

October 26-27th, 2021

HEU: Ex-vivo $\gamma\delta$ CBMC panels #7/ILT novo 1

| Specimen | Status | Location | Conc | Date | Tasks | Volume | Ly | Ly+Mon | Total | 1E+6 | 1.5E+6 |
|----------|--------|----------|------|------|-------|--------|----|--------|-------|------|--------|
| Inf070 | | | | | | | | | | | |
| Inf161 | | | | | | 2.5 | | | | | |
| Inf023 | | | | | | | | | | | |
| Ny062 | | | | | | | | | | | |
| | | | | | | | | | | | |

PMA/Colgi experiment

2M (Info70 \rightarrow 398 μ l + 302 + 300
 Inf161 \rightarrow 398 μ l + 302
 Inf23 \rightarrow 398 μ l + 302
 only 1.5m PMA 670 + 30 + 300 (not 300 μ l PMA either ~ 290)
 ~1 ctrl 500 + 200

PMA ctrl
 basic stim stim
 ○ ○ ○

basic stim
 ○ ○ ○

basic stim
 ○ ○ ○ ○ ○

basic stim
 ○ ○ ○ ○ ○

basic 6 + 3 = 9
 stim 16

PMA wells in @ 3:09 pm
 PMA controls in @ 3:57 pm

PMA controls Abquot # 300 μ l

Ab mix done around ~ 2:40 pm

15
 $\times 8$
 120mls
 15
 6 μ l \rightarrow 15mls

Basic/AlVol
 L/D @ 5:07 \rightarrow 5:22
 Tetramers @ 7:51 pm \rightarrow 8:31 pm
 (Sels spin down @ 8:25 pm)

PMA wells \rightarrow 9:09
 \rightarrow 9:57 respectively

15 specimens
 $\times 5$
 75 μ l
 8 \rightarrow 72
 15 $\times 2$
 30 μ l
 11 \rightarrow 36

@ 9:03 Basic + AlVol 37 $^{\circ}$
 \rightarrow 9:33 pm 3 AlVol tubes got 1.3x 37 $^{\circ}$ (including + ctrl)
 All basic got normal (one got bit both leftovers, so do cross?)
 3 remaining allvol got 1x 2 little 1x
 1 allvol discarded due to ab.

37 $^{\circ}$ at of me @ 9:33

22:34 \rightarrow 22:34 spin down
 Rbc type allvol 22:37

9:31 Sels \rightarrow 9:35
 PMA \rightarrow 9:50
 37 $^{\circ}$ wash @ 9:39

stim NTR sc in @ 22:47 + 15 \rightarrow
 AlVol 8x Perm @ 22:52 \rightarrow 11:02 \rightarrow 11:12

4 $^{\circ}$ C allvol/basic @ 9:56 pm
 \rightarrow 26 (34)

PMA 37 $^{\circ}$ @ 11:10 \rightarrow 11:40 pm
 last penwash spin allvol @ 23:14 pm
 Allvol/basic done @ 23:25

PMA tetramers @ 10:16 \rightarrow 56 pm
 (2 μ l instead of 2.5 μ l)
 hcdil

Final!! unstained
 + 2 sep
 Penwash
 after FBS after
 FixPerm

Sels basics done @ 22:22

PMA 4 $^{\circ}$ C @ 23:54 \rightarrow 00:24

3 wells
(CD8/40/undrained)

CD19 cl/basic new cl/bars
CD45RA old b/a/v pms → new and old

if's...
just required
for all no/basic

using DR-1001 with 1
as instrument settings
didn't make any FSC/SSC much

605/650 HLA-DR S6
711 CER7
PE NKG2D
PE/No P01
APC/IL4

Name: *Brasche*
DTR W-27-71 *CD8*
13x 37°C 1x 4°C 20x S5

CD56 wcd (IF7041)

| Alliquot cells | |
|-------------------------------|---|
| PMA-Ionomycin stimulation | |
| PBS 2ml | 1400rpm, 6min |
| Live/Dead @RT 15min | |
| PBS+FB5 2ml | 1400rpm, 6min |
| Tetramine @RT 40min | |
| PBS+FB5 2ml | 1400rpm, 6min |
| Surface | <div> <div>CD14</div> <div>CD13</div> <div>CD161</div> <div>CD38</div> </div> <div> <div>CD66</div> <div>CD26</div> <div>CD7</div> </div> |
| PBS-FBS 2ml | 1400rpm, 6min |
| Surface mix @ 40C 30min | |
| Lysing solution 300-500ul | |
| PBS-FBS 2ml | 1400 rpm, 6min |
| Cytofix/pern @ 40C 20min | |
| wash twice Perm/wash 1 ml | 1500rpm, 6min |
| Inter Staining @ RT for 40min | |
| wash once w/ R1 | 1500rpm, 6min |
| resuspend 100 ul PFA-PBS | |

All Vol sample experiments

* CBMC takes all library controls (old ones) except new exp BUEOS &
* run mix on CD56 control *odds - switching to your all stored might help.*
VD2 & WHR1 issues. (the non-specific junk.)

basic - adj Fsc 50 SSC 200.

→ for L/P, gated on the dead adjacent pop (not the lymph)

→ for CD8, @ >3pl, clean peak (w/ 25,000 events)

↓
moved detector
from R25 to R26
What effect this has

w/dl CD3

CD45RA CD161 CD26

Unmixed w/ CD8 3pl control, then appended on the rest of ~~CD~~ Inf070

→ on average
a little better

don't use CD8 2021 b

→ noticeably vs CD45RA comp off

@ 5:45 pm start

* record upon rate stabilizing *

DTIC-²CBMC-CD62L-V1

 x_2

assessments

257.

25
x 2
15.0 million cells

55

Apr 14

You can copy past news 6

7 20,000 eur's

Washburn

Activated reference controls (20,000 events)

w/ each append FSC/SSC may shift.

- BVV395 CD62L is struggling - (us on monocytes)
- ↑ 50,000 events - visible staining for CD8 stopped early
- CD69 is a waterfall (grab highest)
- CCR4 low hugging axis.

should I?

Not adjust the preselect unless needed

$10^{3\frac{1}{2}}$ $10^{4\frac{1}{2}}$

Where to place CD62L + CCR4?

10.61 was obvious

$10^{4\frac{1}{2}}$ → $10^{5\frac{1}{2}}$

give just a little red stripe for highly as

(does position of the peak matter?)

are titration questions

CxCR3 similar boat.

CD127 (IL-7R α) expression is M_{10} ← focusing on.

We want the low %, high expressors (think NKT, etc)

Cytokines? IFN γ ✓ no issue

how all this is a tetramer floor vs CD3 floor?

remember ≠ what's the individual cell, just all & brightest, however

PeCy5 & PerCPy5 swapped in Avocado order

CD25 rare (us CD26 similar to others $10^{4\frac{1}{2}}$ → 10^5 (ghost red))

TNF α ... ✓ no issue (in this state)

IL-4... [issue] append more events...

getting enough events challenging. I have $10^{4\frac{1}{2}}$ to 10^5 , just a bit read.

Zombie NIR was placeable on $CD3^{Lym}$ pop ✓ not an issue.

CD62L got Plugged not crash +

CCR4 as well

And ~~UD2~~

And CCR3

gate $10^{3\frac{1}{2}}$ → $10^{4\frac{1}{2}}$

And CD15 10^4

And ~~IL-4~~

another footpad. ← not happy with, replace

not happy about it but okay

↑ ab amount

expanded decade at 10^4 - 10^5

still not enough

let me scan $10^{3\frac{1}{2}}$

reUD2 not happy with it, replace next go.

8:06 AM no library!

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SCs @ 00:08 for 20 min @ respective temps
@ 00:10 for fixperm intracellular SCs

[00:24] next step for ~~the~~ PMA samples

RBC lysis @ 27

@ 00:36 pm \rightarrow everything into centrifuge

fixperm up next

@ 00:51 \rightarrow 1:01 \rightarrow 1:11

1st spin @ 1:16 am
2nd spin @ 1:30 am

2nd wash

\rightarrow intracellular stains @ 00:57

\rightarrow 1:37 am

SCs done @ 01:57

Intrac @ 1:43 pm

+ 40

2:23

Last QC: Oct 25, 2021

UV3

7.64% rev (spread)

SOM "restart your program pop-ups" ... this is bull shit!

\rightarrow turning on your cytometer might help. 4:10 pm

Went let you on an enclosed worksheet proceed.

all active mixing
and both ordered for AF...

00:00

FSC 60^{off} 220

unstained



for second spin
medium

Using my good VD2 significant improvement

and my CD39 APC

works okay

Exporting cytokine file before I mess w/ controls (duplicate version kept)

ctrl does seem cleaner on its own ^{old} comp

62L

CD21

56 ✓

(copy & paste/duplicate & edit are soo useful)

need to set med 18 11 +

PD1 ✓ & append

CCR1 looks active

NNG20

? AF488 → Fdc?

HLA-D R @ 10:17 pm... yuuupees, bleb on CD3 vs damp.