STANDARD OPERATING PROCEDURE					
A Ragon Institute	Ragon Institute Tissue Culture Training		SOP #	TC_SOP_001	
	Originated by:	Alicja Trocha	Date:	June 2017	
	Laboratory:	Walker Lab	Pages:	1 of 3	
	Approved by:	Alicja Trocha			

I. PURPOSE:

The purpose of this procedure is to outline the procedure to be carried out uniform training for all new Ragon employees.

II. SAFETY:

This protocol needs to be carried out in the BSL2 laboratory following all BL2+ regulations.

III. **REQUIREMENTS:** Qualified trainer

IV. PROCEDURE:

Each new Person hired who will be working in one of our Tissue Culture rooms must go through training by an already trained, proficient lab member (technician or postdoc) and approved by Floor Lab Manager. Collaboration Scientist will work under the supervisor of the lab they are associated with and all items in Bold must be done as well, the rest is under the discretion of PI.

Name:	
PI Name:	
Date of Hire:	
Badge ID#	

Each new person will be introduced to the Ragon Tissue Culture (TC) rooms by watching an already trained and proficient person working. Explanations will include sterile technique, how to clean the laminar flow hoods, how to change buckets with D-125, how and where to dispose of all biohazard waste and a proper introduction to autoclaving and disposing of autoclaved waste.

List of procedures that must be performed to a level of proficiency under supervision before you will be able to perform these procedures independently:

- 1. Verbal introduction by PI/Fellow/PostDoc or training person.
- 2. General room stocking and cleaning /media preparation/ disposal of discarded waste/location of waste collection on floor.
- 3. Autoclaving and proper disposal of waste /proper dress code doing that/learning usage of the autoclave
- 4. Blood separation for those who will be handling samples (/this process must be done several times to give student enough time to learn that. Preliminary training can be done on the bench outside the TC with the FicoII and PBS
- 5. Long them Culture cultivation for 2-3 weeks, counting them, expanding them freezing and thawing to master sterile technique.
- 6. Freezing cells
- 7. Thawing cells
- 8. Emergency response what to do in case of exposure or spill.

Each procedure must be sign off by Floor manager – the procedures in **bold must be done by everybody asking for access** to TC and rest depending on experience and PI input (must be sign off by PI if not needed) Each new RI Employee must go through all points (BCL might be substituted with another procedure verifying mastering sterile techniques)

#2 Stocking, cleaning.

	Date	Signature of tech receiving training	Name of proficient trainer	Signature of proficient trainer
Cleaning of hoods				
Changing of blue pads				
D125 change / Buckets				
Routine stocking				
Final sign off by Lab				
Manager				

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#3 Autoclaving

	Date	Signature of tech receiving training	Name of proficient trainer	Signature of proficient trainer
Proper cycle selection	+		tranici	
	<u> </u>			
Disposal of liquid waste				
Disposal of solid waste				
Final sign off by Lab Manager				
Must observe protocol at le Must perform protocol at le	east once. east twice v east twice v	applicable (PI /postdoc sign off with HIV negative blood while b with HIV positive blood while b by Lab Manager.	eing observed.	
•	Date	Signature of tech receiving training	Name of proficient trainer	Signature of proficient trainer
Observe		¥		
Protocol #1 with HIV negative blood				
Protocol #2 with HIV negative blood				
Protocol #1 with HIV positive blood				
Final protocol with sign off by Lab Manager				
New Employee will be give	en 4-5 BCI re maintena	ance. Each line must be expande ter to check for viability.	ed at least once from a T-25	This longer term culturing will validate sterile 5 to a T-75, carried to a second T-75. Two lines
	Date	Signature of tech receiving training	Name of proficient trainer	Signature of proficient trainer
Expanded to 1st T-75				
Carried to 2 nd T-75				
#6. Freezing	ast once			
		on BCL lines while being observ	ed. Must perform protocol	at least twice on HIV negative PBMC while being
		on BCL lines while being observ Signature of tech receiving training	ed. Must perform protocol Name of proficient trainer	at least twice on HIV negative PBMC while being Signature of proficient trainer
Must perform protocol at le observed.	east twice of	Signature of tech receiving	Name of proficient	
Must perform protocol at le observed.	east twice of	Signature of tech receiving	Name of proficient	
Must perform protocol at le observed. Deserve freezing freeze BCL	east twice of	Signature of tech receiving	Name of proficient	
Must perform protocol at le	east twice of	Signature of tech receiving	Name of proficient	

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#7 Thawing

Must observe protocol at least once. Must perform protocol twice on BCL (frozen on 2 separate occasions) Must perform protocol at least twice on HIV negative PBMC while being observed.

	Date	Signature of tech receiving training	Name of proficient trainer	Signature of proficient trainer
Observe				
Protocol #1 with BCL				
Protocol #2 with BCL				
Freezer HIV- PBMC				
Freezer HIV+ PBMC				
Final protocol with sign off by Lab Manager				

#8 EMERGENCY PROCEDURE FOR ACCIDENTAL EXPOSURE TO INFECTIOUS AGENTS - refer to SOP

REFERENCES/ ADDITIONS/ NOTES V.