

March 27th, 2023

<pl>

1:100

2023_ILT_07

Specimen	Status	Location	Conc	Date	Tasks	Volume	Ly	Ly+Mon	Total	3E+6	.3E+6
Info550 a-3	HU ⁺ RVQ6	(4)	<10.67			1.5	5.98	9.75	8.97		
a-4	RVQ7	(7)	<9.07			1.5	6.72	10.70	10.08		
Inf287-7 a-3	HEU-107 SLYY	(3)	<17.07			1.5	3.59	6.90	5.38		
a-4	SLYZ	(6)	<17.57			1.5	3.32	6.67	4.98		
Info52 a-2	HEU-107 RVJB	(5)	<9.47			3.0	5.56	8.27	16.7		
ND050	Adult Norm	(1)	15E6 <167	1/13/23		1.5	6.46	9.17	9.69		
ND006	Adult scs	(2)	15E6 <10.77	1/20/23		1.5	9.59	12.2	14.39		

7:29 am thaw start

7:37 am cord 1st set

DNA @ 7:55 am adults

8:18 am fixed DNA @

8:35 am count stain

9:00 am conc done

9:20 calcs done

9:40 am aliquots, done 10:00

All specimens/RBCs today (10.5) (12)

1,000,000% X = 25

0000	Info55	19.05% 3	0.5 0.5	3M
15 25 25 0	Inf287	10.36% 3	0 0	
0000	Info52	16.7% 3	0 0	
25 0 0 0	ND050	9.69% 1.5	0 0	
25 0 0 0	ND006	14.39% 1.5		

Incubation @ 10:39 am → 7:43:39 pm

Sample spin @ 4:49 pm

L/D @ 5:06 pm

5:46 pm Hot Samples → 6:16 pm

5:55 pm scs aliquoted & spinous
in 1ml PBS

SC hot @ 6:08 pm → 48

6:44 pm tetramers → 6:24-21

Va? @ 6:57 →

Sc's cold @ 7:08 pm → 38 pm

Samples FBS post hot spin @ 7:31 pm

Samples cold @ 7:52 pm → 8:22 pm

FixPerm scs @ 8:00 pm → 8:10 → 8:20 pm

Last FBS wash + scs 1st perm wash @ 8:33 →

10 chl x 2	4 PMA x 2	4 chl x 2	4 PMA x 2
22 pl	8 pl	1.32 pl	1.32 pl
1 chl x 2	4 chl x 2	1 PMA x 2	1 PMA x 2
1 pl	6.64 pl	1.66 pl	1.66 pl

1) BD Golgi stop Protein Transport Inhibitor
(containing Monensin)

Sold as (554724) 7ml

2) Golgi Plug Brefeldin A
cat # ???

Samples Fix Perm
@ 8:54 → 9:04 → 9:14

9:14 scs intra → 9:44

Samples 1st perm wash @ 9:17 pm
2nd perm wash @ 9:23 pm

Intra-c samples 9:44 → 10:24 pm

Set done @ 10:10 pm ✓

Final spn @ 10:31 pm

Done @ 10:43 pm

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Acquisition @ 9:35 am

~30 μ l/min

Info55 cord ctrl

ccr4 staining \neq great

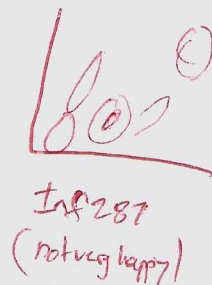
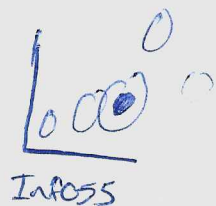
CXCR3 disaster

resume @ 10:21

- CD161 distinct different in cord
- CD56 on cord also distinctive
- CD16 way brighter on cord

NK620?

11:23 \leftarrow noise tech repair



how do you count systematically?
~ experiment/technical variance

Unmarg 03-28-23 07:48 pm.

Moved main CXCR3 sample, no SC

Added ND050 untreated to samples

Getting to unmix state before separating the files for Abus Tel.

AF extract + CD161/CD56/CD46 as cord scs. + CD3 AF647

CD161 blatantly easy gate cord

CD56 less easy but not hard

CD161 (lips)

... drumroll ladies & gents ...

Similarity Matrix 14.05

return to adult PBMCs ...

Sample	Total	Volume	Concentration	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M
INF055	19.05	3	6.35	0.47	0.43	0.39	0.35	0.31	0.28	0.24	0.20	0.16	0.12	0.08
INF287	10.36	3	3.45	0.87	0.80	0.72	0.65	0.58	0.51	0.43	0.36	0.29	0.22	0.14
INF052	16.7	3	5.57	0.54	0.49	0.45	0.40	0.36	0.31	0.27	0.22	0.18	0.13	0.09
ND050	9.69	1.5	6.46	0.46	0.43	0.39	0.35	0.31	0.27	0.23	0.19	0.15	0.12	0.08
ND006	14.39	1.5	9.59	0.31	0.29	0.26	0.23	0.21	0.18	0.16	0.13	0.10	0.08	0.05

R10	Sample													
	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M			
INF055	0.53	0.483	0.439	0.40	0.351	0.307	0.26	0.219	0.176	0.13	0.088	0.08	0.08	0.08
INF287	0.13	0.120	0.109	0.10	0.087	0.076	0.07	0.054	0.043	0.03	0.022	0.02	0.02	0.02
INF052	0.46	0.422	0.384	0.35	0.307	0.269	0.23	0.191	0.153	0.12	0.077	0.07	0.07	0.07
ND050	0.54	0.490	0.446	0.40	0.356	0.312	0.27	0.223	0.178	0.13	0.090	0.09	0.09	0.09
ND006	0.69	0.629	0.572	0.52	0.458	0.401	0.34	0.286	0.229	0.17	0.115	0.11	0.11	0.11

PMA	Sample													
	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M			
INF055	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33	0.33	0.33	0.33
INF287	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33	0.33	0.33	0.33
INF052	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33	0.33	0.33	0.33
ND050	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33	0.33	0.33	0.33
ND006	2	1.83	1.66	1.5	1.32	1.16	1	0.83	0.66	0.5	0.33	0.33	0.33	0.33

CD107a	Sample													
	3M	2.75M	2.5M	2.25M	2.0M	1.75M	1.5M	1.25M	1.0M	0.75M	0.5M			
INF055	6	5.5	5	4.5	4	3.5	3							
INF287	6	5.5	5	4.5	4	3.5	3							
INF052	6	5.5	5	4.5	4	3.5	3							
ND050	6	5.5	5	4.5	4	3.5	3							
ND006	6	5.5	5	4.5	4	3.5	3							

Simplified Protocol

Thaw cells, DNase, count.
Collect, count, dilute cell 2.3, 0.6 x Cells 150 / 5ml polyethylene tube.
Bring volume up to 1 ml R10, and add 2 μ l PMA/Cr and CD70/2
Cap and incubate at 37°C for 6 hours

Wash with 2 ml PBS, spin down 1300rpm 8min
800 μ l of Live/Dead mix 1:2500 @RT for 15min
Wash 2 ml 5% PBS-FBS, spin 1300 rpm, 8min

Add Hoebslan mix, incubate @37C for 30 min
Wash 2 ml 5% PBS-FBS 1400 rpm, 6 min

Add Tertrams, incubate @RT for 10 min
Wash 2 ml 5% PBS-FBS 1400 rpm, 6 min

Add Coddslan mix, incubate @ 4C for 30min
Add 300-500 μ l 1x RBC Lysis for 3 minutes
Wash 2 ml 5% PBS-FBS 1400 rpm 6min

300 μ l BD FxCyem, incubate @ 4C for 20min
(vortex every 10 minutes)

First PermWash:
Second Perm Wash:

1 ml PermWash 1500 rpm 6 min
1 ml PermWash 1500 rpm 6 min

Add Intracellular Stain, incubate @ RT for 40min
First PermWash:

2 ml PermWash 1500 rpm 6 min

Resuspend in 70 μ l 0.4% PFA-PBS
Cap tubes, wrap neck in foil, store at 4C

1.5/1 antibody

Thaw cells, DNase count.

Collect, count, aliquot cells 2.3.0E+6 Cells R10 / 5ml polystyrene tube
Bring volume upto 1 ml R10, add 2 ul PMACtrl and CD107a
Cap and incubate at 37°C for 6 hours

Wash with 2 ml PBS, spin down 1300rpm 8min
800 ul of LiveDead mix (1:2500) @RT for 15min
Wash 2 ml 5% PBS-FBS, spin 1300 rpm, 8min
Add HoeStain mix, incubate @37C for 30 min
Wash 2 ml 5% PBS-FBS 1400 rpm, 6 min

Add Tetramers, incubate @RT for 10 min
Wash 2 ml 5% PBS-FBS 1400 rpm, 6 min

Add ColdStain mix, incubate @ 4C for 30min
Add 300-500 ul 1x RBC Lysis for 3 minutes
Wash 2 ml 5% PBS-FBS 1400 rpm, 6min

300 ul BD FixPerm, incubate @ 4C for 20min
(vortex every 10 minutes)

First PermWash:	1 ml PermWash 1500 rpm 6 min
Second Perm Wash:	1 ml PermWash 1500 rpm 6 min

Add Intracellular Stain, incubate @ RT for 40min
First PermWash: 2 ml PermWash 1500 rpm 6 min

Resuspend in 70 μ l 0.4% PFA-PBS

5.1.2 antibody

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12/21

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C4C223
Vd2

3/27/2023

[illegible]

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