

Green Labs Spring Clean Up!

Beacon Lab - BI 252

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Before!



After!



Freezer manifesto 2024

Let it be resolved that we should try to keep our cold storage more organized.

In December 2023 we did a big 4C clean out and disposed of expired media reagents.

In January we did -70C defrost, service of the coolant system, filters and battery. We switched to energy saver setting!

In February 2024 we finally did a -20C defrost and organization, and a -70C organization

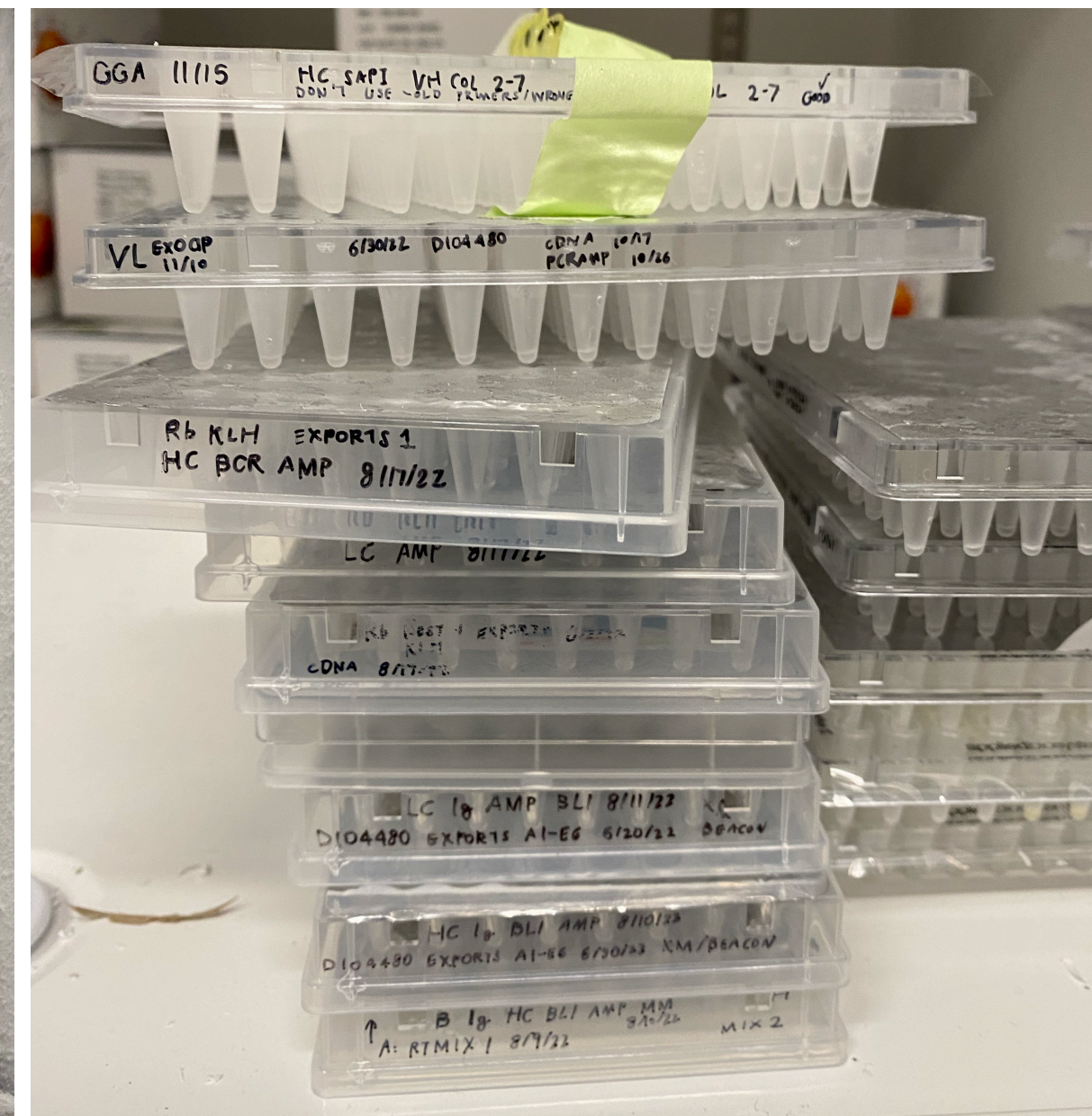
Rack layouts are described here.

We will try to keep this up going forward!

Some guiding principles to make this manageable/maintainable

1. break down media kits and cloning kits into 81-position boxes of components so that we can see what we have. Post lists of as-sold components so we can track what we need to pull per protocol.
2. use kit components in lot and expiration date order!
3. use small remainders of material before starting new tubes, but if freeze-thawed more than 2x, keep moving toward the next expiration date.
4. write clear labels on plates! dates, chip IDs, sample details are helpful, as are standardized names for common cloning intermediate sample types.
5. use short deep well plates for storage when possible as they save space!
6. if labeling a DWP on tape, also be sure to label on the plastic - tape can fall off in the freezer!
7. we can link benchling entries to inventory entries, and that's really beautiful :)

Before!



After!

	A	B	C	D
1	-70C Beacon freezer inventory			
2				
3				
4	<u>Rack</u>	<u>Compartment</u>	<u>Description</u>	
5	Short Rack 5		prepared export plates (without cells)	
6				
7				
8	-70 plate rack 1		occupied export plates (with cells)	
9	-70 plate rack 2		cDNA	
10	-70 plate rack 3		glycerol stocks and HT mini prep plates	
11				
12				
13	Box rack 1		reagents	
14	Box rack 2		PBMCs	
15				

-20C Inventory updated 3/21/24

Short Racks

Rack	Compartment	Description
Short Rack 1	A	Rb Mosaic cloning
	B	Sc003 cloning
	C	early cloning intermediates
	D	
	E	
Short Rack 2	A	Rb mi3 Fall 2023
	B	mRNA pre immun. mosaic B1 (SURF) Summer 2023
	C	MERS SARS VH Crosnier Amp 1
	D	Rb Strain specific from Mosaic Winter 2023
	E	SHC014 4/2023
Short Rack 3	A	Overflow SHC014 4/2023 & Rb Mosaic strain specific from 4/2023
	B	SARS2B strain specific 4/2023
	C	Rf1, Pang17, RmyN02 cloning intermediates 4/2023
	D	MERS Fresh vs Frozen Beacon: 10/2022 Cloning: 3/2023
	E	

These are linked to electronic lab notebook (benchling) entries! So nice!

Box Racks

Rack	Row	Compartment C	Compartment B	Compartment A
Box Rack 1	1	Monocistronic Hu HC/LC kappa (mCisK), GGA SapI vector construction, G	BLI RT Reagents Active	Beacon Reagents -20C
	2	mIg HC isotype sewap C118 mCisK final clones + DNA for xfection 1/3/24	RT Reagents & Export Reagents	Beacon Reagents -20C Box 2
	3	Current GGA Vectors, Seq verified 2/7/23, Delta VH/VL GGA Vectors, cis e	2x platinum II HS MM aliquots	BLI cDNA Synthesis Reagents
	4	BLI RT Reagents reserve stock	Media Reagents for Ms Plasma B	PCR Mastermix Stocks
Box Rack 2	1	Ange: RatG13 F1 export cand. MPs & SHC014 Strain Sp Row A/B G block	mRNA Pre-immun. Mosaic 8b B1, Seq verified mAb plasmids	Beacon Priimers @ 10 uM dilutions
	2	MERS SARS final mAbs & mCisK GGA Vector & LCK SapI ES plasmids	Human "NHP" Memory B Cell Activation Media & BLI compo	Primers 318-361 & G blocks 35-42
	3	Gly Stock Picks 9/22/23 Original mRNA + Mosaic B1 Exports	Beacon Primers Box 1	Primers 362-
	4	Rb Mosaic Plate 2 exports, mi3 candidate MPs from G Stocks 5/11/23	Beacon primers 183 - 274 10 uM dilutions	
Box Rack 3	1			DNA Cleanup
	2			
	3			
	4			
Box Rack 4	1			
	2			
	3			
	4			

Miscellaneous

Shelf	Item
	OptoSeq BCR kit
	Two OptoSeq BCR kits V2
	Four Already H.I. FBS
1	Two boxes Qiagen HotStarTaq DNA Polymerase (1000 units)
2	Media Additive A1 (Serum) Box from Ms Opto plasma B Discovery Sample kit
	Dregs of Media Additive A1
	Goldbio Carbenicillin (Disodium)
	Two Invitrogen Normal Mouse Serum controls
	Pre-chilled PCR rack
	Nalgene labtop cooler jr