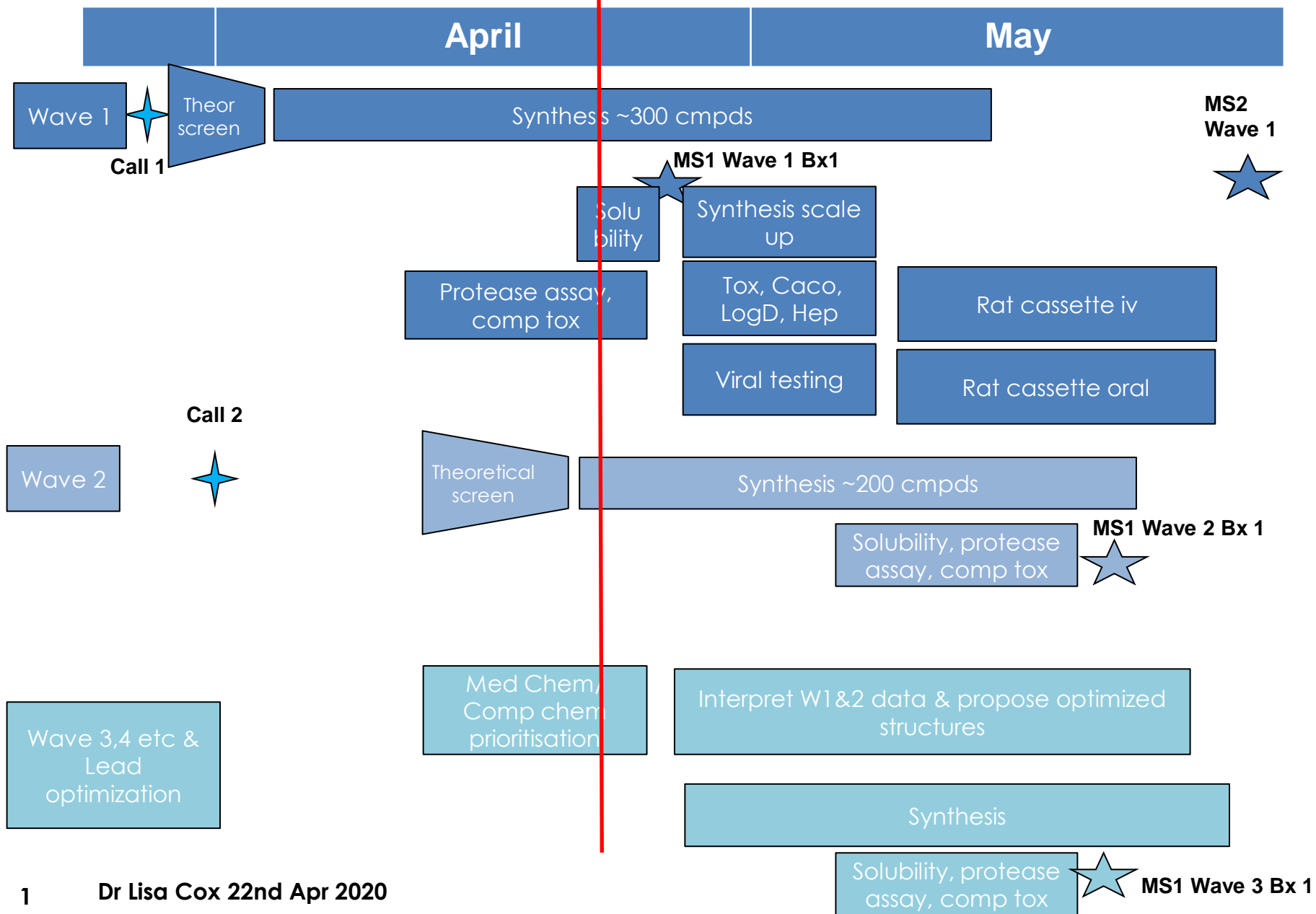
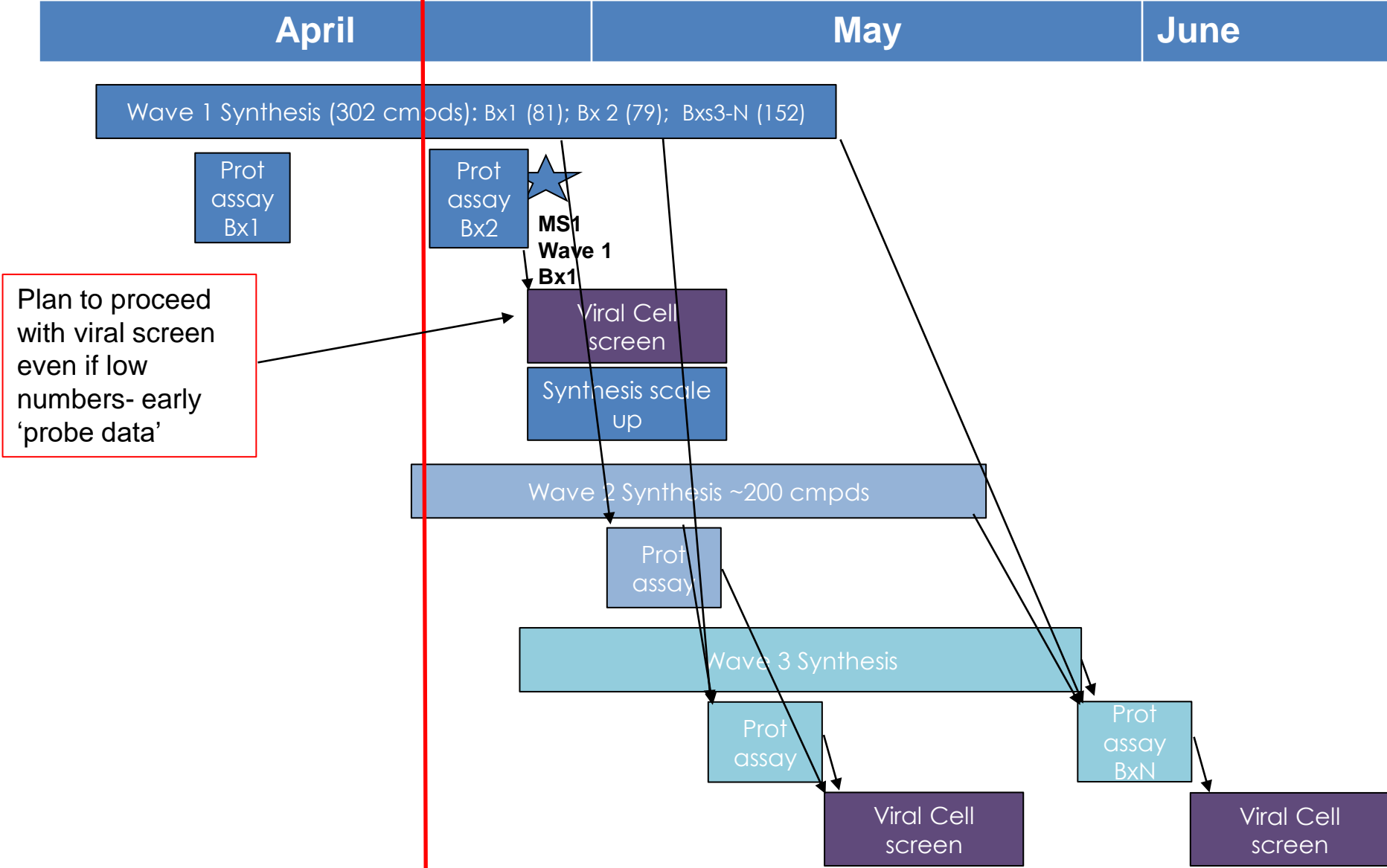


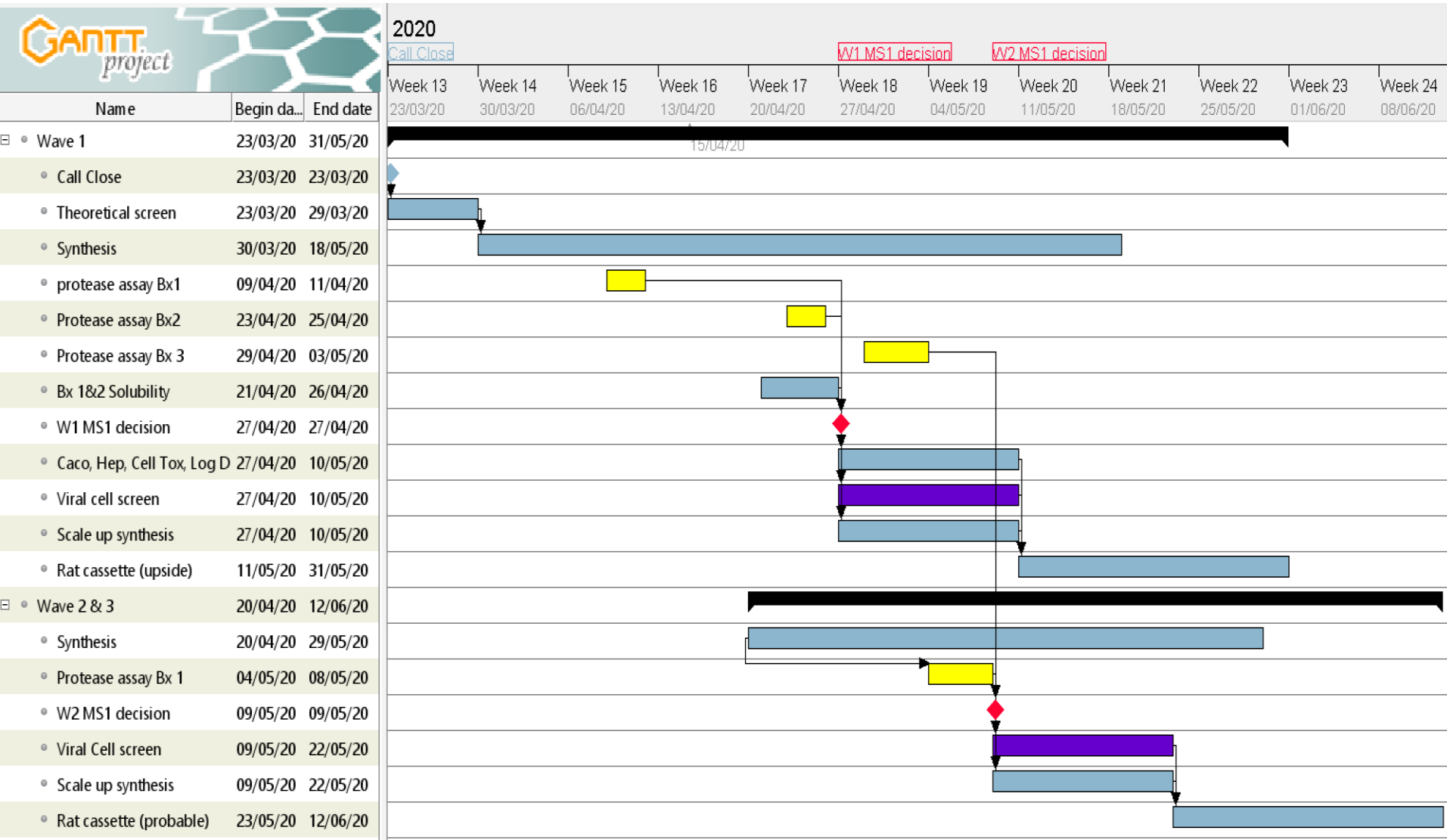
# COVID-19 Moonshot: Overview of Timeline to Milestone 2 (MS2)



# Overview of Planning for Viral Screen



# COVID-19 Moonshot: Detailed timeline



# COVID-19 Moonshot: Key/ details of testing

## Up to MS1 (Milestone 1)

Protease assay @ Oxford Chemistry

Computational tox assays

Threshold Solubility testing @ Enamine  
(test at 10 $\mu$ M & 100 $\mu$ M)

## Up to MS2 (Milestone 2)

Mammalian cell tox testing @ Enamine

Permeability (Caco2) testing @ Enamine

LogD partition coeff@ Enamine

Hepatocytes@ Enamine?

Viral single shot & EC50  
@ Frankfurt/U. Nebraska/Mount Sinai

Rat cassette PK oral@ Enamine

Rat cassette PK iv @ Enamine

# COVID-19 Moonshot: Threshold for progression

## Up to MS1 (Milestone 1)

Protease assay:  $<1\mu\text{M}$   
based on  
<https://science.sciencemag.org/content/early/2020/03/20/science.abb3405>  
 $<20\mu\text{M}$  for cell tox

Threshold Solubility:  
 $>10\mu\text{M}$

## Up to MS2 (Milestone 2)

Viral single shot & EC50

Mammalian cell tox testing LD50  $100\mu\text{M}$

Permeability (Caco2) testing

LogD partition coeff

Hepatocytes

Rat cassette PK oral

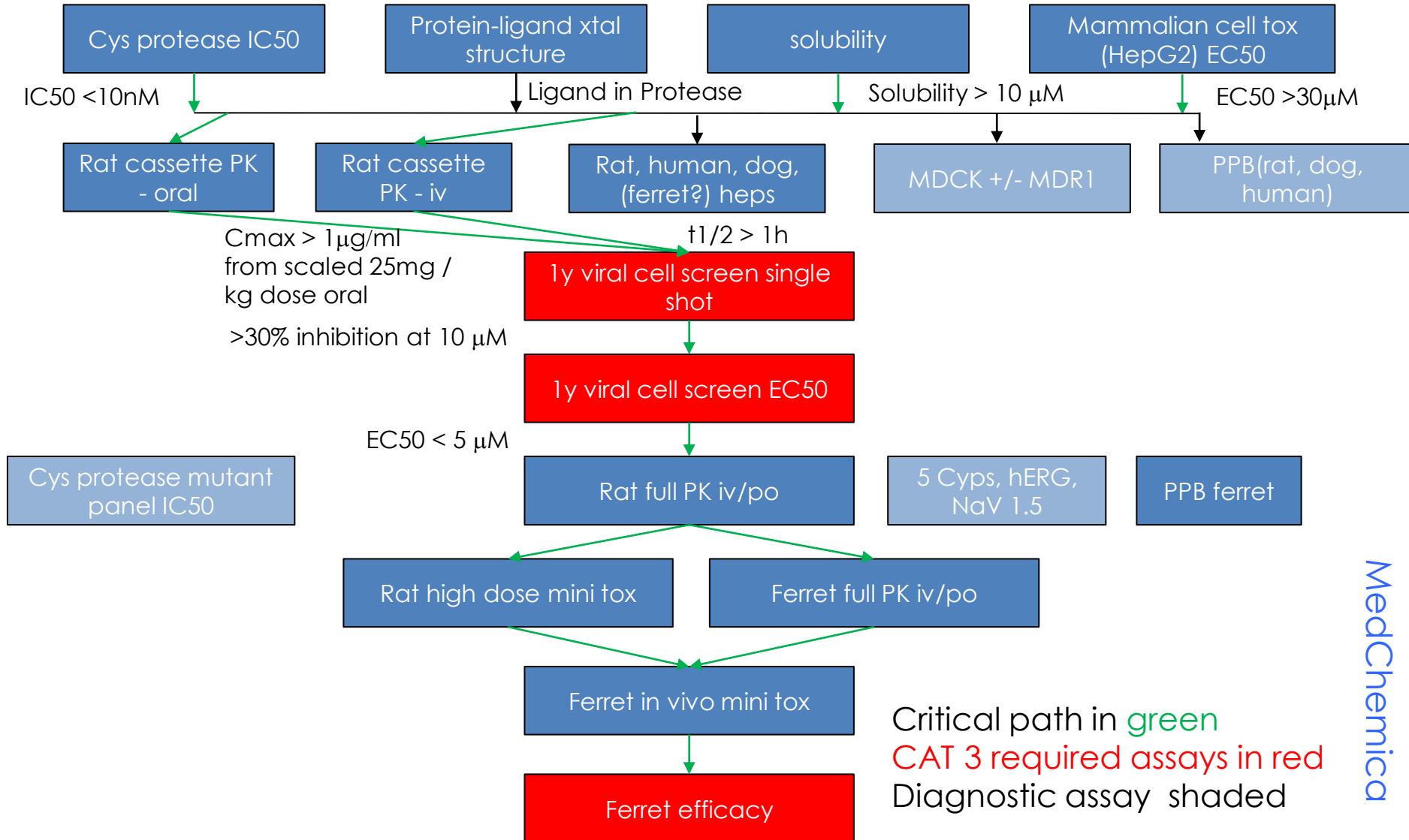
Rat cassette PK iv

# Make/test status 22/4/20

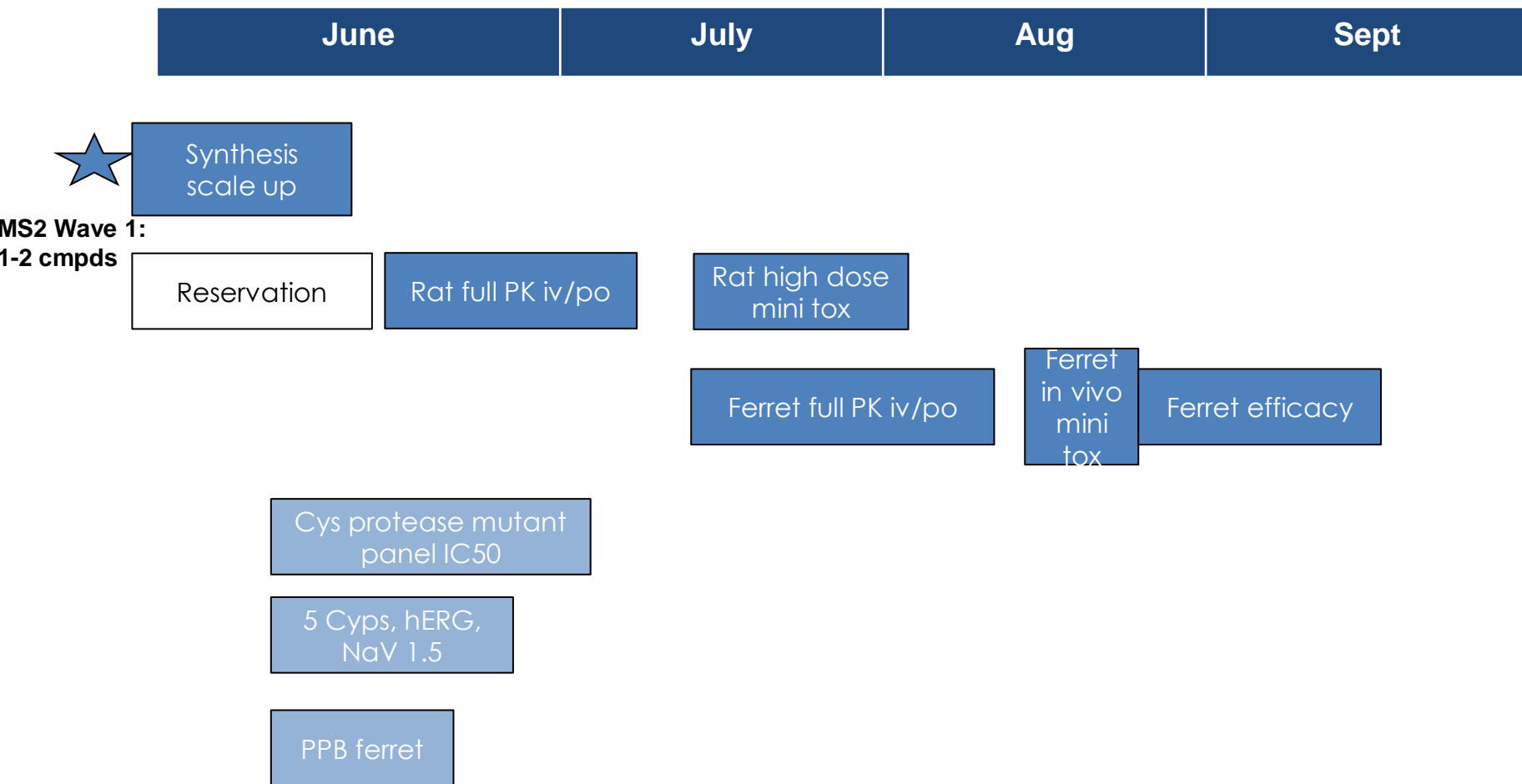
Status summary 15 <sup>th</sup> April	Submitted		Tier 1	Synthesis/ sourcing by Enamine		Protease assay	
				In prep	Supplied	In process/ shipment	Complete
Wave 1	2000	Tier 1	312	92 (due mid May)	220: 81 (Bx1) 79 (Bx2) 60 (Bx3)	79 (Bx2) 120(Bx3)	81 (Bx1)
		Tier 2	313				
Wave 2	3500	Tier 1	202	Bx1 due 5 <sup>th</sup> May?			
		Tier 2					
Wave 3	Date?						

# COVID-19 Cysteine protease testing cascade

## Draft-2



# Outline Timeline from MS2





# Moonshot Grant Opportunities 14th April

Funding Body	Amount	Start date	Deadline	Key contact	Link	Status
UKRI			None	Alpha	<a href="https://www.ukri.org/funding/funding-opportunities/ukri-open-call-for-research-and-innovation-ideas-to-address-covid-19/">https://www.ukri.org/funding/funding-opportunities/ukri-open-call-for-research-and-innovation-ideas-to-address-covid-19/</a>	
Fast Grants			None	Alpha	<a href="http://www.fastgrants.org">www.fastgrants.org</a>	
Cambridge University			14 <sup>th</sup> April	Alpha		
EPSRC				Alpha/ Bobby		
CAAT (John Hopkins)	\$40K		30 <sup>th</sup> April	Frank	<a href="https://caat.jhsph.edu/programs/grants/covid19.html">https://caat.jhsph.edu/programs/grants/covid19.html</a>	
Bill & Melinda Gates				Ed		Ineligible
Israel Science Foundation	\$200K	Mid June	21 <sup>st</sup> April	Nir		
Oxford University			16 <sup>th</sup> April	Frank		
Harrington Discovery Inst	<\$1M		30 <sup>th</sup> April	John	<a href="http://www.harringtondiscovery.org/coronavirus">www.harringtondiscovery.org/coronavirus</a>	