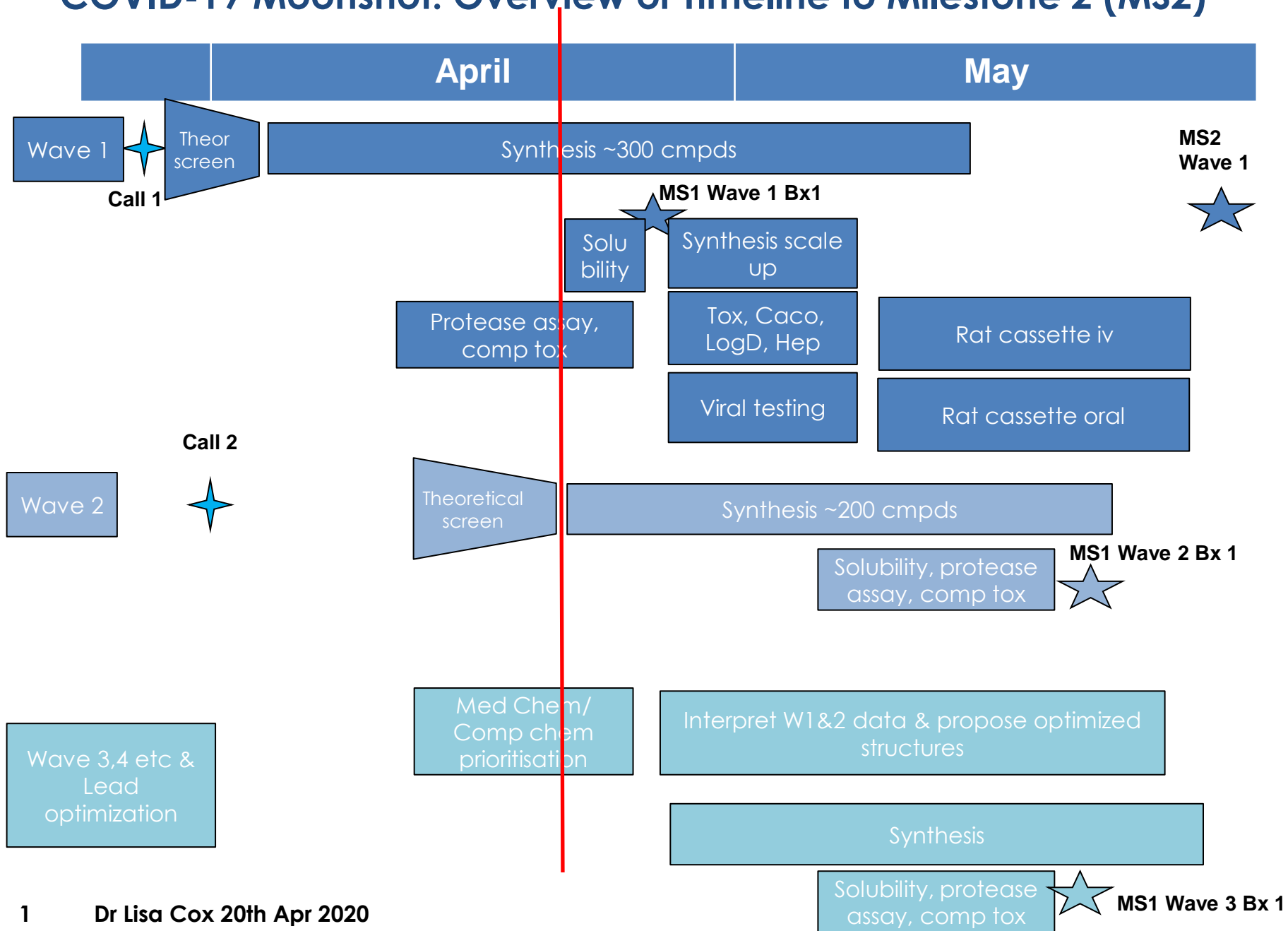


COVID-19 Moonshot: Overview of Timeline to Milestone 2 (MS2)



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 μ M & 100 μ 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

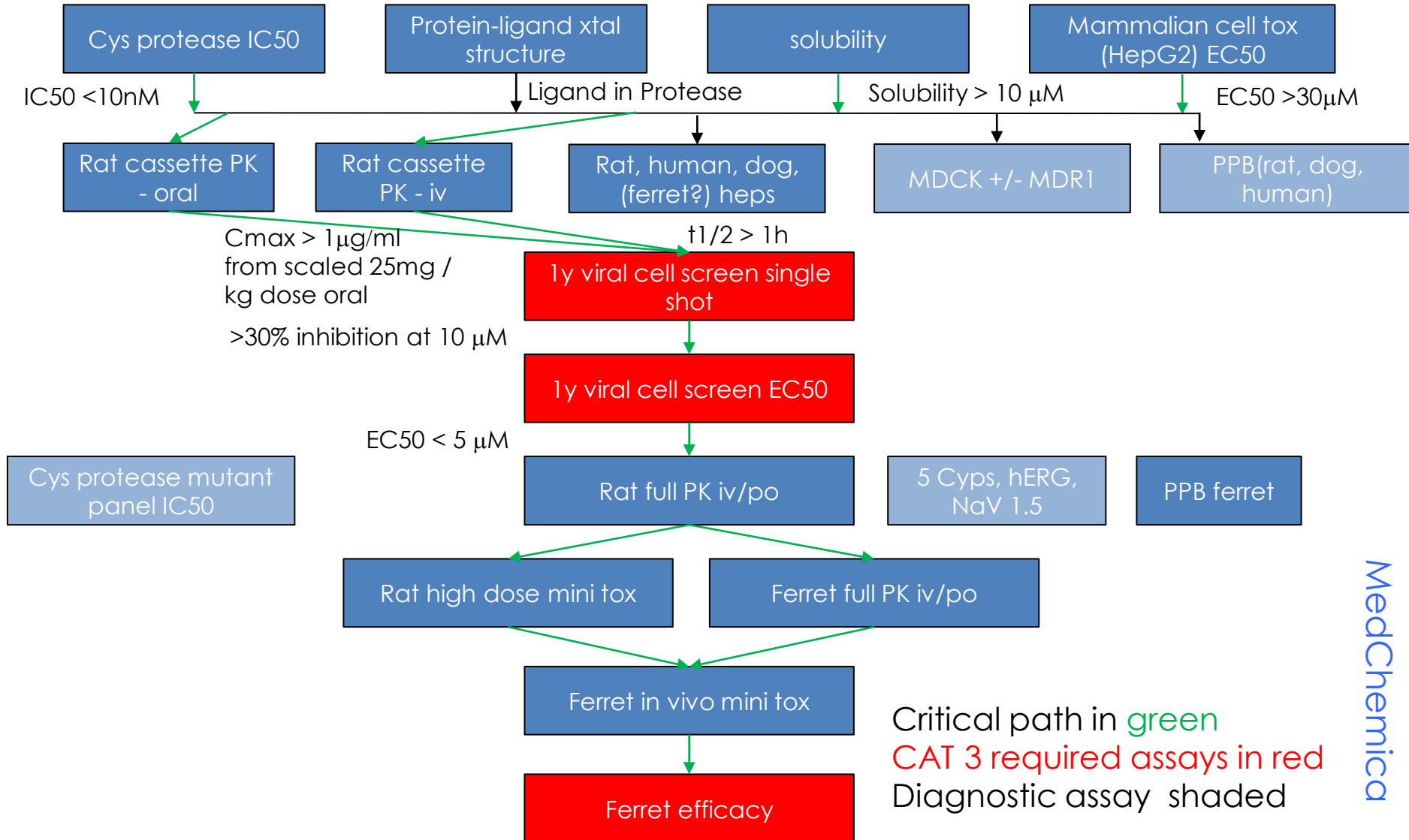
Rat cassette PK iv

Make/test status 20/4/20

Status summary 15 th April	Submitted		Tier 1	Synthesis/ sourcing by Enamine		Protease assay	
				In prep	Supplied	In queue/ shipment	Complete
Wave 1	2000	Tier 1	302	152 (due mid May)	160	79 (data due 23 rd Apr)	81
		Tier 2	313				
Wave 2	3500	Tier 1	tbc 16 th April	Bx1 (10 cmps?) due 5 th May?			
		Tier 2					
Wave 3	Date?						

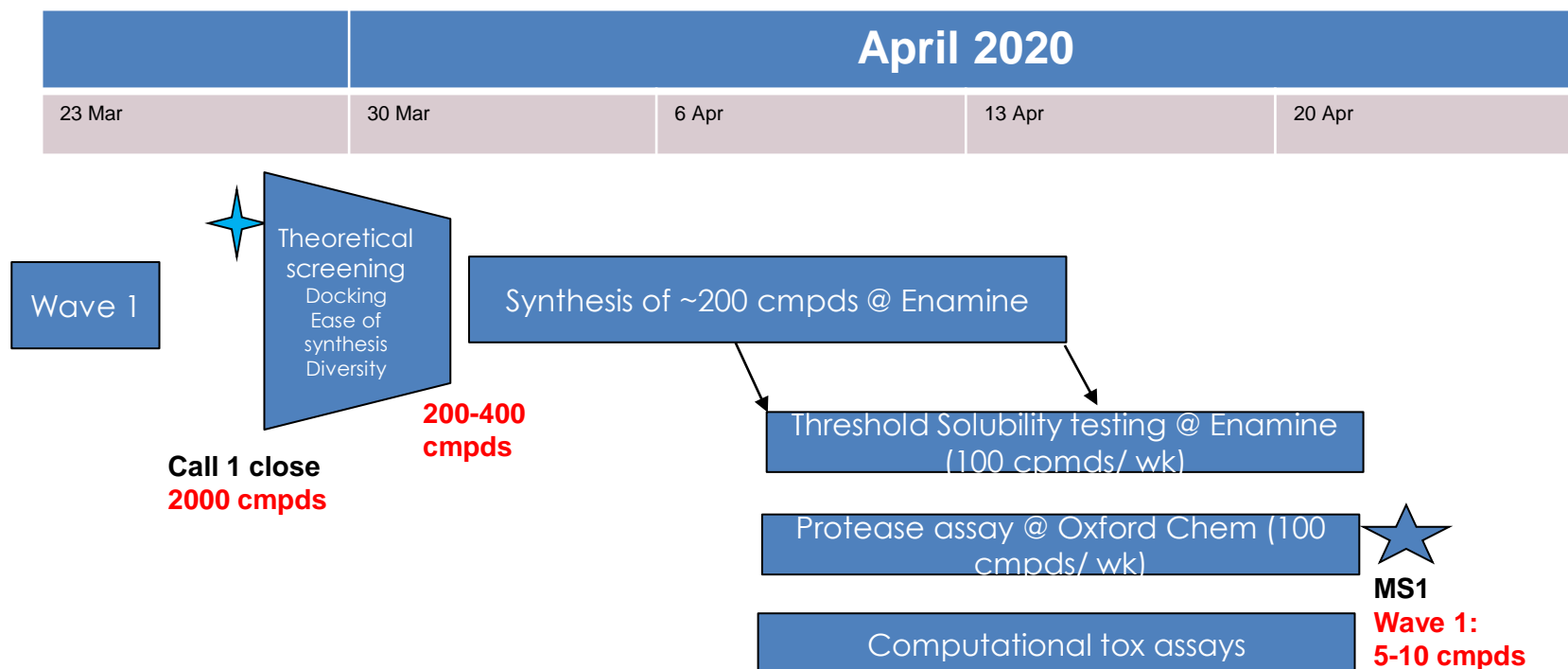
COVID-19 Cysteine protease testing cascade

Draft-2

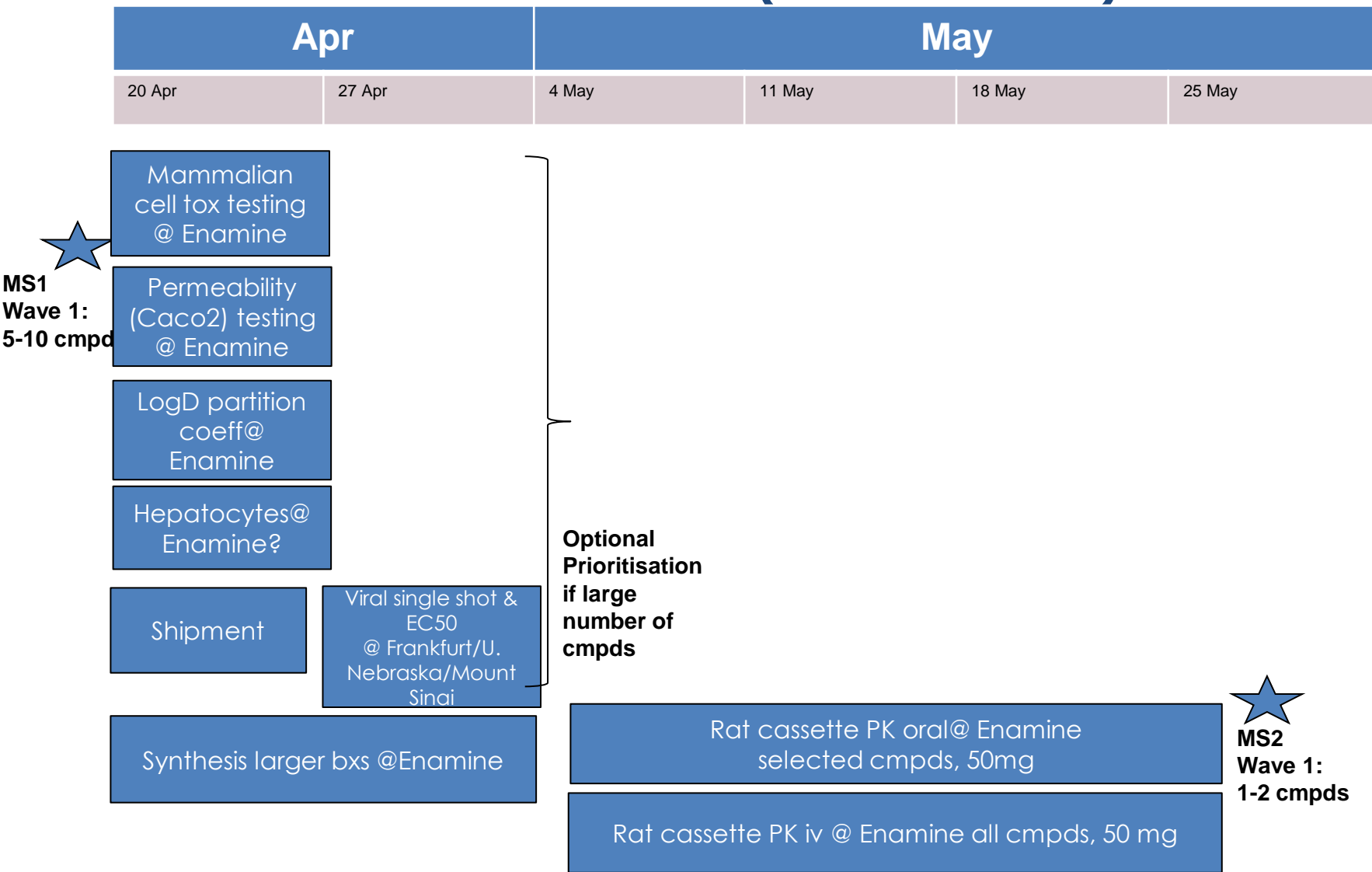


Supporting detailed timelines

Wave 1 Timeline to Milestone 1 (MS1) (detailed view)



Wave 1 Timeline MS1 to MS2 (detailed view)



Timeline from MS2

