Vivarium Planner – In-Invivo Study Portfolio

Study ID	Study Name	Future Occurrence # Starts	TBS	Survival Base (%)	Study Cycle Time Estimated	Min	Distribution	Max	Actual Study Start Dates & Constraints Type	Study Start Date	Study to Study Dependencies Predecessors
1	2-3 Rat Mthly OGTT	12	0.25	80	0.5	0.2	T(0.3,0.4,0.4)	0.4			

Room Requirements					Attributes		
Room	Estimated	Min	Distribution	Max	Animal Type	RU	PI
	0.25	0.25	0.25	0.25	Rat	CVMED	Aiello

1) Study Definition

Either input each individual study or simply block an entire room.

One will also define when and how long the room is required via either a fixed or variable duration

2) Occurrences

If the same study or room usage is occurring frequently you can develop a profile of how often a study or room request is generated

this helps reduce the # of studies that have to be explicitly defined

Ex: if 25% of a room is used for holding a month (across multiple studies) simply put the room number and that % in room requirements

3) Survival

The model can account for what % of the time a study does and doesn't occur. Use this to profile those studies that have a

Any values less than 100 will result in a fraction of the room required at a certain time which will increase total room requirements

4) Study Cycle Time

The simulation generates room requirements over time. Enter both the estimated / actual time a room is estimated to be required and

the range of time it could be required. When the model is run with variability the simulation will use the determine the length of time a room

is needed based on the parameters entered

5) Actual Study Start Dates & Constraints

Enter actual dates when a study and room will be required. For modeling purposes approximate time periods in a month are sufficient.

Thus, start of month, end of month, etc.. If unsure and want to have "model decide" when to release studies please contact Promodel to setup.

6) Study to Study Dependencies

Advanced feature - can used to develop a network between a series of studies when they are released in the model.

Simply enter the "study ID" that a predecessor study is associated with.

7) Room Requirements

Select the room and enter both the estimated and variable amount of room requirement as detailed in the comments.

8) Attributes

Various reports can be generated in the simulator illustrating room by Research Unit, Investigator, etc.

The team doesn't have a standard set of attributes at this time and recommends keeping it basic