January 18th, 2023 Cord Blood - PMA Timing Specimen Status Location Conc Date **Tasks** Volume 7011 Ly Ly+Mon Total n 8085-3 3E+6 BOX 38 .3E+61600 Gord 15. 6pl 6,2 12XET 2m1 B.4.45 6.93 101 RXEK 6-8 1500x/1 3.40 2001 6.03 701 11 00 1250cm 24.8741 3.41 2ml 5.41 2056 08-12-24 40 × 104062 21.911 4.57 2ml 7.59 PINN GOM - 800 Lo respectly Than 9:10an Styrden freezing pon 12 closed had in rout 20°c 9:37 am DNASE Sax cords compion and vial a: 14 am 7 still vaporing 9:43 for WY002 40 Fl Aguy d: 500m × 26/1/006. Stain count @ 9:51 am Court start @ 10:04 am NACEZ water buth thoused @ 9:28 am, 3 min wat for controloge Incubation start a 1002 AM 8.90 6-80 No Sple Died Intra Va? 2 22.52 El cells Ja7.2 Total DINT 9.14 EG Adult "Addr 35x. 3=10.5 segural 0 0 3 adult ses 6 posaka polo 00003 4H of acra + 3 timepents color 13 tubes 7 cos spred 11 States H+C 2 No CO3 Spile 2 Telets go of the H-TC produced 3 adutes aytollines 11 (10 minute head) 20122 (12) 22.52 / 7 = 3.217 2 AF647 will be added molephenda the 2 added wink 3409 (14) 22.52 / 8 = 2.915 2:12 pm

Notained Put

\* Ca tobes Permissin Cytolines de adult

receaved PAHT

2 tobes regular uso co3 spike/ 6 50

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regularstop) o I 2 takes winton spilled .
regularstop

Isuhatitis.

344

2410/1R0+191

1 ustraped 2pl + 2pl dry Alos prepode 2:35 pm Reagents prepede 2:53pm // Note: No adult PMA scs, talka from cord PMA instaural CDG9, TWFA, IFNY & 4hr: 40 e 15:14pm CO1072 from 3 cool tracpols Cits E01072 chillin) -> after FBS wash into 42 to west Scrother Se's GFBS Spine 3:33pm 537°C @ 3:44 -> 4:14pm Ehr: spine 4103pm 5/5/1/PCH: 13 pm -7428 pm 2m 5135 mach @ 19:28 pm of Hold > spin, next up tetrainers.

Hh & H: 26pm -> 36pm 10mm februarer head starts

259.7 cold

7:40

7:40

7:40

5:10pm 5:0pm [ALL Spin @ 5:13 pm (coincided)

(Adult algorid) Thank FBS for adde hours wash 5/5: 10 mh tétramer @ 5:29-739 4's FKRein@ 5:31-7 & 41-75:51 pm 30 min Calso c0107as 425hp ne RBC 19 sel ) pun 1 @ 5:42-7 G's WO @ 5:37-7 52 PM (FBSwash) [6:12 pm] 5 the 4°C COED Noved 16:12 pm 9 white Adult & spine 5.45 -> 53 pm (to hood) En RBC/79 Cremwash I in direct @ 1400 6 pm Adult 50's varietedy

Cord Blood - PMA Timing 6:17pm 5. cold out needs RBC tyse 6:03 pm 2nd Parm H, 40 FBS spin for 6. (10 minute delayed, but 7 min in wash FBS/ (6:07pm) Se's moved to 42 for time being (uncertain when I can set to them and rather let them J.RBC lyse wash @ 617pm stay add) Mini centrales e deed, cytollon mix skell inside 6:27pm 18 mto 372 stain - 18:57pg/ 5 into FxRum @ 6:30 ->40 -> 50 H° The Cytelline 10 @ 6:37-747 + [49.5p] spired 4.5 CO107a 50/1 0.4% PFA @ 6:39 pm Making 10% F35-PBS @ 6:43 4. Jaking Inters @ 6:43pm - 18:18pm och 4 5. Foot Fex Pernwash @ 6:51 pm 7 2nd Permish & FBSWash [scs stat] 5. cyte 7:12 322 Hot stad in an estre 11 In @7:10pm Sp. Ned > @9:23 Tetramers & Va Alos colded Vinto Good @ Tripa Scscold

5.- Intracellelar done @ 7:53 pm -> mto 79/ PFAE 8:04pm 4° = stain e 7:46 -> 8:16pm/ Hot scs in @ 8:00 Am -> 8:30 pm/ Tet Stys in @8:05 -> 8:20pm

Rge Igsal the unstands etc for se's ] 8:26->36->46

M Combined pen wash

spen @ 8:54pm

Cond 2 2nd Prenwash@ 9:08pg Hot RBC lyse @ 8:39 pm/ Spon WFBS C 8:42 > FixPean @ 8:55705-75 @ 9:35 intracy - 745 TIntracelllars in @ 9:49 pm (Spiked components)
-> 10:49 pm 235 mm Sch organized @ 9:55 pm Final spin @ 10: 24 pm Done @ 10:42 pm /

J
6
except
Springs,

The contribute   The	-						607		66	· ippette draw volume / sample	. ippette	-		/sample	1			
Column   Characterism   Column   Colu	450	50	60.5	5.5		000	0.0	000			Diametto	2 0	100.00	ippette draw vo	. 70			
	31.5	5.5	2			000	500	650	50	Brilliant Stain		100000	N.	₹10 Media			INTROIS III	d UNSTAINED C
	2	3 .	20	л		178.1	13.7	247	19.0	Antibody Total		2010		Intibody Total				
The color part of the color part   The								20.8	1.6					(HII Z)	0000	or of the Care		
The color of the								26	2					(0223)	CDan	APC/Fire 810		27 R8
The control force   Control										0>	<1:250				CDOT	APC/Eire 750		
Third   Thir											###	100		(FIHAS)	1/0	Zombie NIB		25 R6
The control of the							<: >( )							1	CDAOZ	APC-R700		
3   10/2   2   10/2   2   10/2   2   2   2   2   2   2   2   2   2	4.0	0.5				9.1	0.7					-			hMR1	AlexaFluor647		23 R2
1   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2     2   10/2   2	2 7					19.5	1.5					-			CD16	APC		
The column		1	775	25											PD1	PE-vio770		1
1   10/2   10/	4.5	2.0						15.6	1.2					(MAB11)	TNFa	PerCP-Cy5.5		
1   1   1   1   1   1   1   1   1   1								15.6	1.2					(M-A251)	CD25	PE-Cy5		
1	4.5	0.5		,				19.5	1.5					(M-A261)	CD26	PE-CF594		1
1   1   1   1   1   1     1	4.5	0.5				15.6	1.2	2	1						NKG2D	PE		
1   1   1   1   1   1   1   1   1   1				100			() < :>							(SK7)	CD3	Spark blue 550		
Duty								10.0	400						hCDId	Wexatinot 488		17 B3
Duty			16.5	1.5				195	15					(11A9)	CCR6	BV786		
Column   C						1000			-					(827)	IFNY	00,400		15 V15
Durity   D	9.0	1						12	1						(0)	TTAAA		14 V14
Column   C								13	1		100				CCR/	BUTTI		28 V13
During   Part   During   Part   During   Durin								13	1.0						CUDS	BVGEO		
Column   C						3.I	0.7								Open	RVGOS		12 V10
Column   C						2	7	-						(Hi100)	CD45KA	OTCAG		
Column   C						20.0	2.0	26	2					[REA631]	TOTAL	BYESO		
During   Place   Pla						26.0	20				188			(HIB19)	FILE	aciiic bige		
During   Place   Pla						0.30	20							(M5E2)	4700	Pacific Blue	L	V3
During   D	4.:	0.5						19.5	1.5					(COCTON)	COLA	Pacific Rine		
Delivery			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		6		- 5	19.5	1.5					LACTORE	CD127	BV421		
During   D			100 000		2	32.5	2.5							(SK3)	CDA	BUV805		
During   D						9.1	0.7		-					(106/	CXCR3	BUV737		1
During   D									2.0		1			(B6)	V82	BUV661		
Out	30000	0	11.0	1		6.5	0.5							(161)	CCR4	BUV615		1
During   13   Outstand   14   Outstand   15   Outstand   15   Outstand   16   Outstand   17   Outstand   18					100	9.1	0.7		-					(FN50)	CD69	BUV563		
During   13   During   13   During   13   During   13   During   13   During   13   During   14   During   15   During   15   During   16   During   17   During   17   During   18					340			1	1					(RPA-T8)	CD8	BUV496		
UV2 GRIVANS CORZI (DRIG-56) Con Value Simil 13 (RT) Tritamar 40 H-Stain Min-QRT 30min-QRT 13 CoddSuin Min-QRT 13 CoddSuin Min-QRT 13 Min-QRT 13 Min-QRT 13 Min-QRT 13 Min-QRT 14 Min-QRT 15	No.					15.6	1.2		-		-				AF-UV6	AF		1
The state of the s			Phy (	(A)	Fix/Perm									(DREG-56)	CD62L	BUV395		
			No.	Cytokine Sta	RBC Lyse, then		ColdStain 30min @4C		HotSta 30min @		CHARLES .	StimIII	Vial Lot #	Clone	Marker	Hluorochrome	100	

## Simplified Protocol

Thew cells, DMAss, count.
Collect, count, aliquot cells 3.0E+6 Cells R10 / 5ml polystyrene tube
Bring volume upto 1 ml R10 add 2.ul PMA/Ctrl and DuringStim antibody
Cap and incubate at 37°C for 6 hours

Wash with 2 mi 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 tetramers for 40 minutes at RT>
Wash with 2 ml PBS, spin down 1300rpm 8min

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

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: 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: 1 ml Perm Second Perm Wash: 1 ml Perm

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

Resuspend in 100 ul 0.4% PFA-PBS Cap tubes, wrap rack in foil, store at 4°C

On at around ~ 8:34 AM

Qc@ 8:57 am

Placed 70pl, collecting 80pl simples.

Cord unstruned control ~ 7000 events @ 9.03 am Jackery bos of 15th Sor corola controls

A closer to 1 million events / tobe, so yearly math was indeed off the no horn, no fort, given = 1, it's @ AMA experiment

so even it not great alkIT a timory
this, now far mal ~ cos spilling

: No cD3 spile looks FSC/SSC a bitdefferent? (or is it a 6 hr frond?)

PMA instanced does look a bit different, but is it the PMA?..

Se's start @ 9:53am

corola 425 vogh -> due to no RBC lyse?

CD38 also issue, se's @ 370e?

David Ruch, Haotons, Ngina, God Prey, Osward, Irsad

Frank, Morcel., Mirrian, Lylle & Cairo

January 18th, 2023 Cord Blood - PMA

100									
6	50	100	50				OTS III	And UNSTAINED CONTROLS !!!	INSTA
	3	17	8.5						
				CD38	APC/Fire 810				
				CD27	APC/Fire 750			88 :	27
				L/D	Zombie NIR			R7	26
				CD107a	APC-R700			R6	25
				hMR1	AlexaFluor647			R4	24
				CD16	APC			R2	23
1.0	0.5	1.0	0.5	PD1	PE-VIO/70			R	29
		5.0	2.5	TNFα	reicr-cys.5			B13	22
1.0	0.5	1.0	0.5	CD25	PorCh Cur F			B10	21
				CDZ6	DE CUE			B8	20
1.0	0.5	1.0	0.5	NRGZD	DE-CECON		1	B6	19
		1.0	0.5	NIKCOS	PE DEC 200			B4	18
				incorn	Spark blue 550			B3	17
				hCD14	AlexaFluor 488	ATT.		B2	16
		3.0	C.T	COBE	BV786		5	V15	15
			2	IEN <sub>b</sub>	BV750		2.5	V14	14
2.0		2.0	1	CD7	BV711			V13	28
		2	a	CCR7	BV650		E IS	V11	13
				CDS6	BV605	all		V10	12
					BV570				
				CD45RA	BV510		166	<	
				CD161	BV480		5	i S	1
				CD19	Pacific Blue	Sie	la l	VI VO	10
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D.T.	0.0	1.0		CD127	BV421		İ	5   5	
		1	0.5	CD4	BUV805	Edia .	k	UV16	
				CXCR3	BUV737		ŧ	OL4	
				V82	BUV661	CORS	3455		n
				CCR4	BUV615			UV11	5
	J	2.0	Н	CD69	BUV563	I GH		UV10	4
				CD8	BUV496		7	6AN	3
				AF-UV6	AF			UV7	2
				CD62L	80V395				
	67							UV2	1
No CD3 2		2	All in One	Marker	Fluorochrome	Ref ctrl name	Filter Single color (ul) Ref ctrl	Hiter	#

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(vortex every 10 minutes)

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

Second Perm Wash:

First PermWash:

Add Intracellular Stain, incubate @ RT for 40min

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

First PermWash: Second Perm Wash:

Resuspend in 100 ul 0.4% PFA-PBS
Cap tubes, wrap rack in foil, store at 4\*C

Notes:

Merged Tetrouner adult Acturate & TNFa & TFNy as the shoot is COG9 is asing actuated PAL-notweed Cood (6 hr?)

CO1072's 4.5,6 But. extenstop

PMA/cord atrl 20mbre using 3 dead (may need to brease inductively)

Charl 1: RMA 20mbre Chr] V 1 2 needs suapped

ILT & NK SFC Panel

1											_		_		-			_			Т
812		750 760							598	582	542	525	514	508	473	458	443	428	388	373	obection
UV16	UV15	UV14		UV13	UV12		UV11	UV10		UV9	UV8		UV7		970	UV5	UV4	UV3	UV2	UV1	
BUV805		BUV737				1	BUV661	BUV615		BUV563			BUV496		AF-UV6				BUV395		\ \ \
Ξ		<u> </u>					<u>a</u> 3	<u></u>	3	<u>.</u>		2	3						[2]	$\dashv$	
CD4		CXCR3				9	C C Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	000	000			CDO		2	<b>)</b> П			i	CD62L		
V16	V15	V14	V13	< N		_	V10	<u> </u>	<b>⊗</b>	5	٧6		\ <u>5</u>	<b>4</b>		\ \ \ \ \ \	5 5	<u> </u>		$\dagger$	
	RV786	BV750	BV/11	ì		0000	BV605		BV5/0	BV510	!		BV480		racbine	DanBina	14	BVASA			Violet
<u>.</u>	3	[2.5]	4			[3.5]	[3]			[1.5]			<u></u>		3	:	4	:		t	1
CCRG		IFNg	CD7			CCR7	CD56			CD45RA			CD161		CD14/19		721.00				
B13	B12	B1 <sub>1</sub>	B10	B9	B8	B7	B6	B5	B4	B3	B2		B1							+	+
Pe-Vio770				PerCP-Cy5.5	PE-Cy5		PE-CF594		ᇛ	SparkBlue 550	AF488									Blue	
3				[2]	[4.5]		<u>4</u>		4	3	[1.5]										
PD1		a		TNFa	CD25		CD26		NKG2D	CD3	[1.5] hCD1d/Va24Ja18										
R7	R6	R5	R4	Z3	R2	R <sub>1</sub>															1
APC-Fire 750	Zombie NIR		APC-R700		AF647	APC														Red	620210171
<u> 2</u>	Ξ		<u> </u>		[3.5]	[3.5]															٥
CD27	L/D		CD107a		hMR1/Va7.2	CD16															

1/18/2023





