

# Turner Lab Notebook

Callum Malcolm

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Wednesday 15-03-2023

## Cell Culture

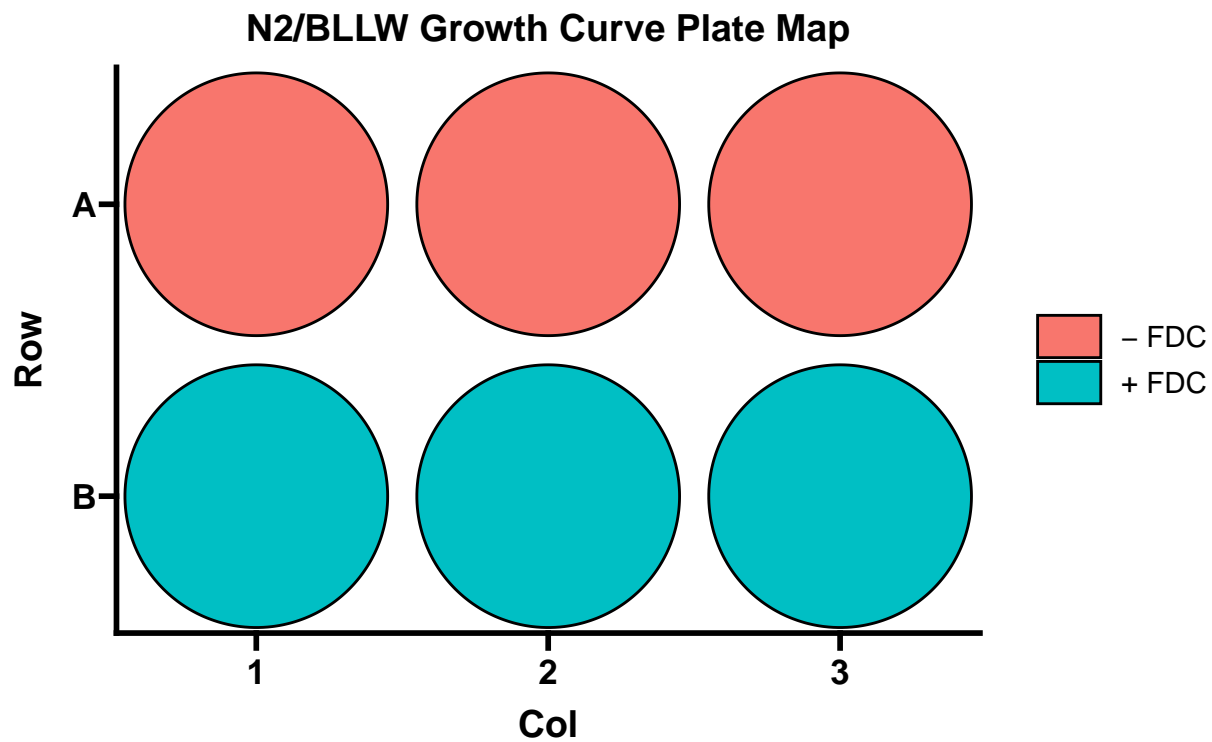
- Given N2/RBL1/BLLW PDX line from Chris Steele

## N2 Growth Curve

Looking to compare N2 growth on and off feeders

- Seeded 2mL of N2/BLLW cell suspension at  $0.25 \times 10^6$  cells/mL

### 96 Well Plate Map



Thursday 16-03-2023

## N2/BLLW Growth Curve Day 1

- Cells gently mixed
- 30  $\mu$ L cell suspension taken and counted
- Only counted 1 square and multiplied by 4

Cell Line	FDC Status	Count	Cell Number
N2	+ FDC	25	2000000
N2	+ FDC	26	2080000
N2	+ FDC	12	960000
N2	- FDC	15	1200000
N2	- FDC	14	1120000
N2	- FDC	6	480000
BLLW	+ FDC	6	480000
BLLW	+ FDC	6	480000
BLLW	+ FDC	5	400000
BLLW	- FDC	3	240000
BLLW	- FDC	3	240000
BLLW	- FDC	6	480000

## Friday 17-03-2023

### N2/BLLW Growth Curve Day 2

- Cells gently mixed
- 30  $\mu$ L cell suspension taken and counted
- Only counted 1 square and multiplied by 4

Cell Line	FDC Status	Count	Cell Number
N2	+ FDC	36	2880000
N2	+ FDC	28	2240000
N2	+ FDC	38	3040000
N2	- FDC	61	4880000
N2	- FDC	38	3040000
N2	- FDC	16	1280000
BLLW	+ FDC	3	240000
BLLW	+ FDC	5	400000
BLLW	+ FDC	5	400000
BLLW	- FDC	1	80000
BLLW	- FDC	0	0
BLLW	- FDC	1	80000

### Split Cells

Cell Line	Cells/mL	Cells/mL Seeded	CS volume	Final Volume	Seeded Cells/mL
N2	$8.8 \times 10^5$	$3 \times 10^5$	6.8 mL	12 mL	$3 \times 10^5$
RBL1	$8.6 \times 10^5$	$3 \times 10^5$	11.6 mL	12 mL	$5 \times 10^5$

## Saturday 18-03-2023

### N2/BLLW Growth Curve Day 3

- Counted by Chris

## Sunday 18-03-2023

### N2/BLLW Growth Curve Day 4

- Counted by Chris

## Monday 20-03-2023

### N2 Growth Curve Day 5

- BLLW were all dead, experiment stopped
- Cells gently mixed
- 30  $\mu$ L cell suspension taken and counted
- Only counted 1 square and multiplied by 4

Cell Line	FDC Status	Count	Cell Number
N2	+ FDC	146	11680000
N2	+ FDC	112	8960000
N2	+ FDC	132	10560000
N2	- FDC	112	8960000
N2	- FDC	155	12400000
N2	- FDC	141	11280000

### Split Cells

- Split cell lines N2/RBL1/JIRE
- Dirty split 1:2

### Seed BLLW

- Given BLLW aliquot from Chris Steel
- Thawed and resuspended in 12 mL media
- Added to T75 pre-seeded with FDC cells (from Chris Steel)

## Tuesday 21-03-2023

### Large Infection in TC

- N2 Growth Curve stopped

## Friday 24-03-2023

### Seed Cells - N2/RBL1/JIRE

- Vials given by Chris Steel
- Thawed and resuspended in 12 mL media
- Added to T75 pre-seeded with FDC cells (from Chris Steel)

## Monday 27-03-2023

### Split Cells

- Split cell lines N2/RBL1/JIRE
- Dirty split 1:3

## **Wednesday 29-03-2023**

### **Split Cells**

- Split by Chris Steel.

## **Friday 31-03-2023**

### **Split Cells**

- Split cell lines N2/RBL1/JIRE
- Dirty split 1:4

## **Monday 03-04-2023**

### **Large Infection in TC**

### **Seed Cells - N2/RBL1/JIRE**

- Vials given by Chris Steel
- Thawed and resuspended in 12 mL media
- Added to T75 pre-seeded with FDC cells (from Chris Steel)

### **Seed EC50**

DNW - N2/JIRE/RBL1

- Vin/Dactolisib

## **Wednesday 05-04-2023**

### **Seed Cells - N2/RBL1/JIRE**

- Vials given by Chris Steel
- Thawed and resuspended in 12 mL media
- Added to T75 pre-seeded with FDC cells (from Chris Steel)

## **Thursday 06-04-2023**

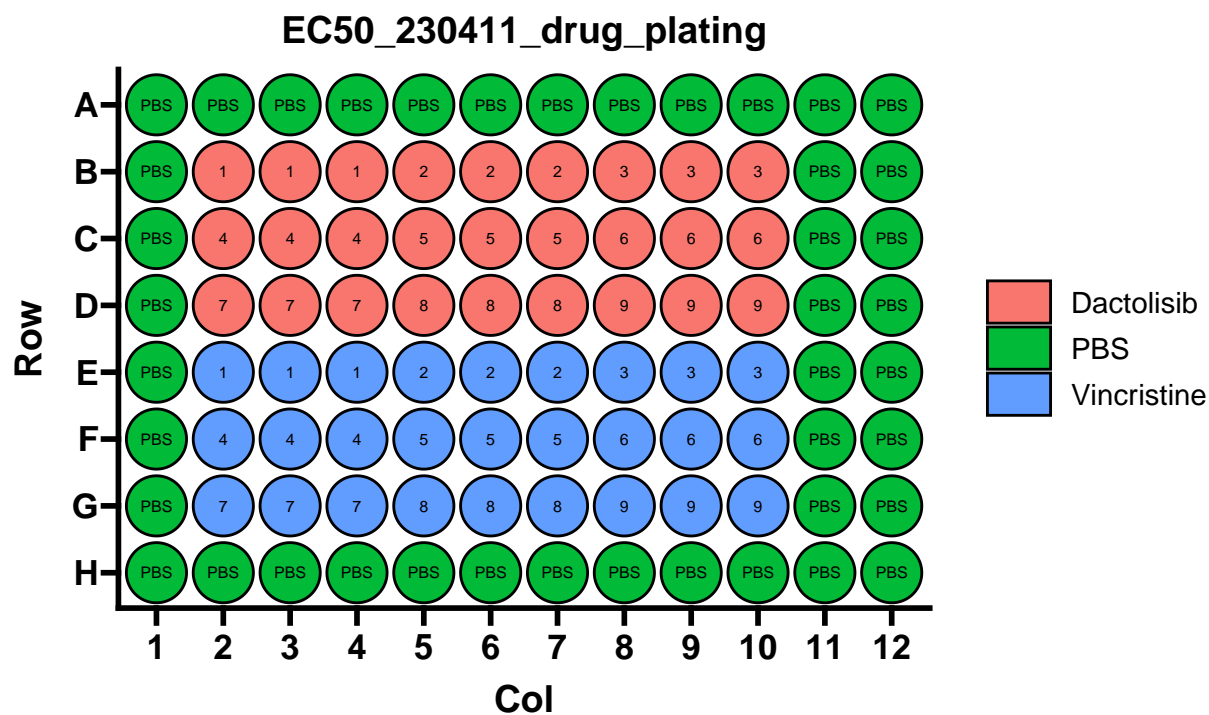
### **Collect EC50 Plate**

- Plate ID: EC50\_230619\_Plate1
- DNW

Tuesday 11-04-2023

Seed EC50\_230411

## 96 Well Plate Map



### Drug Dilutions

Drug	Dilution	Concentration	Units	Starting_Concentration
Dactolisib	1	20	uM	20000
Dactolisib	2	2	uM	2000
Dactolisib	3	0.2	uM	200
Dactolisib	4	0.02	uM	20
Dactolisib	5	0.002	uM	2
Dactolisib	6	0.0002	uM	0.2
Dactolisib	7	2e-05	uM	0.02
Dactolisib	8	2e-06	uM	0.002
Dactolisib	9	2e-07	uM	0.0002

Drug	Dilution	Concentration	Units	Starting_Concentration
Vincristine	1	30	nM	30000
Vincristine	2	3	nM	3000
Vincristine	3	0.3	nM	300
Vincristine	4	0.03	nM	30
Vincristine	5	0.003	nM	3
Vincristine	6	0.0003	nM	0.3
Vincristine	7	3e-05	nM	0.03
Vincristine	8	3e-06	nM	0.003
Vincristine	9	3e-07	nM	0.0003

- 3 plates seeded
  - Plate 1: N2



- Plate 2: JIRE
- Plate 3: RBL1

## Wednesday 12-04-2023

### Cell Culture

- Thaw RBL1

### Side Population - N2\_230412

- Hoescht
  - 2.5 / 2.75 / 3
- DNW

## Tuesday 02-05-2023

### Seeding Cells - N2/RBL1/RAMOS

1. Thawed N2, RBL1, and RAMOS into T75 flasks  
Note: N2 and RBL1 flasks seeded with feeders

## Wednesday 03-05-2023

### Split Cells

Cell Line	Cells/mL	Cells/mL Seeded	CS volume	Final Volume	Last day split	P number
N2	8.93x10 <sup>5</sup>	3x10 <sup>5</sup> .	6.71 mL	12 mL	Tues 02-05-23	2
RBL1	7.73x10 <sup>5</sup>	3x10 <sup>5</sup> .	7.76 mL	12 mL	Tues 02-05-23	2

2. Expanded N2-Barcodes to T175
3. Seeded feeders into 96-well
  - a. Diluted feeders to 3.2x10<sup>4</sup> cells/mL
  - b. Add 100μL cell suspension to each well

## Thursday 04-05-2023

## Monday 19-06-2023

### Split Cells

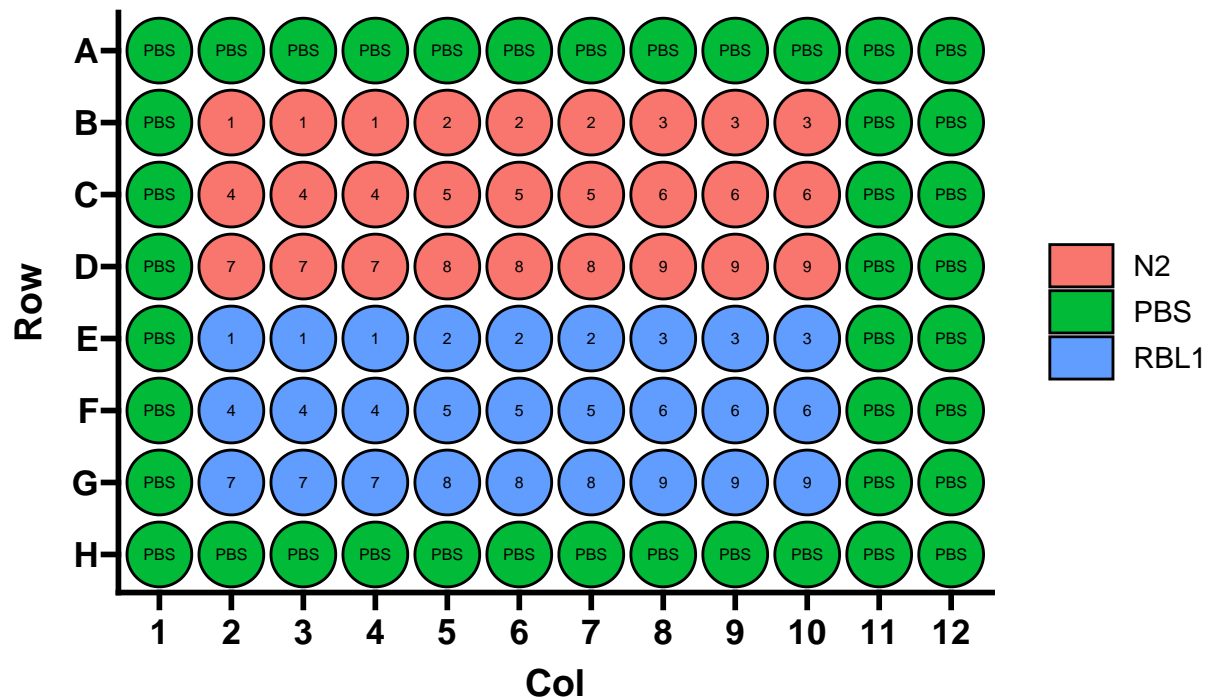
- Split N2/RBL1/JIRE
- Added 10 mL media to BLLW
  - Lots of dead cells observed

## Seed EC50

- Plate ID: EC50\_230619\_Plate1
- Cyclophosphamide (Stock: 20mM) EC50 for N2 and RBL1

## 96 Well Plate Map

### EC50\_230619\_plate1



## Drug Dilutions

Drug	Dilution	Concentration	Units	Starting_Concentration
Cyclophosphamide	1	20	uM	20000
Cyclophosphamide	2	2	uM	2000
Cyclophosphamide	3	0.2	uM	200
Cyclophosphamide	4	0.02	uM	20
Cyclophosphamide	5	0.002	uM	2
Cyclophosphamide	6	0.0002	uM	0.2
Cyclophosphamide	7	2e-05	uM	0.02
Cyclophosphamide	8	2e-06	uM	0.002
Cyclophosphamide	9	2e-07	uM	0.0002

Saturday 20-05-2023

Tuesday 20-06-2023

## RNA Extraction for SP Test 3 Sample

- Sample collected:
- Low number of cells so used Pico-Pure Kit
- 1 sample (n = 1)

*Note before starting:*

- Pre-heat block to 42C
- Pre-make DNase treatment master mix (1.1n)

Component	Volume	MM volume
DNase I Stock	5 $\mu$ L	5.5 $\mu$ L
DNA Disgestion Buffer	35 $\mu$ L	38.5 $\mu$ L

### RNA Extraction Pico-Pure Protocol

1. Extract cells with 100  $\mu$ L of Extraction Buffer (XB)
  - Resuspend the cell pellet gently by pipetting
  - DO NOT VORTEX
2. Incubate at 42C for 30min
3. Centrifuge sample at 3000xg for two minutes
4. Collect supernatant
  - Can stop here and freeze RNA at 70C
5. Pre-condition the RNA Purification Column
  - Add 250  $\mu$ L Conditioning Buffer onto the purification column filter membrane
  - Incubate RNA Purification Column with CB for 5min at RT
  - Centrifuge purification column at 16000xg for 1 min
6. Pipette 100  $\mu$ L of 70% Ethanol (EtOH) into cell extract
  - Mix well by pipetting
  - DO NOT VORTEX
7. Add cell extract to column
8. Centrifuge column for 2 minutes at 100 x g and then 16000 x g for 30s
9. Pipette 100  $\mu$ L Wash Buffer 1 (W1) into the purification column and centrifuge for 1min at 8000 x g
10. Add 40  $\mu$ L of DNase treatment master mix to purification tube
  - Add directly onto membrane
11. Incubate at RT for 15 min
12. Pipette 40  $\mu$ L Wash Buffer 1 (W1) onto purification column membrane and centrifuge at 8000 x g for 15 seconds
13. Pipette 100  $\mu$ L Wash Buffer 1 (W2) into purification column membrane and centrifuge for one minute at 8000 x g
14. Pipette 100  $\mu$ L Wash Buffer 1 (W2) into purification column membrane and centrifuge for two minutes at 16000 x g
  - Check if any wash buffer remains in column and centrifuge again at 16000 x g for one minute to clear all the liquid

15. Transfer purification column to new 0.5mL tube
  - Insert purification column/0.5mL assembly into 1.5mL tube for centrifugation
16. Pipette EB directly onto membrane of the purification column
  - Gently touch tip to surface of membrane to ensure maximum absorption of EB into membrane
  - Use 11  $\mu\text{L}$  to 30  $\mu\text{L}$  EB
17. Incubate purification column for one minute at room temperature
18. Centrifuge column for one minute at 1000 x g to distribute EB in column
19. Centrifuge column for one minute at 16000 x g to elute RNA
20. Started PCR and completed TapeStation

## TapeStation\_\_230620

### High-Sensitivity RNA ScreenTape Protocol

#### Results

- Inconclusive, proceeded with PCR

## Reverse Transcription

### Notes Before Starting:

- Label PCR strip tubes
- Thaw RT reagents
- Uses WILDseq specific RT primer
- Dilute RT primer to 2 $\mu\text{M}$ 
  - Do this in a PCR hood
  - **IMPORTANT** Do not mix primers and carefully note which RT primer is added to which sample
- Make RT and ExoI master mixes (MM) before starting
  - MM amounts are 1.1n

### Protocol:

*Note:* Used “rt” protocol in callum folder on thermocycler for heating steps

1. In PCR strip tubes diluted 1-5ug RNA in a total volume of 10  $\mu\text{L}$  of RNase/DNase-free water
2. Added 1 ul of RT primer
3. Added 1 ul of dNTPs
4. Denatured at 65 C for 5 mins in PCR machine
5. Added straight to ice for 2 mins
6. Spun to get liquid to bottom of tube
7. Prepared master mix of RT enzyme and buffers (Made prior to starting)

Component	Volume	MM volume
5x SSIV Buffer	4 $\mu\text{L}$	4.4 $\mu\text{L}$
SSIV RT	1 $\mu\text{L}$	1.1 $\mu\text{L}$
100 mM DTT	1 $\mu\text{L}$	1.1 $\mu\text{L}$

Component	Volume	MM volume
RNase Out	1 $\mu$ L	1.1 $\mu$ L

8. Added 7  $\mu$ L of RT MM prepared above to each sample and mix
  - Spun briefly to get liquid to bottom of the tube
9. In PCR Machine: incubated at 53C for 10 mins followed by 80C for 10 mins
10. Added 3  $\mu$ L of ExoI MM to each sample

Component	Volume	MM volume
Thermolabile Exonuclease I	1 $\mu$ L	1.1 $\mu$ L
NEBuffer r3.1*	2 $\mu$ L	2.2 $\mu$ L

- Most PCR buffers are compatible
11. In PCR Machine: heat at 37C for 4 mins followed by 80C for 1 min
    - Spin briefly to get liquid to bottom of the tube
  12. Add 1  $\mu$ L of RNase H and incubate at 37C for 20 mins
  13. Dilute final cDNA 1 in 2 with DNase/RNase-free water

## PCR Amplification of cDNA

1. Prepare mastermix of below reagents at 1.1x the number of samples

Component	Volume	MM volume
Q5 Master Mix	25 $\mu$ L	
P5_R1_fwd (100 $\mu$ M)	2.5 $\mu$ L	
P7_rev	2.5 $\mu$ L	
DNase/RNase H20	13.5 $\mu$ L	
Q5 polymerase	0.5 $\mu$ L	
<b>Total Master Mix volume</b>	<b>40 <math>\mu</math>L</b>	
cDNA from above	10 $\mu$ L	

2. Perform PCR using the following parameters:

Steps	Time
Step 1: 98C	30s
<b>Step 2: 98C</b>	<b>10s</b>
<b>Step 3: 61C</b>	<b>30s</b>
<b>Step 4: 72C</b>	<b>30s</b>
Step 5: 72C	2 min
Step 6: 12C	Hold

**20-25 cycles of steps 2-4**

Ran overnight and left at 12C

**Wednesday 21-06-2023**

**Tapestation\_230619\_SPTest3\_cDNA**

High-Sensitivity DNA ScreenTape Protocol

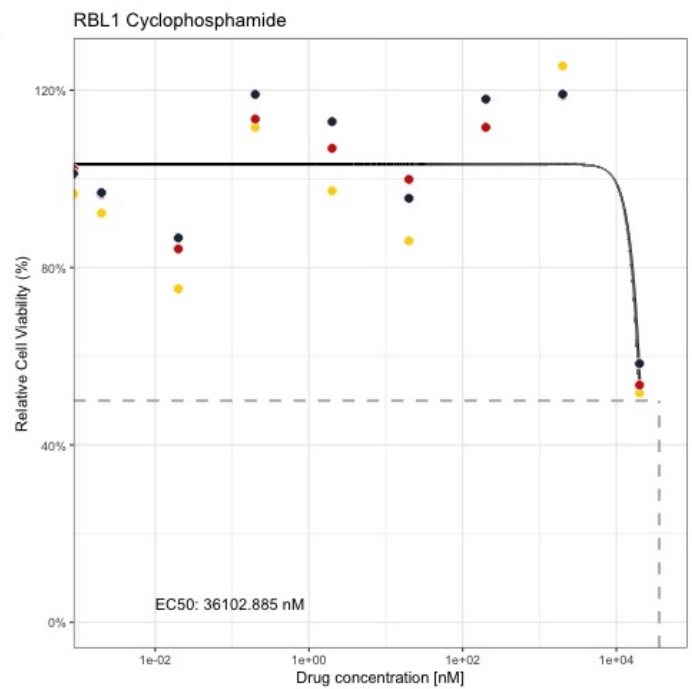
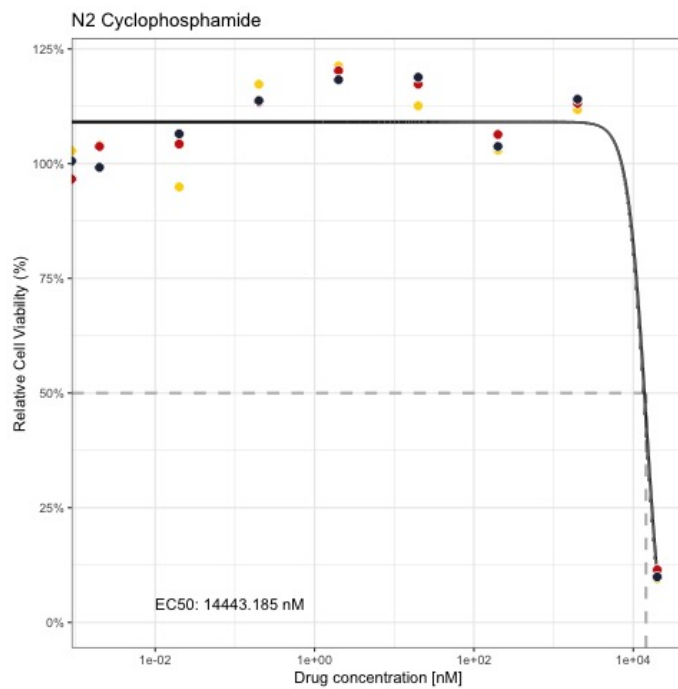
**Results**

- \* Did not work, bands present but faint and not at 200bp
- \* Potential solutions:
  - Repeat PCR with increased cycles
  - Repeat RNA extraction with trizol protocol (Anna)

**Thursday 22-06-2023**

**Collect EC50 Plate**

- Plate ID: EC50\_230619\_Plate1



**Friday 23-06-23**

**Split Cells**

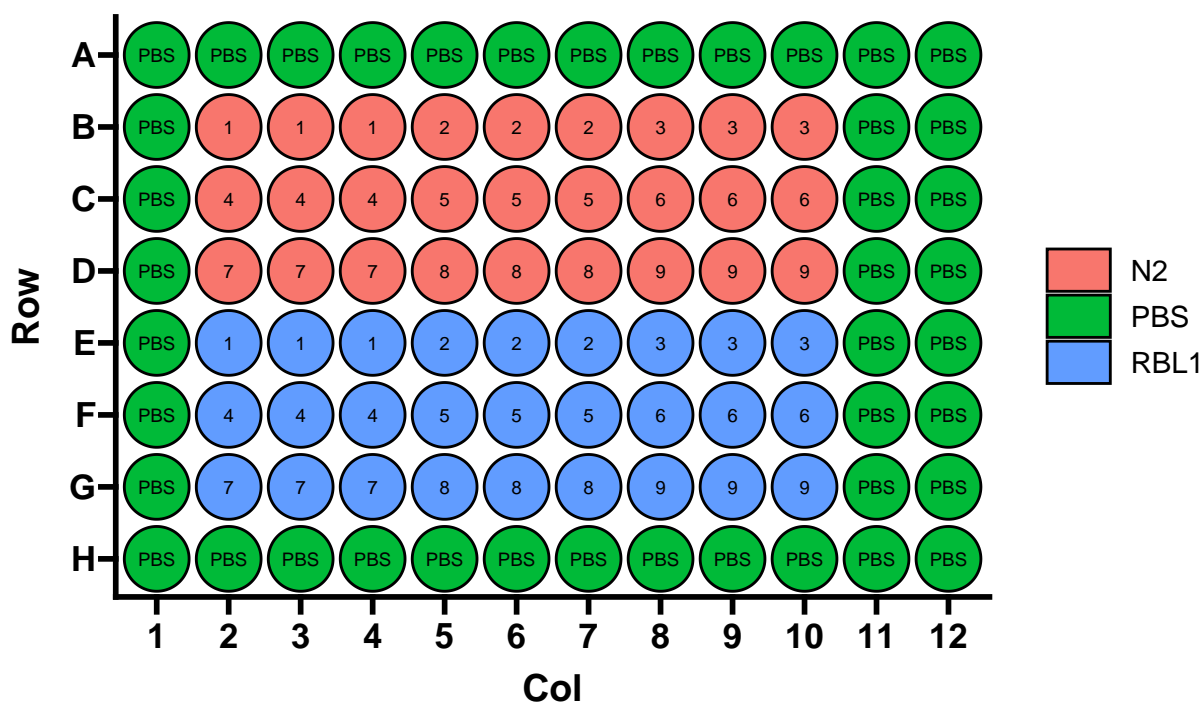
1. Threw out BLLW (all dead)
2. Split JIRE 1/2
3. Split N2/RBL1 1/4

**Seed EC50**

- EC50 Plate ID: EC50\_230623\_Plate1

# 96 Well Plate Map

## EC50\_230623\_plate1



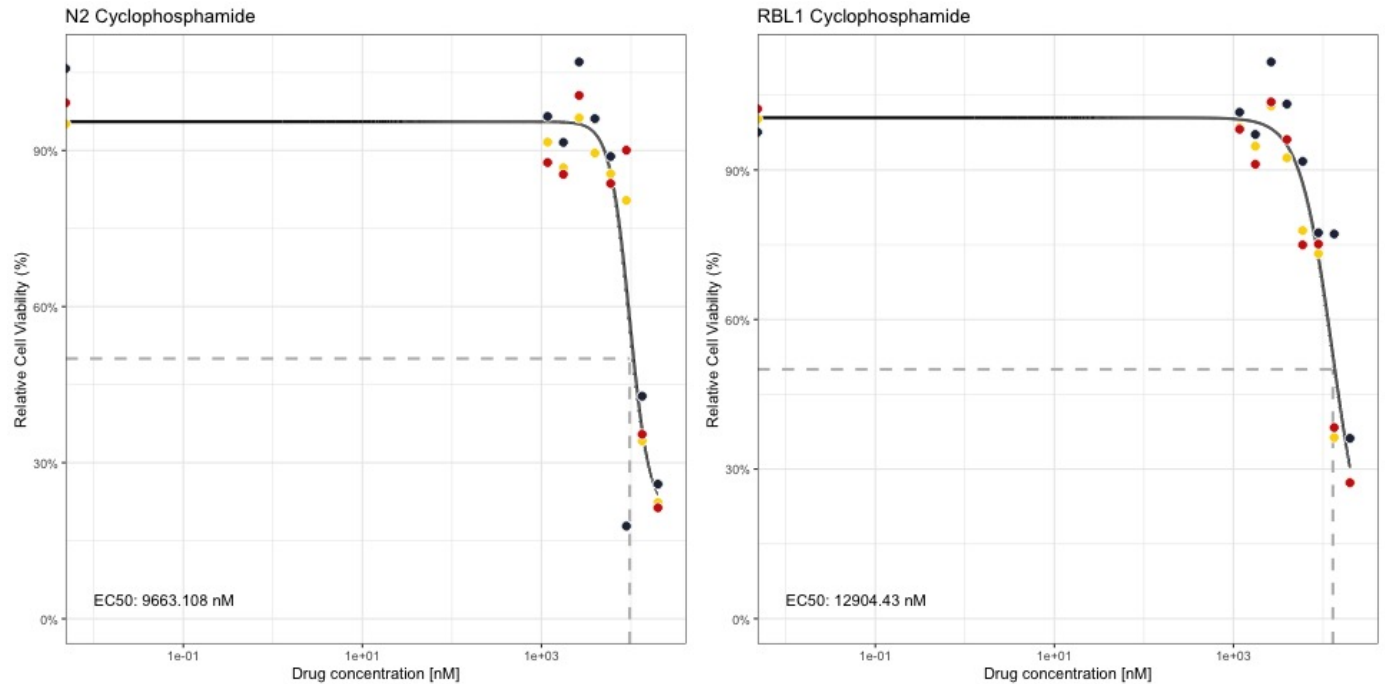
### Drug Dilutions

Drug	Dilution	Concentration	Units	Starting_Concentration
Cyclophosphamide	1	20	uM	20000
Cyclophosphamide	2	13.3	uM	13300
Cyclophosphamide	3	8.89	uM	8890
Cyclophosphamide	4	5.93	uM	5930
Cyclophosphamide	5	3.95	uM	3950
Cyclophosphamide	6	2.63	uM	2630
Cyclophosphamide	7	1.76	uM	1760
Cyclophosphamide	8	1.17	uM	1170
Cyclophosphamide	9	0.78	uM	780

Monday 26-06-23

### Collect EC50 Plate

- Plate ID: EC50\_230623\_Plate1



Break for writing MRes Report: 27/06/2023 - 24/07/2023

**Monday 24-07-2023**

**Seeding Cells - RAMOS/FDC**

**Made New Media: AR-1**

1. Made new media: AR-1

Solution	ID code	Volume	% Total volume
Advanced RMPI	—	500 mL	78%
Glutamax	—	6.5 mL	20%
Pen-Strep	—	6.5 mL	1%
FBS	—	128 mL	1%

2. Seeded Feeders

- 2 vial of FDC cells thawed
- Resuspended in 12 mL of media
- 6 mL of FDC cell suspension were added to 2 separate T75 flasks (Seeding RBL1/BLW on 25-07-2023)
- Remaining 12 mL of Media were added to T175 (Seeding N2 on 25-07-2023)

3. Seeded Ramos WILDseq Barcode Pool 2

- Thawed a vial of RAMOS pool 2 (previously barcoded DATE)
- Resuspended in 5 mL
- Spun down 90\* for 5min
- Resuspended in 12 mL of AR-1 media
- Seeded into T75



## Experimental Plans

1. Barcode BLLW/RBL1
2. Set up Drug pressure experiment for RAMOS barcoded cells
  - EC50's for cyclophosphamide and methotrexate need to be completed
  - Drugs to test (EC50):

Drug	Concentration	Replicates
DMSO	1%	3
Doxorubicin	200nM	3
Methotrexate	100nM	3
Vincristine	1nM	3

3. Do Side Population Experiment for N2 Barcoded Cells
  - Grow up sorted side pop to avoid issues with low cell numbers

## Tuesday 25-07-2023

### Seed Cells - N2-BC4/RBL1/BLLW/RAMOS-BC1

- Got vials from Chris
- Thawed, resuspended in 6 mL AR-1
- Spun down at 90\* for 5 min
- Discarded supernatant and resuspended pellet in 12 mL of AR-1
- Added RBL1/BLLW to T75's pre-seeded with FDC (24-07-2023)
- Added RAMOS-BC1 to new T75
  - RAMOS-BC2 from 24-07-2023 was dead
  - Was taken from -80, New RAMOS vial from LN
- Added N2 to T125 seeded with FDC (24-07-2023)

## Wednesday 26-07-2023

### Cell Culture

- Checked cells, all flasks looked healthy
- Added media
  - N2 - 20ml of AR-1
  - RAMOS - 10 mL of AR-1
  - RBL1 - 10ml of AR-1
  - BLLW - 10ml of AR-1

## Thursday 27-07-2023

### Split Cells - RAMOS

- Split Ramos 1:2
- Added 10ml of AR-1 to N2
- Plan to split RBL1/BLLW tomorrow

## Lucy Drug Randomizer

- Randomized drugs for Lucy Hare mouse experiment

Drug	Identification
Alectinib	A
Erda	B
Vehicle	C
Alectinib + Erda	D

## Friday 28-07-2023

Drug	Dilution	Concentration	Units	Starting Concentration
Cyclophosphamide	1	20	uM	20000
Cyclophosphamide	2	13.3	uM	13300
Cyclophosphamide	3	8.89	uM	8890
Cyclophosphamide	4	5.93	uM	5930
Cyclophosphamide	5	3.95	uM	3950
Cyclophosphamide	6	2.63	uM	2630
Cyclophosphamide	7	1.76	uM	1760
Cyclophosphamide	8	1.17	uM	1170
Cyclophosphamide	9	0.78	uM	780

## Friday 06-10-2023

### Cell Culture

#### Made New Media: AR-2

- Made new media: AR-2

Solution	ID code	Volume	% Total volume
Advanced RMPI	—	500 mL	78%
Glutamax	—	6.5 mL	20%
Pen-Strep	—	6.5 mL	1%
FBS	—	128 mL	1%

## Monday 09-10-2023

### Cell Culture

#### Seeded A20

- Got A20 from Swetha box: 2nd rack in shared -80
- AR-2

#### Seeded FDC

- Seeded feeders, taken from feeder box, irradiated by Chris
- Will seed N4 PDX tomorrow

## Tuesday 10-10-2023

### Cell Culture

#### Seeded N4

- Given by Chris -AR-2
- Seeded onto FDC cells from 09-10
- Future experiments:
  - Barcode PDX
  - EC50: Vincristine/Doxorubicin/Methotrexate/Cyclophosphamide (Active)

#### Seeded RAMOS-BC

- Seeded barcoded Ramos cells - Pool #4
  - From Chris
  - LN tank 1 - Rack 5 - box 2nd from Bottom
- AR-2
- Future Experiments:
  - Combination Drug pressure: Vin/Dox/Meth

#### Checked A20

- Look healthy
- ~40% confluency

## Wednesday 11-10-2023

### Cell Culture

#### A20 Culture

- ~70% confluent
- Split A20 in half
  - Half in 1xT75 and other half in 1xT175
  - T175 to be frozen down

#### RAMOS-BC4 Culture

- ~60% confluent
- Spun down at 400xg for 5 min and resuspended in 20ml AR-2

#### N4 Culture

- Look healthy, attached to feeders with some floaters
- Will add media tomorrow
- Plans:
  - Freeze down aliquots ( $2-3 \times 10^6$  per vial needed, ideally freeze down 3x vials)
  - Plan barcoding experiment

## Thursday 11-10-2023

### Cell Culture

#### Ramos-BC4

- Infected, will need to grab another vial

- Is the Stock infected? Will thaw 2 different pools this time

#### A20

- 1 x T75 + 1 x T175 both about ~60% confluent
- Media is slightly turbid, Jamie did a visual check and cells seem clean (A20 have a tendency towards slight turbidity - Jamie)
- Will add 10mL of AR-2 and observe till tomorrow
- If clean:
  - Freeze down 3 vials from T175
  - Set up EC50s with left over cells (Vin/Dox/Meth)
  - Split

#### N4

- Look healthy, media clean
- About ~40-50% confluent
- Will add 10mL of AR-2 and observe on Friday