265 Tom Rutishauser 917-862-9281	CPR
Angel Ruvalcaba		Suliman Lab	925-665-4142	Stacey Rubalcava 925-639-0725 Alvaro Ruvalcaba 925-383-2149	Spanish
Dylan Ryder	628-206-4981	Henrich Lab	619-248-8540	Cheryl Ryder 619-804-5242 Michael Ryder 619-886-1893	
Talia Sainz Costa	628-206-8152	Hunt Lab	559-884-5216 +34 606202249	Sergio Serrano 309-879-4549 +34 626833334 Steven Deeks 415-606-4082	CRP certification, Spanish, English, French, Italian, Portuguese and German
Nina Serwas	628-206-8113	Ernst Lab	628-224-3426	Daniel Serwas 628-224-2372 Agnes Prengemann 0049519352720	Language: German
Dexter Shen		Suliman Lab	415-8025718	Nina Maruyama 415-706-0612 William Shen 415-731-6096	Chinese
Michiko Shimoda	628-206-5232	CIL	706-877-4635	Pandelakis Koni 706-284-4112 Andreas Koni 706-414-5027	Japanese
Sara Suliman	857-361-8974	Suliman Lab	857-361-8974	Salma Suliman 650-426-8378 Layla Elhassan +1-2269784443	Speak Arabic
Saki Takahashi	628-206-8421	Greenhouse Lab	925-330-8603	Wei Hao 571-426-8853 Hiroko Takahashi 650-326-1135	
Cassandra Thanh	628-206-4981	Henrich Lab	909-465-3371	Harrison Wang 408-931-2267 Loni Ly 714-471-3657	
Anthony Tran	628-206-8113	Ernst Lab	408-910-0243	Vivian Nguyen 408-685-4163 Men Tran 408-507-6925	
Justin Vang-Moore	628-206-8106	DEM Administration	415-920-3206	Chi Vang-Moore 209-535-1630 Lisa Moore 828-446-9856	
Estefania Vargas Alejandre	628-206-5232	CIL	760-975-2407 760-432-9367	Leonel Vargas 760-807-0585 442-248-8242 Patricia Vargas 760-525-1165	Fluent in Spanish
Joshua Vasquez	628-206-5431	Hunt Lab	415-317-5327	Solen Sanli Vasquez 415-317-5328 John Vasquez 913-669-2222	CPR, BLS, ALS, Spanish
Joanna Vinden	628-206-8421	Greenhouse Lab	4153172263	Alyson Lund 415-518-8866 Leslie Scott 519-630-9676 519-630-8677	French
Rima Vyas	628-206-4981	Henrich Lab	510-474-2173	Hemali Vyas 510-299-8618 Pranav Vyas 510-366-8254	
Louise Wagensonner	628-206-8152	Hunt Lab	415-374-9051	Eric Wagensonner 650-452-2118 Patricia Swainson +44-1633-244774	Speaks French
Yen (Alice) Wang	628-206-3914	Rutishauser Lab	415-860-8564	Neil Dunavin 628-224-7263 Eric Wang +886 912-277-176	Penicillin
Ingrid Wiggers	628-206-8113	Ernst Lab	+4551186427	Henrik Wiggers +4522753202 Helene Nørrelund +4522753201	
Vanessa York	628-206-8096	Hunt Lab	650-255-6933	Lawanda York 650-992-4690 650-922-3915 Ronald York 650-992-4690 650-922-5716	
Lily Zemelko	628-206-3914	Rutishauser Lab	603-818-0455	Victoria Zemelko 603-339-8149	CPR and first

				Najim Bellila 725-261-7762	aid certified
Beth Shoshana Zha	628-206-8113	Ernst Lab	540-454-2779	Weibin Zha 540-454-5432 Maggie Pecora 541-335-1776	CPR/ACLS
Weihao Zheng	628-206-8113	Ernst Lab	415-359-3250	Xiaodan Cai 628-264-5786	

Equipment Item	Manufacturer	Model Number	Serial Number	Campus	Building	Room#	Owner	Custody Code	Capital Asset Tag Number
Cryofreezer	MVE	HECO 815HE-190AF-GB	For New Building-BSL2*		0	0	Rutishauser		
Cryofreezer	MVE	HECO 815HE-190AF-GB	For New Building-BSL2*		0	0	Rutishauser		
Freezer, -20		MDF-U537	For New Building-BSL2*		0	0	Rutishauser		
Freezer, -80		to be purchased			0	0	Feeney/Prahl		
Freezer, -80	Panasonic	MDF-U53VA-PA	For New Building-BSL2*		0	0	Rutishauser		
Freezer, -80	Panasonic	MDF-U53VA-PA	For New Building		0	0	Rutishauser		
Ice Maker (Request)			For New Building-BSL3		0	0	Ernst		
Biosafety Cabinet	Nuaire	NU-425-600	135953022210	ZSFG	3	374	DEM	6380	102000228
Microscope, Control Box	JH Technologies	CTR 6500 STANOL-888945	365699	ZSFG	3	502	DEM	6380	152001111
Microscope, Leica	Leica Microsystems	DFC500	7950511	ZSFG	3	502	DEM	6380	122000864
Microscope, Leica	Leica	DM6000B		ZSFG	3	502	DEM		
Videoconference Board	Cisco	SPARK BOARD 55	FTT212902DX	ZSFG	3	505	DEM	6380	172001080
Centrifuge, Microcentrifuge	Eppendorf	5425	5405JR518457	ZSFG	3	507	Rutishauser		
Centrifuge, Microcentrifuge, Refrigerated	Eppendorf	5425R	5406K1005118	ZSFG	3	507	Rutishauser	9099	212000328
Centrifuge, Mini	Corning	6770	HC208AG0006619	ZSFG	3	507	Rutishauser		
Dry Bath			50SN0294	ZSFG	3	507	Rutishauser		
Freezer, -20	PHC Corporation	MDF-U731M-PA	210290331	ZSFG	3	507	Rutishauser	9099	212000572
Nutator	Clay Adams	421105	11008190	ZSFG	3	507	Rutishauser		
Refrigerator	LRP	LRP-ARU-3004	LRP-21F0595-2106	ZSFG	3	507	Rutishauser		
Scale, Analytical			AE100	ZSFG	3	507	Rutishauser		
Vortex Genie 2	Fisher Scientific	G-560	2-358903	ZSFG	3	507	Rutishauser		
Vortex Genie 2	Fisher Scientific	G-650	2-199322	ZSFG	3	507	Rutishauser		
Water Bath	Precision 180	2827	208125-1103	ZSFG	3	507	Rutishauser		
Water Bath	Precision 280	51221048	604121118	ZSFG	3	507	Rutishauser		
Balance, Analytical	Fisher Scientific	XS105	B717027140	ZSFG	3	509	Suliman	9114	172000354
Centrifuge, Micro	Fisher Scientific	75002461	42923314	ZSFG	3	509	Suliman		
Centrifuge, Micro	Eppendorf	5415R	5426ZQ034933	ZSFG	3	509	Suliman		
Dry Bath Incubator	Fisher Scientific		70300078	ZSFG	3	509	Suliman		
Dry Bath, Digital	Corning LSE	6895FB	BL214AK0000117	ZSFG	3	509	Suliman		
Freezer, -20	Panasonic	MDF-U731M-PA	210690801	ZSFG	3	509	Suliman	9113	212000833
Incubator	Boekel	260700	04736	ZSFG	3	509	Suliman		
Microwave	Avanti		A33911109332112501406	ZSFG	3	509	Suliman		
Nutator	Clay Adams			ZSFG	3	509	Suliman		
PowerPac	Biorad			ZSFG	3	509	Suliman		
Refrigerator	LRP	LRP-ARU-3004	LRP-22AO046-2201	ZSFG	3	509	Suliman		
Rocker	Fisher Scientific			ZSFG	3	509	Suliman		
Rotator	Thermo Scientific			ZSFG	3	509	Suliman		
Scale	Mettler Toledo	PB3002-S	1123180789	ZSFG	3	509	Suliman		
Thermal Cycler	Biorad	T100	621RR68325	ZSFG	3	509	Suliman		
Thermal Cycler MJ Mini	Biorad	PTC1148	MM005011	ZSFG	3	509	Suliman		
Vortex Genie 2	Fisher Scientific	G-560	2-235907	ZSFG	3	509	Suliman		
Vortex Genie 2	Fisher Scientific	G-560	2-182144	ZSFG	3	509	Suliman		
Water Bath	Fisher Scientific	Isotemp 105	404N0142	ZSFG	3	509	Suliman		
Cabinet, Corrosive	Justrite			ZSFG	3	510	DEM		
Cabinet, Flammable	Justrite			ZSFG	3	510	DEM		
Centrifuge, Benchtop, Refrigerated	Eppendorf	Eppendorf 5810R	58811AH363021	ZSFG	3	510	DEM/Greenhouse	6380	112000506
Freezer, -80	Panasonic	MDF-U0702VXC-PA	21080436	ZSFG	3	510	Suliman	9113	212000956
Freezer, -80	Fisher Scientific Revco	UXF60086A	1160943201170725	ZSFG	3	510	DEM	6380	172000658
Freezer, -80	Revco	ULT2586-10-A42	0125605501080523	ZSFG	3	510	Feeney	6342	072001059
Freezer, -80	Panasonic	VIP+ MDF-U76VA-PA	15057N0145	ZSFG	3	510	Henrich	5602	152000777
Freezer, -80	Revco	ULT2586-9-D34	U21K-491655-VK	ZSFG	3	510	Henrich		
Ice Machine	Hoshizaki	F-330BAH	F03938B	ZSFG	3	510	DEM		
Millipore Water System	Millipore	Milli-Q Advantage A10	F1EA63674A	ZSFG	3	510	DEM	6380	112000632
ThermoCycler MasterCycler Personal	Eppendorf	5332	5332ZP359262	ZSFG	3	510	DEM		
ThermoCycler MasterCycler Pro	Eppendorf	6321	6321AI112634	ZSFG	3	510	DEM		
ThermoCycler MasterCycler Pro	Eppendorf	6321	6321AG511943	ZSFG	3	510	DEM	6380	112000507
Centrifuge, Floor	Beckman	JC-MC	JC2M10	ZSFG	3	514	DEM		
Freezer, -80	American Scientific Products New Brunswick	U9280-0000	110355670	ZSFG	3	514	DEM	6380	112000508
Rotor, Centrifuge	Thermo Scientific	Fiberlite F13B-14X50CY	6100439	ZSFG	3	514	DEM	6380	102000112
Rotor, Centrifuge	Thermo Scientific	Fiberlite F10BA-6X500Y	6122798	ZSFG	3	514	DEM	6380	152000659
qPCR machine	ABI StepOne Plus			ZSFG	3	521	Suliman		
Centrifuge, Microcentrifuge	Thermo Fisher	Hereaus Pico 17 75002411	41860793	ZSFG	3	523	Henrich		
Centrifuge, Microcentrifuge	Thermo Fisher	Hereaus Pico 17 75002411	42433515	ZSFG	3	523	Henrich		
Centrifuge, Mini	Benchmark	My FUGE C1008P	mini fuge 14991	ZSFG	3	523	Henrich		
Centrifuge, Mini	Benchmark	My FUGE C1008P		ZSFG	3	523	Henrich		
Droplet Generator	Biorad	QX100	DG-10445	ZSFG	3	523	Henrich		
Droplet Reader	Biorad	QX100	DR-10276	ZSFG	3	523	Henrich		
Freezer, -20	ABS	ABTUCBI0420ADA	4960441407	ZSFG	3	523	Henrich		
Gene Pulser	Biorad		324D13134	ZSFG	3	523	Henrich		
Heat Block	VWR		22801	ZSFG	3	523	Henrich		
Heat Block	Benchmark	BSH1002	AS-BSH2-3294	ZSFG	3	523	Henrich		
Heating Plate	Corning	6795620D	153818117242	ZSFG	3	523	Henrich		
Hood (Master mix and probes only)	Air Science USA LLC			ZSFG	3	523	Henrich		
Hood (RNA use)	Air Science USA LLC	PURAIR PCR-24	PCR74728	ZSFG	3	523	Henrich		
Hybridization Oven	Amersham	RPN2511E	R00100158	ZSFG	3	523	Henrich		
Incubator, Isotemp	Fisher Scientific	637D	503N0044	ZSFG	3	523	Henrich		
Microwave	Oster	OGH6901	H6901150102951	ZSFG	3	523	Henrich		
PowerPac Basic	Biorad		C1596141251648	ZSFG	3	523	Henrich		
Refrigerator/Freezer #1	Frigidaire	FFHT1621TW1	BA93105762	ZSFG	3	523	Henrich		
Refrigerator/Freezer #2	Frigidaire	FFHT1621QWO	BA51609541	ZSFG	3	523	Henrich		
Roche LightCycler 96	Roche	LC96	12290	ZSFG	3	523	Henrich		
Roche LightCycler 96	Roche	LC96	12348	ZSFG	3	523	Henrich	5602	152001007
Scout Pro Scale	Scout Pro	SPE202	B407306933	ZSFG	3	523	Henrich		

SimpliAmp Life Technologies Thermal Cycler	Biorad	A24812	228000533	ZSFG	3	523	Henrich		
Sonicator-Branson	Branson	Model 102C	0BU11047758	ZSFG	3	523	Henrich		
Sonifier	Branson		BCM11067712	ZSFG	3	523	Henrich		
Stirrer	Corning		410503286855	ZSFG	3	523	Henrich		
Thermal Cycler MJ Mini	Biorad		MM05170	ZSFG	3	523	Henrich		
Thermal Cycler MJ Mini	Biorad		MM05150	ZSFG	3	523	Henrich		
ThermoFisher Electrophoresis Machine	Thermo Fisher	FB300	310N0402	ZSFG	3	523	Henrich		
ThermoFisher Electrophoresis Machine	Thermo Fisher	FB300	C1596141251648	ZSFG	3	523	Henrich		
Vortex Mixer, Mini	Benchmark	BV101-P Vornado	14052680	ZSFG	3	523	Henrich		
Vortex Mixer, Mini	Benchmark	BV101-P Vornado	14052204	ZSFG	3	523	Henrich		
VWR Standard Analog Shaker	VWR	89032088	150327007	ZSFG	3	523	Henrich		
Water Bath	Precision		604101841	ZSFG	3	523	Henrich		
Centrifuge, Mini	Corning			ZSFG	3	525	Feeney		
Centrifuge, Mini	Microfuge 18	367160	MFA01G077	ZSFG	3	525	Feeney		
Freezer, -20	Fisher Isotemp	13-986-148F	1522070768135	ZSFG	3	525	Feeney		
Invitrogen Qubit 4	Invitrogen			ZSFG	3	525	Feeney		
Microscope		N-117M	102827	ZSFG	3	525	Feeney		
Microscope	Keyence	BZ-X710		ZSFG	3	525	Feeney	6342	152001177
Microscope	Amscope		107086	ZSFG	3	525	Feeney		
Refrigerator/Freezer	Kenmore	106.6023 2903	VSO4852077	ZSFG	3	525	Feeney		
Scale	Denver Instruments			ZSFG	3	525	Feeney		
Thermal Cycler	Eppendorf	5345	5345019229	ZSFG	3	525	Feeney	6342	082000033
Vortex	Fisher Scientific	Genie 2		ZSFG	3	525	Feeney		
Freezer, -20 Undercounter	VWR	HF-5017W-PA	140800527	ZSFG	3	534	Henrich		
Freezer, -20 Undercounter	VWR	HCUCFS0420	HQVWR17C5201703	ZSFG	3	534	Henrich		
Freezer, -20 Undercounter	Avanti	SHP2501B	A60263250161852600053	ZSFG	3	534	Henrich		
Hood	Air Science USA LLC	PCR74748		ZSFG	3	534	Henrich		
Vortex	Fisher Scientific			ZSFG	3	534	Henrich		
Flow Cytometer	BD	LSR II	H1149	ZSFG	3	538	CIL	6062	052002196
Flow Cytometer	BD	LSR2	P47300019	ZSFG	3	538	DEM	6380	072000946
Flow Cytometer, Laser	BD	HP Z220CMT	24A35128RG	ZSFG	3	538	DEM	6380	142000359
Videoconference System	Owl		M2FN09221993	ZSFG	3	605	DEM	N/A	N/A
Cabinet, Flammable	Eagle	Eagle 2310		ZSFG	3	609	Hunt		
Centrifuge, Microcentrifuge	Eppendorf	5415D	5425 0077669	ZSFG	3	609	Hunt		
Centrifuge, Mini	Fisher Scientific		SW04070230	ZSFG	3	609	Hunt		
Centrifuge, Mini	Capsulefuge	PMC-880	43314210	ZSFG	3	609	Hunt		
Dewars, Liquid nitrogen 10L transfer				ZSFG	3	609	Hunt		
Dewars, Liquid nitrogen 10L transfer				ZSFG	3	609	Hunt		
Electrophoresis Power Supply	Fisher Scientific	FB570	59220	ZSFG	3	609	Hunt		
Freezer, -20		Undercounter	No data on freezer	ZSFG	3	609	Hunt		
Freezer, -20	Fisher Scientific	13-986-148	0121716801130626	ZSFG	3	609	Hunt		
Freezer, -20	Fisher Scientific	13-986-148	0119924001101228	ZSFG	3	609	Hunt		
Freezer, -20	Sanyo	MDF-U537D	41115188	ZSFG	3	609	Hunt		
Hybridization Oven	ACD	241000ACD	134355857	ZSFG	3	609	Hunt		
Hybridization Oven	ACD	241000ACD	7621-81113	ZSFG	3	609	Hunt		
Hybridization Oven	ACD	241000ACD	1407-58570	ZSFG	3	609	Hunt		
Microhybridization Oven	bellco			ZSFG	3	609	Hunt		
Microscope (Compound)/teaching head	Nikon	Optiphot	252787 or 213767	ZSFG	3	609	Hunt		
Microtome		accu cut SRM		ZSFG	3	609	Hunt		62000787
Microwave	Daewoo	KOR-INOA	TM08YE16231843	ZSFG	3	609	Hunt		N/A
PCR Machine	ABI	ABI 9700		ZSFG	3	609	Hunt		
Plate Shaker	Lab Line Instruments	Titler	1190-1039	ZSFG	3	609	Hunt		
Pressure cooker	Biocare Medical		DC12-0895	ZSFG	3	609	Hunt		
Refrigerator		13-986-151B	2019071286916	ZSFG	3	609	Hunt		
Stirrer	Fisher Scientific	Fisher Isotemp	407N2139	ZSFG	3	609	Hunt		
Stirrer	Fisher Scientific	Fisher Isotemp	1898090160601	ZSFG	3	609	Hunt		
Stirrer	MagStir Genie	SI-030X	M3-1125	ZSFG	3	609	Hunt		
Thermal Cycler, DNA Engine	MJ Research	Dyad	DY001586	ZSFG	3	609	Hunt	6386	022000030
Vortex	VWR	G-560	not readable anymore	ZSFG	3	609	Hunt		
Vortex	fisher Scientific	G-560	2-240829	ZSFG	3	609	Hunt		
Vortex	fisher Scientific	G-560	2-187595	ZSFG	3	609	Hunt		
Water Bath		Precision 181		ZSFG	3	609	Hunt		
Water Bath		Precision 180		ZSFG	3	609	Hunt		
Balance	Fisher Scientific			ZSFG	3	611	Hunt		
Cabinet, Flammable	Eagle	Eagle 2310		ZSFG	3	611	Hunt		
Centrifuge, Microcentrifuge	Eppendorf	5415C	5415 89125	ZSFG	3	611	Hunt		
Centrifuge, Microcentrifuge	Eppendorf	5415D	5425 55050	ZSFG	3	611	Hunt		
Centrifuge, Mini	ISC Express	C1301-LP	06070399	ZSFG	3	611	Hunt		
Centrifuge, Mini	VWR Galaxy Mini		03020859	ZSFG	3	611	Hunt		
Centrifuge, Mini	Fisher Scientific	05-090-100	60620321	ZSFG	3	611	Hunt		
Dry Bath	Fisher Scientific			ZSFG	3	611	Hunt		
Heat Block, Digital	VWR		2012	ZSFG	3	611	Hunt		
Hybridization Incubator	Robbins Scientific	Model 310	9215570713	ZSFG	3	611	Hunt		
Orbitron	Boekel	model 260250	00621	ZSFG	3	611	Hunt		
Plate Reader	MesoScale	MesoScl 1300 Meso QuickPlex	13002110111953	ZSFG	3	611	Hunt	6386	212000878
PowerPac 300	Biorad			ZSFG	3	611	Hunt		
PowerPac 3000	Biorad			ZSFG	3	611	Hunt		
Printer, Label	Zebra			ZSFG	3	611	Hunt		
Refrigerator	Fisher Scientific	13-986-151B	411N0192	ZSFG	3	611	Hunt		
Refrigerator, Undercounter	Sanyo			ZSFG	3	611	Hunt		
Refrigerator, Undercounter	AbsoCold			ZSFG	3	611	Hunt		
Stirrer	Fisher Scientific	11-600-49H	1617060431823	ZSFG	3	611	Hunt		
Vortex	Fisher Scientific			ZSFG	3	611	Hunt		

Vortex fixed speed	Fisher Scientific		100601012	ZSFG	3	611	Hunt		
Vortex Genie 2	Fisher Scientific	G-560	2-294843	ZSFG	3	611	Hunt		
Water Bath	Precision	2829	201904415	ZSFG	3	611	Hunt		
Centrifuge, Floor	Sorvall	Sorvall RC 5B Plus	9903025	ZSFG	3	612	Ernst		
Cryofreezer, Dewar	MVE	LS3000	238817	ZSFG	3	612	Hunt		
Freezer, -80	Revco	ULT2586-9-D34	W05K-496613-YK	ZSFG	3	612	Hunt		
Freezer, -80	Stirling	SU780XLE-PWR5	20020-11827	ZSFG	3	612	Javid	9013	202000220
Freezer, -80	Revco	ULT1375-7-A12	P01E-200108-PE	ZSFG	3	612	Ernst		
Freezer, -80	Stirling	SU780XLE	19041-14017	ZSFG	3	612	Ernst	6343	192000503
Freezer, -80	Stirling	SU780XLE	21090-16664	ZSFG	3	612	Ernst	6343	222000078
Freezer, -80	PHC Corporation of North America	MDF-DU702VXC-PA	19120465	ZSFG	3	612	Hunt	5601	202000847
Ice Machine	Hoshizaki America Inc	F-330BAJ	F00122K	ZSFG	3	612	DEM		
Incubator Shaker	New Brunswick	Excella E25	010347360	ZSFG	3	612	DEM	6380	102000466
Incubator, Non-CO2	Fisher Scientific	750D	10800061	ZSFG	3	612	DEM		
Millipore Water System	Millipore	Milli-Q Advantage A9	F45A43397G	ZSFG	3	612	DEM	6380	152000252
Speed Vac	Fisher Scientific	SAVANTISS110	VOIY-445295-VY	ZSFG	3	612	DEM	6380	132000849
Cabinet, Corrosive	Justrite			ZSFG	3	616	DEM		
Cabinet, Flammable	Justrite			ZSFG	3	616	DEM		
Cryofreezer	Taylor Wharton	LABS 20K-CS	38163	ZSFG	3	616	DEM/Hunt	6380	162000421
Cryofreezer	MVE	815HE-190AF-GB	CAB2120340016	ZSFG	3	616	Henrich	5602	202000899
Flow Cytometer, Aurora	Cytek	N7-00003 AURORA	U0904	ZSFG	3	616	DEM	6380	212000674
Vortex Genie 2	Fisher Scientific			ZSFG	3	616	DEM		
Autoclave	Amsco	Eagle 3044	010719101	ZSFG	3	621	DEM		
Autoclave	Amsco	Eagle 3044	010679102	ZSFG	3	621	DEM		
Dryer	AMSCO Reliance	1024	3612191291	ZSFG	3	621	DEM		
Dryer	AMSCO Reliance	1024	3612191292	ZSFG	3	621	DEM		
Incubator	Fisher Isotemp	Isotemp 500 Series 506G	11000253	ZSFG	3	621	DEM		
Washer	AMSCO Reliance	470	3606191211	ZSFG	3	621	DEM		
Washer	AMSCO Reliance	470	3606191212	ZSFG	3	621	DEM		
Manifold	Accutrol	B1HL-4-6	87690192	ZSFG	3	622	DEM		
Bioanalyzer	Agilent	2100	DE54107234	ZSFG	3	626	DEM	6380	152001095
Imaging System	Bio-rad	ChemiDoc MP Imaging System	734BR4628	ZSFG	3	626	DEM	6380	202000812
Light box	Fotodyne	Fotoprep 1 3-3500	PTAL-0193-2138	ZSFG	3	626	DEM		
Centrifuge, Microcentrifuge	Eppendorf	Centrifuge 5418	5418IM227491	ZSFG	3	629	Javid		
Centrifuge, Mini	Labnet	C1601-B	HA203AH00000885	ZSFG	3	629	Javid		
Centrifuge, Mini	Labnet			ZSFG	3	629	Javid		
Centrifuge, Mini				ZSFG	3	629	Javid		
Centrifuge, Mini				ZSFG	3	629	Javid		
Electrophoresis Power supply	BioRad	PowerPac Basic	041BR301904	ZSFG	3	629	Javid		
Electrophoresis Power supply	BioRad	PowerPac HC	043BR84674	ZSFG	3	629	Javid		
Freezer, -30	Sanyo	MDF-U537	51014357	ZSFG	3	629	Javid		
Heat Block	Fisher Scientific	14955220	1381603119090040	ZSFG	3	629	Javid		
Heat Block, Digital	VWR			ZSFG	3	629	Javid		
Incubator	Heratherm			ZSFG	3	629	Javid		
Incubator	Heratherm			ZSFG	3	629	Javid		
Incubator Shaker	Eppendorf	NEW BRUNSWICK EXCELLA E24	SE24JP103149	ZSFG	3	629	Javid	9013	212000036
Incubator Shaker	Brunswick	i26	SI26IIP001181	ZSFG	3	629	Javid	9013	212000049
Refrigerator/Freezer #1	Fisher Scientific	18LCEEFSFA	1163539301191119	ZSFG	3	629	Javid		
Refrigerator/Freezer #2	Fisher Scientific	18LCEEFSFA	1163539201191119	ZSFG	3	629	Javid		
Rotator	Fisher Scientific	2314	C1665110834198	ZSFG	3	629	Javid		
Rotator	Thermo Scientific			ZSFG	3	629	Javid		
Roto-torque	Cole Parmer	7637	891000924	ZSFG	3	629	Javid		
Stirrer	Corning			ZSFG	3	629	Javid		
Thermocycler	BioRad	C1000 Touch Thermal Cycler	CT042360	ZSFG	3	629	Javid		
Ultrasonicator, Focused	Covaris	S220	006115	ZSFG	3	629	Javid	9002	202000542
Vortex Mixer	Gene Mate	S-3200-1	1010206	ZSFG	3	629	Javid		
Vortex Mixer	Corning		000021039076	ZSFG	3	629	Javid		
Vortex Mixer	Corning		000021039084	ZSFG	3	629	Javid		
Vortex Mixer				ZSFG	3	629	Javid		
Vortex-T Genie 2	Scientific Industries	SI-T236	T3-6254	ZSFG	3	629	Javid		
Vortex-T Genie 2				ZSFG	3	629	Javid		
Vortex-T Genie 2				ZSFG	3	629	Javid		
Vortex-T Genie 2				ZSFG	3	629	Javid		
NanoDrop1	Thermo Fisher Scientific	ND-ONE-W	AZY1916965	ZSFG	3	632	DEM	6380	202000025
Plate reader	Molecular Devices	SPECTRAMAX M3	MT05926	ZSFG	3	632	DEM	6380	162000750
qPCR Machine	ABI Life Technologies	ABI StepOnePlus	272001523	ZSFG	3	632	DEM		
3D Printer	AnyCubic			ZSFG	3	635	Ernst		
AKTA FPLC	Amersham pharmacia			ZSFG	3	635	Ernst		
Centrifuge, Benchtop, Refrigerated	Eppendorf	5804R	5805 04506	ZSFG	3	635	Ernst		
Centrifuge, Benchtop, Refrigerated	Beckman	Allegra 6R	ALR07C14	ZSFG	3	635	DEM	6380	072000949
Centrifuge, Microcentrifuge	Thermo Scientific	Sorvall Legend Micro 17	42313483	ZSFG	3	635	Ernst		
Centrifuge, Microcentrifuge	Thermo Scientific	Sorvall Legend Micro 17 75002431	42313919	ZSFG	3	635	Ernst		
Centrifuge, Microcentrifuge	Thermo Scientific	Sorvall Legend Micro 17 75002441	42313484	ZSFG	3	635	Ernst		
Centrifuge, Microcentrifuge	Thermo Scientific	Sorvall Legend Micro 17 75002431	42313918	ZSFG	3	635	Ernst		
Centrifuge, Microcentrifuge, Refrigerated	Eppendorf	5417R	5407 13100	ZSFG	3	635	Ernst		
Centrifuge, Mini	Benchmark	MyFuge C1012	20210408903	ZSFG	3	635	Ernst		
Centrifuge, Mini	Crystal	MLX106	2814082	ZSFG	3	635	Ernst		
Centrifuge, Mini	Crystal	MLX106	3010253	ZSFG	3	635	Ernst		
Centrifuge, Mini	Crystal	MLX106	3010296	ZSFG	3	635	Ernst		
Centrifuge, Mini	Crystal	MLX106	3010289	ZSFG	3	635	Ernst		
Centrifuge, Mini	Ohaus	FC5306	B5020002616	ZSFG	3	635	Ernst		
Centrifuge, Mini	Ohaus	FC5306	B520002614	ZSFG	3	635	Ernst		
Centrifuge, Mini	Ohaus	FC5306	B520002615	ZSFG	3	635	Ernst		

Centrifuge, Mini	Ohaus	FC5306	B520002617	ZSFG	3	635	Ernst		
Cryofreezer	Thermo Scientific	CryoExtra 40	CAB2115150739	ZSFG	3	635	Ernst		
Dry Bath	Fisher Scientific		309N0723	ZSFG	3	635	Ernst		
E-Gel	Invitrogen			ZSFG	3	635	Ernst		
Freezer, -20	Fisher Scientific	20FFEEFSA	1168749001180610	ZSFG	3	635	Ernst		
Freezer, -20	Fisher Scientific	20FFEEFSA	1168758701180610	ZSFG	3	635	Ernst		
Freezer, -20	Fisher Scientific	20FFEEFSA	1168758301180610	ZSFG	3	635	Ernst		
Incubator	Fisher Isotemp			ZSFG	3	635	Ernst		
Microhybridization Oven	Bellco Glass Inc		BMB0-290	ZSFG	3	635	Ernst		
Microwave	Panasonic			ZSFG	3	635	Ernst		
Octo Dissociator	Millenyl	Octo Dissociator	00910	ZSFG	3	635	Ernst	6343	222000194
Plate reader	Biotek		150819F	ZSFG	3	635	Ernst		
Plate reader, Elispot ImmunoSpot	Cellular Technology Limited	CTL S6 Core Analyzer	S6CORE-02-2033	ZSFG	3	635	Ernst	6343	192000878
Plate washer	Biotek	405TSRS	150513D	ZSFG	3	635	Ernst		
PowerPac	Biorad			ZSFG	3	635	Ernst		
Printer, Label	Brady	JP300	0039533	ZSFG	3	635	Ernst		
QuantStudio3	Applied Biosystems		272321439	ZSFG	3	635	Ernst		
Refrigerator, Undercounter	Sears	564.896608	880810995	ZSFG	3	635	Ernst		
Refrigerator/Freezer	Fisher Scientific	18LCEEFS	1168793301180620	ZSFG	3	635	Ernst		
Refrigerator/Freezer	Fisher Scientific	18LCEEFS	1150263701181120	ZSFG	3	635	Ernst		
Refrigerator/Freezer	Fisher Scientific	18LCEEFS	1168793201180620	ZSFG	3	635	Ernst		
Rocker	Thermo Fisher	M79735	C2030180302665	ZSFG	3	635	Ernst		
Rotator	Thermo Fisher	2309	C166411062419A	ZSFG	3	635	Ernst		
Spectrophotometer, SmartSpec	Bio-Rad	SmartSpec	273BR03324	ZSFG	3	635	Ernst		
Stir Plate	Thermo Scientific	SuperNuova S88850190	C2019008031804689	ZSFG	3	635	Ernst		
Stirrer	Corning	PC220	370205229229	ZSFG	3	635	Ernst		
Stirrer, Hot	Cimarec	SP88850100	C3010004041807076	ZSFG	3	635	Ernst		
Stirrer, Hot	Cimarec	SP88850190	C3010004041807050	ZSFG	3	635	Ernst		
Thermocycler	Biorad	C1000		ZSFG	3	635	Ernst		
Vortex	Fisher Scientific	2215370	090520005	ZSFG	3	635	Ernst		
Vortex Genie 2	Scientific Industries	G-560	2-363409	ZSFG	3	635	Ernst		
Vortex Genie 2	Scientific Industries	G-560	2-362144	ZSFG	3	635	Ernst		
Vortex Genie 2	Scientific Industries	G-560	2-368903	ZSFG	3	635	Ernst		
Vortex Mixer	Fisher Scientific	02215370	110502003	ZSFG	3	635	Ernst		
Vortex Mixer	Fisher Scientific	02215370	070313013	ZSFG	3	635	Ernst		
Vortex Mixer	Fisher Scientific	02215370	070313030	ZSFG	3	635	Ernst		
Vortex Mixer	Ohaus	VXMNAL	171115037	ZSFG	3	635	Ernst		
Vortex Mixer	Ohaus	VXMNAL	171115036	ZSFG	3	635	Ernst		
Vortex Mixer	Ohaus	VXMNAL	171213024	ZSFG	3	635	Ernst		
Water Bath, Shaking	Fisher Scientific	TSSWB15	300202530	ZSFG	3	635	Ernst		
Balance	Fisher Scientific	AMF104	B820863956	ZSFG	3	636	DEM		
pH meter	Thermo Fisher	Accumet AE150		ZSFG	3	636	DEM		
Scale	Mettler Toledo	PM4600	H20449	ZSFG	3	636	DEM		
Stirrer, Hot	Cimarec	8P88854100	C3410011021803495	ZSFG	3	636	DEM		
Ultrasonic Cleaner				ZSFG	3	636	Ernst		
Microscope	Leica	DMRB	140218	ZSFG	3	638	Ernst	6343	132000037
Microscope	Nikon	Diaphot		ZSFG	3	638	Ernst		
Rocker	Boeckel	260350	174509921	ZSFG	3	644	Ernst		
Rotator	Thermo Scientific	88880021	1K1K21003	ZSFG	3	644	Ernst		
Rotator		S12000	R60-2373	ZSFG	3	644	DEM		
Rotator				ZSFG	3	644	DEM		
Stirrer	Cimarec	SP88850190	C2019008031804691	ZSFG	3	644	Ernst		
Balance	Fisher Scientific	821-T		ZSFG	3	511 (BSL2)	DEM		
Balance	Mettler Toledo	PB405-S	1123283243	ZSFG	3	511 (BSL2)	DEM		
Biosafety Cabinet, 6ft. #1	Nuair	NU-407FM-600	4359	ZSFG	3	511 (BSL2)	DEM		
Biosafety Cabinet, 6ft. #2	Nuair	NU-407FM-600	4370	ZSFG	3	511 (BSL2)	DEM		
Biosafety Cabinet, 6ft. #3	Nuair	NU-407FM-600	4367	ZSFG	3	511 (BSL2)	DEM		
Biosafety Cabinet, 6ft. #4	Nuair	NU-407FM-600	4366	ZSFG	3	511 (BSL2)	DEM		
Cabinet, Flammable	Eagle	Eagle 2310		ZSFG	3	511 (BSL2)	Hunt		
Cell Counter	Bio-rad	TC-20	508BR11976	ZSFG	3	511 (BSL2)	DEM		
Cell Counter	Millipore	Muse	7200121542	ZSFG	3	511 (BSL2)	DEM	6380	152000612
Centrifuge, Benchtop, Refrigerated	Thermo Scientific	Sorvall Legend XTR	41038015	ZSFG	3	511 (BSL2)	Feeney	6342	102000698
Centrifuge, Microcentrifuge	Hettich	Mikro 220R	0003618-06-00	ZSFG	3	511 (BSL2)	DEM		
Centrifuge, Microcentrifuge	Eppendorf	5424	5424XP121162	ZSFG	3	511 (BSL2)	DEM		
Centrifuge, Microcentrifuge	Corning			ZSFG	3	511 (BSL2)	DEM		
Cryofreezer	MVE	XLC 810HE	CAB2109180015	ZSFG	3	511 (BSL2)	Feeney	6379	092000722
Cryofreezer	Worthington Industries	TWLABS20CS	35861	ZSFG	3	511 (BSL2)	Feeney	6342	152000817
Cryofreezer	MVE	MVE HECO 815P	CAB211727007	ZSFG	3	511 (BSL2)	Feeney	6342	172000557
Cryofreezer	MVE	800 Series-150 XLC810HE	CAB2109440026	ZSFG	3	511 (BSL2)	DEM/Feeney	6380	092001124
Dry Bath incubator	Barnstead Thermolyne			ZSFG	3	511 (BSL2)	DEM		
Freezer, -20	Thermo Scientific	3767A	0118899801100311	ZSFG	3	511 (BSL2)	DEM		
Freezer, -80	Panasonic	MDF-DU702VH-PA	17070122	ZSFG	3	511 (BSL2)	DEM	6380	172001241
Freezer, -80	Thermo Scientific	ULT2586-10A46	0128894601100203	ZSFG	3	511 (BSL2)	Feeney	6342	102000102
Homogenizer and Stand	Kinematica	Polytron 10/35 GT	PF-768-0016-04-02	ZSFG	3	511 (BSL2)	DEM		
Homogenizer Generator	Kinematica	PT-DA3007/2		ZSFG	3	511 (BSL2)	DEM		
Incubator, CO2	Thermo Scientific	Heracell 150i	41111299	ZSFG	3	511 (BSL2)	Feeney		
Incubator, CO2	Thermo Scientific	Model 3110	306062-28618	ZSFG	3	511 (BSL2)	DEM		
Incubator, CO2	Thermo Scientific	Model 3110	306062-28644	ZSFG	3	511 (BSL2)	DEM		
Microscope (Inverted)	Nikon	Eclipse TS100-F	306310	ZSFG	3	511 (BSL2)	DEM	6380	092000841
Microscope, Light	Zeiss	Primo Star	176045	ZSFG	3	511 (BSL2)	Feeney		
Nucleofector	Lonza	4D Core unit and X-unit	813B1022	ZSFG	3	511 (BSL2)	DEM	6380	132000928
Refrigerator, Deli	Thermo Scientific	REL5004A21	V31U-143760-WU	ZSFG	3	511 (BSL2)	DEM		
Refrigerator/Freezer	Thermo Scientific	RCRF252A14	011V-188343-OV	ZSFG	3	511 (BSL2)	Feeney		

Rotator	Lab Line	4631	1099-0729	ZSFG	3	511 (BSL2)	DEM		
Stirrer, Magnetic	Bellco			ZSFG	3	511 (BSL2)	DEM		
Vario MACS	Miltenyi			ZSFG	3	511 (BSL2)	DEM		
Vortex	Fisher Scientific	02215365	091008003	ZSFG	3	511 (BSL2)	DEM		
Vortex	Fisher Scientific	Genie 2 G-560	2-408796	ZSFG	3	511 (BSL2)	DEM		
Vortex	Fisher Scientific	02215365	091006051	ZSFG	3	511 (BSL2)	DEM		
Vortex	Fisher Scientific	Genie 2 G-560	2-408831	ZSFG	3	511 (BSL2)	DEM		
Water Bath	Fisher Scientific	Isotemp Analog-Control Water Bath Model 110	1601081259024	ZSFG	3	511 (BSL2)	DEM		
Balance	Ohaus	Harvard Trip	40448	ZSFG	3	615 (BSL2*)	DEM		
Balance	Mettler Toledo	KS104	1129051904	ZSFG	3	615 (BSL2*)	DEM		
Biosafety Cabinet, 6ft Baker	Baker	SG-603A	92842	ZSFG	3	615 (BSL2*)	Feeney/DEM	072000846	
Biosafety Cabinet, 6ft. #5 Broken	Nuair	NU-407FM-600	4369	ZSFG	3	615 (BSL2*)	DEM		
Biosafety Cabinet, 6ft. #6	Nuair	NU-407FM-600	4364	ZSFG	3	615 (BSL2*)	DEM		
Biosafety Cabinet, 6ft. #7	Nuair	NU-407FM-600	4368	ZSFG	3	615 (BSL2*)	DEM		
Biosafety Cabinet, 6ft. #8	Nuair	NU-407FM-600	4363	ZSFG	3	615 (BSL2*)	DEM		
Biosafety Cabinet, 6ft. #9	Nuair	NU-407FM-600	4365	ZSFG	3	615 (BSL2*)	DEM		
Biosafety Cabinet, 6ft. Aria	Baker	BCE IV FACSARIA BP504-5	126206	ZSFG	3	615 (BSL2*)	DEM	6062	182000327
Cabinet, Flammable, Undercounter	Justrite			ZSFG	3	615 (BSL2*)	DEM		
Cell Counter	Bio-rad	TC-20	508BR11259	ZSFG	3	615 (BSL2*)	Henrich/Rutishauser		
Cell Counter	Invitrogen	Countess C10227	09033-016	ZSFG	3	615 (BSL2*)	Ernst/DEM		
Centrifuge, Benchtop, Refrigerated	Beckman Coulter	Allegra 6R		ZSFG	3	615 (BSL2*)	DEM		
Centrifuge, Benchtop, Refrigerated	Eppendorf	5810R	58112J145838	ZSFG	3	615 (BSL2*)	Hunt		102001001
Centrifuge, Benchtop, Refrigerated	Sorvall	Legend XTR	42083581	ZSFG	3	615 (BSL2*)	DEM	6380	172000178
Centrifuge, Benchtop, Refrigerated	Sorvall	Legend XTR	42083583	ZSFG	3	615 (BSL2*)	DEM	6380	172000179
Centrifuge, Microcentrifuge	Sorvall	Legend Micro 17	41291038	ZSFG	3	615 (BSL2*)	DEM		
Centrifuge, Microcentrifuge	Sorvall	Legend Micro 21	41932447	ZSFG	3	615 (BSL2*)	DEM		
Centrifuge, Microcentrifuge	Hettich	Mikro 22R	0003614-06-00	ZSFG	3	615 (BSL2*)	DEM		
Cryofreezer	MVE	MVE	CVL208E101	ZSFG	3	615 (BSL2*)	DEM		
Cryofreezer	MVE	MVE		ZSFG	3	615 (BSL2*)	DEM		
Cryofreezer	Taylor Wharton	LABS 20K	815 002 MM7	ZSFG	3	615 (BSL2*)	Henrich	5602	152001187
Cryofreezer	MVE	HECO 815HE-190AF-GB	N1412-01-0710B	ZSFG	3	615 (BSL2*)	Henrich	5602	192000300
Cryofreezer	MVE	MVE 815-P	CAB2110180005	ZSFG	3	615 (BSL2*)	Hunt	6380	102000536
Cryofreezer	MVE	MVE 818-HE	CAB2111350018	ZSFG	3	615 (BSL2*)	Hunt	6380	112000877
DEM Unknown				ZSFG	3	615 (BSL2*)	DEM		
Digital Microplate Shaker	Corning	LSE	17083600	ZSFG	3	615 (BSL2*)	Odorizzi/DEM		
Digital Microplate Shaker	Corning	LSE	1703	ZSFG	3	615 (BSL2*)	Rutishauser/Hunt		
Dry Bath	Fisher Scientific		209N0205	ZSFG	3	615 (BSL2*)	DEM		
Dry Bath	Fisher	Isotemp 145D	310N0144	ZSFG	3	615 (BSL2*)	DEM		
Freezer, -20	Sanyo	MDF-U537	51014356	ZSFG	3	615 (BSL2*)	Hunt		
Freezer, -20 Undercounter	General Electric	CA5DMC		ZSFG	3	615 (BSL2*)	DEM		
Freezer, -80	Panasonic	MDF-U53VA-PA	17010006	ZSFG	3	615 (BSL2*)	Henrich	5602	172000337
Freezer, -80	PHC Corporation of North America	MDF-DU702VXC-PA	20020075	ZSFG	3	615 (BSL2*)	Hunt	5601	202000979
Ice Machine	Hoshizaki	F330-BAJ	F039428	ZSFG	3	615 (BSL2*)	DEM		
Incubator, CO2 #10	Thermo Scientific	Forma 3110	306062-28631	ZSFG	3	615 (BSL2*)	DEM		
Incubator, CO2 #11	Thermo Scientific	Forma 3110	306062-28646	ZSFG	3	615 (BSL2*)	DEM		
Incubator, CO2 #5	Thermo Scientific	Forma 3110	305709-28210	ZSFG	3	615 (BSL2*)	DEM		
Incubator, CO2 #6	Thermo Scientific	Forma 3110	306062-28621	ZSFG	3	615 (BSL2*)	DEM		
Incubator, CO2 #7	Thermo Scientific	Forma 3110	306062-28828	ZSFG	3	615 (BSL2*)	DEM		
Integra VacuSafe	Integra	VacuSafe	110338	ZSFG	3	615 (BSL2*)	DEM		
Magnet Stand	StemCell Technologies			ZSFG	3	615 (BSL2*)	DEM		
Microscope, Leica	Leica	DMIL LED	431093	ZSFG	3	615 (BSL2*)	DEM	6380	162000422
Microscope, Nikon	Nikon	TMS		ZSFG	3	615 (BSL2*)	DEM		
Microscope, Olympus	Olympus	BHT		ZSFG	3	615 (BSL2*)	DEM		
Orbital Shaker, Low Speed	Corning	LSE	18014010	ZSFG	3	615 (BSL2*)	DEM/Rutishauser		
PCR Machine	ABI	PCR 9700		ZSFG	3	615 (BSL2*)	DEM		
Plate Sealer	Biorad	PX1	770BR4285	ZSFG	3	615 (BSL2*)	Henrich		
Refrigerator	Gibson	RM18F5WX	LA13011240	ZSFG	3	615 (BSL2*)	Hunt		
Refrigerator, Undercounter	Sanyo			ZSFG	3	615 (BSL2*)	CIL		
Refrigerator/Freezer	Frigidaire	FFHT1621QWO	A52316399	ZSFG	3	615 (BSL2*)	Henrich		
Refrigerator/Freezer Combo	Kenmore	363.9634716	L24940202	ZSFG	3	615 (BSL2*)	DEM		
Rocker	Nutator			ZSFG	3	615 (BSL2*)	DEM		
Rocker	Nutator			ZSFG	3	615 (BSL2*)	DEM		
Rotator	Lab line	4630	11049219	ZSFG	3	615 (BSL2*)	DEM		
Sonicator	Fisher Scientific	FS-20		ZSFG	3	615 (BSL2*)	DEM		
Sorter	BD	Aria		ZSFG	3	615 (BSL2*)	DEM	6380	
Syringe Pump	Syringe Pump			ZSFG	3	615 (BSL2*)	Henrich		
Syringe Pump	Syringe Pump			ZSFG	3	615 (BSL2*)	Henrich		
Syringe Pump	Syringe Pump			ZSFG	3	615 (BSL2*)	Henrich		
Tissue Lyser	Qiagen	Tissuelyser II	1211160516	ZSFG	3	615 (BSL2*)	DEM	6380	112000805
Ultracentrifuge	Beckman Coulter	Optima L-100K	COL06H35	ZSFG	3	615 (BSL2*)	DEM	6380	072000950
Vortex	Fisher Scientific	Genie 2 G-560	2-240047	ZSFG	3	615 (BSL2*)	DEM		
Vortex	Fisher Scientific	02215365	100907066	ZSFG	3	615 (BSL2*)	DEM		
Vortex	Fisher Scientific	02215365	100915041	ZSFG	3	615 (BSL2*)	DEM		
Vortex	Fisher Scientific	Genie 2 SI-0236	2-454745	ZSFG	3	615 (BSL2*)	DEM		
Vortex	Fisher Scientific	Genie 2 G-560	2-194163	ZSFG	3	615 (BSL2*)	DEM		
Vortex	Fisher Scientific	Genie 2 G-560	2-187857	ZSFG	3	615 (BSL2*)	DEM		
Vortex	Fisher Scientific		100617112	ZSFG	3	615 (BSL2*)	DEM		
Water bath	Fisher Isotemp	2LS-M	605184	ZSFG	3	615 (BSL2*)	DEM		
Water Bath	Thermo Scientific	20L Water Bath		ZSFG	3	615 (BSL2*)	DEM		
Balance	Ohaus		31009	ZSFG	3	623 (BSL2)	DEM		
Biosafety Cabinet, 6ft. #10	Nuair	NU-407FM-600	4362	ZSFG	3	623 (BSL2)	DEM		
Biosafety Cabinet, 6ft. #11	Nuair	NU-407FM-600	4371	ZSFG	3	623 (BSL2)	DEM		
Biosafety Cabinet, 6ft. #12	Nuair	NU-407FM-600	4360	ZSFG	3	623 (BSL2)	DEM		

Biosafety Cabinet, 6ft. #13	Nuaire	NU-407FM-600	4361	ZSFG	3	623 (BSL2)	DEM		
Cell Counter	Invitrogen	Countless	10084-033	ZSFG	3	623 (BSL2)	Ernst		
Centrifuge, Benchtop, Refrigerated	Beckman	GS-6R	GR1L84	ZSFG	3	623 (BSL2)	DEM		
Centrifuge, Benchtop, Refrigerated	Sorvall	Legend XTR	42310951	ZSFG	3	623 (BSL2)	Ernst	6582	182000573
Centrifuge, Microcentrifuge	Sorvall	Micro 17	41369833	ZSFG	3	623 (BSL2)	DEM		
Centrifuge, Microcentrifuge, Refrigerated	Eppendorf	5415R	0016678	ZSFG	3	623 (BSL2)	Ernst or Vasquez?		
Centrifuge, Microcentrifuge, Refrigerated	Eppendorf	5430R	5428HN226760	ZSFG	3	623 (BSL2)	Ernst	6582	182001524
Cryofreezer, Dewar	Worthington LS4800	LS4800	71946	ZSFG	3	623 (BSL2)	Ernst		
Cryofreezer, Dewar	Worthington LS4800	LS4800	57960	ZSFG	3	623 (BSL2)	Ernst		
Cryofreezer, Dewar	Taylor Wharton 35VHC	35VHS	501-059-B4	ZSFG	3	623 (BSL2)	Ernst		
Cytospin 2	Shandon	MA8851117		ZSFG	3	623 (BSL2)	DEM		
Cytospin 4	Shandon	A78300101	CY383G0608	ZSFG	3	623 (BSL2)	Ernst		
Freezer, -20	Lab Line	3767A	0146709501120725	ZSFG	3	623 (BSL2)	Hunt		
Freezer, -20 Undercounter	GE	GE	2G108445	ZSFG	3	623 (BSL2)	Ernst		
Gene Pulser	Bio-Rad			ZSFG	3	623 (BSL2)	Ernst		
Genesys 30 Spectrometer	Thermo Scientific			ZSFG	3	623 (BSL2)	Ernst		
GeneXpert	Cepheid			ZSFG	3	623 (BSL2)	Ernst or Javid		
Incubator Microbiological	Fisher Scientific			ZSFG	3	623 (BSL2)	Ernst		
Incubator Shaker	New Brunswick		SE24GJ802125	ZSFG	3	623 (BSL2)	Ernst		
Incubator, CO2 #1	Thermo-Forma	3110	301694-21773	ZSFG	3	623 (BSL2)	DEM		
Incubator, CO2 #2	Thermo-Forma	3110	301694-21771	ZSFG	3	623 (BSL2)	DEM		
Incubator, CO2 #3	Thermo-Forma	3110	306062-28622	ZSFG	3	623 (BSL2)	DEM		
Incubator, CO2 #4	Thermo-Forma	3110	306062-28629	ZSFG	3	623 (BSL2)	DEM		
Isoblock	Benchmark	BSH6000	A090-01382	ZSFG	3	623 (BSL2)	Ernst		
Microscope (Compound)	Nikon		111776	ZSFG	3	623 (BSL2)	DEM		
Microscope (Inverted)	Olympus	CK2	806622	ZSFG	3	623 (BSL2)	DEM		
Microscope, Leica	Leica	LED3	21513	ZSFG	3	623 (BSL2)	Ernst	6343	222000071
Microscope, Leica	Leica	DMI8	513017	ZSFG	3	623 (BSL2)	Ernst	6343	202000696
Microscope, Leica camera	Leica	TL LED	513744	ZSFG	3	623 (BSL2)	Ernst	6343	222000070
Refrigerator, Deli	Sanyo	MPR-1410	50506137	ZSFG	3	623 (BSL2)	Hunt		
Rotator	Thermo Scientific			ZSFG	3	623 (BSL2)	Ernst		
Sample Prep	MP	Fast Prep	21094412	ZSFG	3	623 (BSL2)	Ernst or Javid		
Thermo Mixer C	Eppendorf			ZSFG	3	623 (BSL2)	Vasquez		
Vortex	Fisher Scientific	02215360	100601014	ZSFG	3	623 (BSL2)	DEM		
Vortex	Fisher Scientific	02215355	061213046	ZSFG	3	623 (BSL2)	DEM		
Vortex	Fisher Scientific	02215360	100601018	ZSFG	3	623 (BSL2)	DEM		
Vortex	Fisher Scientific	G-560	2-133206	ZSFG	3	623 (BSL2)	DEM		
Water Bath	Thermo Fisher	Isotemp 210	1605091133924	ZSFG	3	623 (BSL2)	Ernst		
Water Bath, Shaking	Thermo Fisher	TSSWB15	300383302	ZSFG	3	623 (BSL2)	Ernst		
Server, Computer	APPLE	Z0DB	G87153D9V2Q	ZSFG	3	Basement 002	DEM	6380	082000533
Server, Computer Bio-true	Dell	POWEREDGE 1950	B12XXC1	ZSFG	3	Basement 002	DEM	6380	082000500
Server, Rackmount	COLFAX INTERNATIONAL	H9A15-MC	E29455B507	ZSFG	3	Basement 002	DEM	6380	142001003
Server, RAID	APPLE	Z0D2	N/A	ZSFG	3	Basement 002	DEM	6380	082000532
Biosafety Cabinet, 4ft.	Baker	SG-403	73859	ZSFG	100	310	CIL		
Biosafety Cabinet, 6ft.	Baker	SG-603	73905	ZSFG	100	310	CIL		
Centrifuge	Sorvall	ST40	41317635	ZSFG	100	310	CIL	6062	122000252
Centrifuge, Benchtop	Eppendorf	5810	5810JK668037	ZSFG	100	310	CIL	6062	202000795
Centrifuge, Benchtop, Refrigerated	Beckman	Allegra 6R	ALR02D65	ZSFG	100	310	CIL		
Chromium Single Cell Controller	10X GENOMICS	GCG-SR-1	30381	ZSFG	100	310	CIL	6380	182000493
Centrifuge, Mini	VWR	Galaxy Mini Center	110526	ZSFG	100	310	CIL		
Centrifuge, Mini	Eppendorf	Centrifuge 5430	5427DP520978	ZSFG	100	310	CIL		
Centrifuge, Mini	VWR	Galaxy Mini Centrifuge	10040122	ZSFG	100	310	CIL		
Centrifuge, Mini	Fisher Scientific	Mini Centrifuge	70917406	ZSFG	100	310	CIL		
Centrifuge, Mini	Thermo Scientific	My Spin 6	HS46985	ZSFG	100	310	CIL		
Centrifuge, Mini	Fisher Scientific	Accuspin Micro 17R	4132 1437	ZSFG	100	310	CIL		
Centrifuge, Mini	Eppendorf	Centrifuge 5417C	5417 19116	ZSFG	100	310	CIL		
Centrifuge, Mini	Labnet	Labnet Centrifuge	51060089	ZSFG	100	310	CIL		
Centrifuge, Mini	Tomy Tech	Capsule TOMY HF120	31031075	ZSFG	100	310	CIL		
Centrifuge, Mini	Thermo Scientific	Legend Micro 21R Centrifuge	41684865	ZSFG	100	310	CIL		
Cryofreezer	MVE	MVE 815-150	CVLV07EI03	ZSFG	100	310	CIL		
Cryofreezer	MVE	MVE HECO 815P	CAB2117160666	ZSFG	100	310	CIL	6062	172000336
Cryofreezer	MVE	MVE TEC 3000, MVE-810HC	CVLVN05M107	ZSFG	100	310	CIL	6062	062000441
Cryofreezer	MVE	XLC810	CVLV07E109	ZSFG	100	310	CIL	6062	072000643
Flow Cytometer	BECKMAN COULTER	CYTOfLEX	BA39318	ZSFG	100	310	CIL	6062	172001033
Freezer, -20	Electrolux/Frigidaire	FFFU17M1QWH		ZSFG	100	310	CIL		
Freezer, -20 Undercounter	Revco/VWR	U2005GA14	N26L-514819-NL	ZSFG	100	310	CIL		
Freezer, -20 Undercounter	Pelco	HF-502	990100021	ZSFG	100	310	CIL		
Freezer, -80	Harris	SLT-25V-85248	0129321101100915	ZSFG	100	310	CIL		
Freezer, -80	PHC Corporation	MDF-DU502VXC-PA	19020089	ZSFG	100	310	CIL	6062	192000595
Freezer, -80	PHC Corporation	MDF-DU702VXC-PA	18120083	ZSFG	100	310	CIL	6062	192000596
Freezer, -80	PHC Corporation	MDF-DU702VXC-PA	22010020	ZSFG	100	310	CIL		
Incubator	Benchmark	H2200-HC	20120A1220025	ZSFG	100	310	CIL		
Laser, Flow Cytometer	Cytek Biosciences, Inc	NZ-24039	U0904SP	ZSFG	100	310	CIL	6062	212000743
Microscope	Zeiss	AxioVert 25	667028	ZSFG	100	310	CIL		
Plate Shaker	Thermo Scientific	4625	1882090796962	ZSFG	100	310	CIL		
Plate Washer	Bio-Tek Instruments		R5232	ZSFG	100	310	CIL		
Printer, Label	Brady	BP-PR300Plus	138873	ZSFG	100	310	CIL		
Printer, Label	Brother Industries	HL-53	U62248G01697889	ZSFG	100	310	CIL		
Printer, Label	Zebra	2T230	521163805682	ZSFG	100	310	CIL		
Scale	Mettler Toledo		1228260040	ZSFG	100	310	CIL		
Scale	Mettler Toledo		1127163842	ZSFG	100	310	CIL		
Refrigerator or Freezer-upright?	Electrolux/Frigidaire	FFRU17B2QWD	WA91303247	ZSFG	100	310	CIL		
Refrigerator, Undercounter	Fisher Scientific			ZSFG	100	310	CIL		

Refrigerator, Undercounter	Avanti	U2005GA14	A60263170041441601507	ZSFG	100	310	CIL		
Refrigerator, Undercounter	General Electric	GMR04AAMAWW		ZSFG	100	310	CIL		
Spectrophotometer	THERMO ELECTRON	NANO DROP ONE	AZY1705640	ZSFG	100	310	CIL	6062	172000441
Thermal Cycler	APPLIED BIOSYSTEMS	VERITI 96-WELL	299027605	ZSFG	100	310	CIL	6062	102000521
Vortex	Scientific Industries	Vortex Genie 2 G-560	2339184	ZSFG	100	310	CIL		
Vortex	Fisher	Vortex Genie 2 G-560	2134727	ZSFG	100	310	CIL		
Vortex	Scientific Industries	Vortex Genie 2 G-560	2357535	ZSFG	100	310	CIL		
Waterbath	Fisher Scientific	Isotemp Waterbath 10L-M	408434	ZSFG	100	310	CIL		
PCR Workstation	Air Clean System	AirClean 600 PCR Work Station	AC632-DB-1142	ZSFG	100	310	CIL		
Biosafety Cabinet, 4ft.	Baker	SG-403	73855	ZSFG	100	312	CIL		
Biosafety Cabinet, 4ft.	Baker	SG-403	73861	ZSFG	100	312	CIL		
Centrifuge, Benchtop, Refrigerated	Beckman	Allegra X-15R	ALP04H69	ZSFG	100	312	CIL		
Refrigerator, Deli	FISHER SCIENTIFIC			ZSFG	100	312	CIL		
Biosafety Cabinet, 4ft.	Baker	SG-403	73860	ZSFG	100	320	CIL		
Biosafety Cabinet, 4ft.	Baker	SG-403	73865	ZSFG	100	320	CIL		
Cell Counter	Nexcelom Bioscience LLC	Cellometer K2 5K-150	VISIONLB-004-1377	ZSFG	100	320	CIL	6062	202000350
Centrifuge, Benchtop, Refrigerated	Beckman	Allegra 6R	ALR02HB2	ZSFG	100	320	CIL		
Biosafety Cabinet, 4ft.	Baker	SG-403	73869	ZSFG	100	322	CIL		
Biosafety Cabinet, 6ft.	Baker	SG-603	73867	ZSFG	100	322	CIL		
Incubator, CO2	NEW BRUNSWICK	GALAXY CO170S	31840	ZSFG	100	322	DEM	6380	102000107
Incubator, CO2	NEW BRUNSWICK	GALAXY CO170S	31632	ZSFG	100	322	DEM	6380	102000108
Refrigerator, Undercounter	General Electric	GMR04AAMAWW		ZSFG	100	322	CIL		
Refrigerator/Freezer	Thermo	3772	0119984101110117	ZSFG	100	322	CIL		
ELECTRIC PIPETTING UNIT	INTEGRA	VIAFLO 96	18081276	Mission Bay	Byers Hall	404	Rajan	6583	182000756
Bead beater	Biospec	Mini-beadbeater-16		Mission Bay	Genentech Hall	N113	Ernst		
Benchtop Centrifuge	Hettich	Mikro 220R		Mission Bay	Genentech Hall	N113	Ernst		
Cell Counter	Life Technologies	Countess II		Mission Bay	Genentech Hall	N113	Ernst		
Centrifuge	Shandon	Cytospin4		Mission Bay	Genentech Hall	N113	Ernst		
Centrifuge	THERMO SCIENTIFIC	CYTOSPN4	CY212201806	Mission Bay	Genentech Hall	N113	Ernst	6582	182000574
Centrifuge, Benchtop	THERMO SCIENTIFIC	SORVALL LEGEND XTR		Mission Bay	Genentech Hall	N113	Ernst		
Centrifuge, Mini	Ohaus	FRONTIER5306		Mission Bay	Genentech Hall	N113	Ernst		
Drybath	Denville Scientific / Fisher	IsoBlock™ Digital Dry Bath, 115V		Mission Bay	Genentech Hall	N113	Ernst		
ELECTROPORATOR	BTX Genetronics	ECM630	6311618	Mission Bay	Genentech Hall	N113	Ernst	6582	182000571
Incubator, CO2	THERMO SCIENTIFIC	FORMA 3110		Mission Bay	Genentech Hall	N113	Ernst		
Incubator, CO2	THERMO SCIENTIFIC	FORMA 3110		Mission Bay	Genentech Hall	N113	Ernst		
Incubator, Shaking	Eppendorf New Brunswick	Excella E24		Mission Bay	Genentech Hall	N113	Ernst		
Manual Magnetic Sorter	Millenyi	OctoMacs		Mission Bay	Genentech Hall	N113	Ernst		
Microscope	NIKON	TS2	137380	Mission Bay	Genentech Hall	N113	Ernst	6582	182000900
Octo Dissociator	Millenyi	Octo Dissociator	00909	Mission Bay	Genentech Hall	N113	Ernst	6343	222000195
Refrigerator/freezer	Fisher Scientific	13-986-106A		Mission Bay	Genentech Hall	N113	Ernst		
Sonicator	Branson			Mission Bay	Genentech Hall	N113	Ernst		
Sorter	SONY	MA900	0714020	Mission Bay	Genentech Hall	N113	Ernst		
Spectrophotometer	Fisher Scientific	Gensys 30		Mission Bay	Genentech Hall	N113	Ernst		
Vortexer	Ohaus	Standard analog vortex mixer		Mission Bay	Genentech Hall	N113	Ernst		
Cryostat Cryovac	Microm	HM505N		Mission Bay	Genentech Hall	N189	Ernst		
INHALATION EXPOSURE SYSTEM	GLAS-COL	Inhalation Exposure System	N	Mission Bay	Genentech Hall	N189	Ernst	6582	182000548
Sorter	SONY	MA900	0714020	Mission Bay	Genentech Hall	N189	Ernst	6380	192000149
Biosafety Cabinet, 6ft.	Baker	STERILGARD® e3	128009	Mission Bay	Genentech Hall	S401K	Ernst	6582	192000549
Cell Counter	Life Technologies	Countess II		Mission Bay	Genentech Hall	S401K	Ernst		
Centrifuge	THERMO SCIENTIFIC	SORVALL LEGEND XTR	42395459	Mission Bay	Genentech Hall	S401K	Ernst	6582	182000572
Incubator, CO2	THERMO SCIENTIFIC	FORMA 3110	300220929	Mission Bay	Genentech Hall	S401K	Ernst	6582	182000981
Incubator, CO2	THERMO SCIENTIFIC	FORMA 3110	300223982	Mission Bay	Genentech Hall	S401K	Ernst	6582	182000980
Manual Magnetic Sorter	Millenyi	OctoMacs		Mission Bay	Genentech Hall	S401K	Ernst		
Vortexer	Ohaus	Standard analog vortex mixer		Mission Bay	Genentech Hall	S401K	Ernst		
Water bath, Shaking	FISHER SCIENTIFIC	Precision SWB 10		Mission Bay	Genentech Hall	S401K	Ernst		
Biosafety Cabinet, 6ft.	Baker	SG-603AHE	102568	Uganda	Uganda	Uganda	Feeney	6342	102000943
Biosafety Cabinet, 6ft.	Baker	SG-603AHE	102573	Uganda	Uganda	Uganda	Feeney	6342	102001052
Cell Counter	MILLIPORE	MUSE	7200121376	Uganda	Uganda	Uganda	Feeney	6342	152000130
Centrifuge	Hermle Labnet	Z446	79150005	Uganda	Uganda	Uganda	Feeney	6342	152000273
CRYO TANK	LABREPCO	CYROSYSTEM 2000/LAB 50		Uganda	Uganda	Uganda	Feeney	6342	182000542
Cryofreezer	THERMO SCIENTIFIC	CY509109 CRYO 6 PLUS	B20LJL825	Uganda	Uganda	Uganda	Feeney	6342	102000944
FLOW CYTOMETER	ACCURI CYTOMETERS INC.	C6	3092	Uganda	Uganda	Uganda	Feeney	6342	102001113
Freezer, -80	REVCO	ULTIMA PLUS 314415	0129296701100908	Uganda	Uganda	Uganda	Feeney	6342	102000923
Generator, Diesel	CATERPILLAR INC.	GEP44-C	U241359U	Uganda	Uganda	Uganda	Feeney	6342	102000942
Ice Maker	Scotsman Ice Machine	PO282470	10101320010718	Uganda	Uganda	Uganda	Feeney	6342	102000956

Back-Up Plans if the Elevator is Inoperable and we need Liquid Nitrogen

Liquid Nitrogen Transport Up the Stairs

Clean Harbors

Following proposed procedure:

- A total of 7 Clean Harbors personnel will be needed for the job.
- The lab will fill the dewars with liquid nitrogen on the 3rd floor.
- Clean Harbors will carry the dewars up the stairs from the 3rd floor to the upper floors.
- Since you previously suggested you may need two people to carry one dewar up the stairs at a time, they are proposing having 3 teams of 2 to carry the dewars and one additional technician to pour the liquid nitrogen into the freezer. Each dewar weighs approximately 20-30 pounds.
- The transport teams will return an empty dewar back to the fill point and pick up a full dewar that will already be filled by the lab to carry back up the stairs.
- The Clean Harbors person stationed at the cryofreezers for pouring the liquid nitrogen into the freezer will hopefully be continuously pouring liquid nitrogen into the freezer as the transport teams bring more liquid nitrogen up.
- Before a Clean Harbors technician pours liquid nitrogen into the cryofreezer, someone from the lab will open the cryofreezer port, adjust the turntable and remove a rack of samples so the liquid nitrogen can be safely poured into the freezer.
- The lab can provide cryogloves if needed for the Clean Harbors person pouring liquid nitrogen. This person should probably be wearing long sleeves (coveralls), face shield, and cryogloves (the cryogloves can be provided by the lab if needed).
- The lab estimates around 80 total trips will be required to fill their 15-16 cryofreezers.
- See attached quote

Brooks Scientific

- **Willingness.** Brooks is willing to assist UCSF with emergency biospecimen storage by sending a truck with some combination of LN2 and -80C ULT freezers to UCSF to temporarily store biospecimens that are at risk of loss.
- **Capabilities.** Brooks has trucks equipped for cold storage in Torrance, CA (Los Angeles County). These trucks can house up to 6 large vapor-phase liquid nitrogen freezers, or 7 -80C ULT freezers, or some combination of both types of freezer. Brooks' trucks have diesel generator back up power. Brooks' trucks can remain on site until labs restore their cold storage capabilities (this is the service they performed for labs on the East Coast in response to hurricane Sandy).
- **Reaction time.** Under normal circumstances Brooks believes that it can have a truck arrive at UCSF within 24 to 36 hours of being notified.



Clean Harbors Environmental Services, Inc.
4101 Industrial Way
Benicia, CA 94510
www.cleanharbors.com

March 30, 2021

Attn: Mr. Tim Orozco
University of California-San Francisco
50 Medical Center Way
EHS
San Francisco, CA 94143

Quote #3716331, UCSF/San Francisco General Hospital Facility, San Francisco, CA

Dear Mr. Orozco:

Thank you for considering Clean Harbors Environmental Services, Inc. for your environmental service needs. We provide a broad range of environmental services including hazardous and non-hazardous waste transportation and disposal, laboratory chemical packing, emergency response, field services and industrial maintenance. We are pleased to provide this proposal based on the scope of work outlined below.

We offer our clients a broad spectrum of environmental services and the ability to dispose of hazardous material at or through a Clean Harbors' owned and operated facility. In addition to managing your waste streams, a Clean Harbors' professional can assist you with:

- Waste Transportation & Disposal
- Laboratory Chemical Packing
- Field Services
- 24-Hour Environmental Emergency Response
- Industrial Services
- InSite Services

I look forward to servicing your environmental needs. When you are ready to place an order, please contact our Customer Service group at 800.444.4244. If you have any questions or need further assistance, you may reach me at the number below.

Sincerely,

Brandon L Dennison
Field Service Specialist
Phone: 707.747.6699
dennison.brandon@cleanharbors.com



QUOTE CONDITIONS

The proposal is based on the following assumptions and site conditions. Any work which falls outside of the assumptions will constitute work beyond the intended scope and be completed upon mutually satisfactory terms.

Clean Harbors is pleased to provide the following Estimate associated with the movement of Dewars filled with Nitrogen to the upper floor labs as requested.

- A total of 7 Clean Harbors personnel will be needed for the job.
- The lab will fill the dewars with liquid nitrogen on the 3rd floor.
- Clean Harbors will carry the dewars up the stairs from the 3rd floor to the upper floors.
- Since you previously suggested you may need two people to carry one dewar up the stairs at a time, they are proposing having 3 teams of 2 to carry the dewars and one additional technician to pour the liquid nitrogen into the freezer. Each dewar weighs approximately 20-30 pounds.
- The transport teams will return an empty dewar back to the fill point and pick up a full dewar that will already be filled by the lab to carry back up the stairs.
- The Clean Harbors person stationed at the cryofreezers for pouring the liquid nitrogen into the freezer will hopefully be continuously pouring liquid nitrogen into the freezer as the transport teams bring more liquid nitrogen up.
- Before a Clean Harbors technician pours liquid nitrogen into the cryofreezer, someone from the lab will open the cryofreezer port, adjust the turntable and remove a rack of samples so the liquid nitrogen can be safely poured into the freezer.
- The lab can provide cryogloves if needed for the Clean Harbors person pouring liquid nitrogen. This person should probably be wearing long sleeves (coveralls), face shield, and cryogloves (the cryogloves can be provided by the lab if needed).
- The lab estimates around 80 total trips will be required to fill their 15-16 cryofreezers.

Cryogloves will be provided onsite if needed for the Clean Harbors person pouring liquid nitrogen.

Quoted amount is an Estimate only and will be billed actual Labor, Equipment and Material utilized to complete this project portal to portal.



LIQUID NITROGEN TRANSPORT AT ZSFG

Amount	Description	Qty/UOM	Days	Unit Price	Extended Total
6	Field Technician	8 hour	1	\$55.83	\$2,679.84
6	Field Technician Overtime	1 hour	1	\$83.75	\$502.50
1	Supervisor	8 hour	1	\$93.41	\$747.28
1	Supervisor, Overtime	1 hour	1	\$140.12	\$140.12
3	Pickup/Van/Car/Crew Cab	9 hour	1	\$18.25	\$492.75
7	Gloves - Leather	1 pair	n/a	\$8.59	\$60.13
				Total	\$4,622.62

TOTAL ESTIMATE	\$4,622.62
Estimated CARRAA Fee	\$92.45
Estimated total, including Fees	\$4,715.07

GENERAL CONDITIONS

- Except where superseded by an existing services agreement the following terms and conditions apply to this quoted business.
- The customer hereby acknowledges that the estimated cost is based upon a preliminary appraisal by a Clean Harbors Representative, and that the amount invoiced by Clean Harbors will be based upon labor and materials actually expended in performing the scope of work. Any changes in the scope will be billed on a time and materials basis.
- Clean Harbors guarantees to hold these prices firm for 60 days.
- Terms: Net 30 Days
- For work to begin we ask that you acknowledge the quotation with a signature and provide the appropriate purchase order number. Where modifications to the scope of services become necessary, Clean Harbors will notify the customer promptly and obtain customer authorization for such modifications and a revised contract price will be established in order to finish the project.
- This proposal is contingent on the customer providing full and complete access to the site. Customer represents and warrants to Clean Harbors that the customer has the legal right, title and interest necessary to provide access to the site. In addition, customer warrants that it has supplied Clean Harbors complete and accurate information regarding the site, subsurface conditions, utility locations, site ownership, hazardous materials or wastes and other substances or hazards likely to be present and any other reports, documentation or information concerning the scope of work.
- Interest will be charged at 1.5% per month or the maximum allowed by law for all past due amounts.



GENERAL CONDITIONS

- Disposal will be managed within the Clean Harbors Network of Approved Facilities.
- Local, state and federal fees/taxes applying to the generating location/receiving facilities are not included in disposal pricing and will be added to each invoice as applicable.
- Materials subject to additional charges if they do not conform to the listed specifications.
- Electronically submitted profiles will be approved at no charge. Paper profiles will be charged at \$75.00 each.
- Clean Harbors supports many invoice delivery options (E-mail, Electronic Invoicing, EDI, Etc.). Pricing is based on Clean Harbors' standard invoice delivery method of E-mail. If another delivery method is required there could be an additional service fee per invoice. Any alternate delivery methods must be reviewed and approved by Clean Harbors prior to acceptance and implementation.
- A variable Recovery Fee (that fluctuates with the DOE national average diesel price), currently at 12.5%, is included in our quoted pricing. For more information regarding our recovery fee calculation please go to: www.cleanharbors.com/contact-us/customer-resources.
- Pickups that require same day or next day service may be subject to additional charges.
- Pickups cancelled within 72 hours of scheduling will be subject to cancellation charges.
- Transportation charges to the final disposal facility will be charged in addition to local transportation to our truck to truck hub/local facility and will vary with logistics and routing.
- Time over eight (8) hours in the normal workday and all day Saturday is considered overtime and will be billed at 1.5 times the applicable straight time rate for all billable personnel unless otherwise quoted. Sunday and Holidays are considered premium time and will be billed at 2.0 times the applicable straight time rate for all billable personnel unless otherwise quoted.
- This proposal is submitted contingent upon the right to negotiate mutually acceptable contract terms and conditions, which are reflective of the work contemplated, and an equitable distribution of the risks involved therein. In the event that such agreement cannot be reached, Clean Harbors reserves the right to decline to enter into such an agreement without prejudice or penalty.
- In the event that legal or other action is required to collect unpaid invoice balances, Customer agrees to pay all costs of collection, including reasonable attorneys' fees, and agrees to the jurisdiction of the Commonwealth of Massachusetts.
- The USEPA implemented the E-manifest system in June 2018 and charges the receiving TSDF a fee per manifest that is subject to change at USEPA's discretion. Clean Harbors currently charges \$20 per manifest to cover this cost on every invoice. This charge is subject to change if USEPA applies increased charges in the future.
- CARRAA: The additional excise and sales tax added to the price of diesel fuel at the pump under the California Road Repair and Accountability Act (CARRAA) of 2017 has increased the cost of providing waste management services in the State of California. To off-set this extra cost, Clean Harbors is implementing a 2.00% CARRAA Fee on every invoice for a California generator.
- Unless specifically noted, these rates are not valid where Prevailing Wages and / or certified payroll apply. Any Prevailing Wage rates will be quoted on a case-by-case basis.
- Customer will be responsible for providing water on site. If not provided, additional charges will apply.



March 30, 2021
Clean Harbors Quote #3716331

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ACKNOWLEDGEMENT

Your signature below indicates your acceptance of the pricing and terms detailed in the quote above.

Thank you for the opportunity to be of service.

Signature

PO#

Date

Print Name

Quote # 3716331