--no clear evidence that lower [product] results in higher % cv

On the other hand, from xy plots, decreasing [peptide] below 0.5 (XG) or 1.25 (AU) uM does not appear to result in any significant increase in % activation (assuming your Km’s are roughly correct). I assume this is why you chose not to go lower than these.

Hence it appears preferable to not decrease [] further and increase the number of experiments should we need more accurate estimates of % activation. Note that the % cvs from both XG and AU are still not negligible for x=0.9. They are, however, acceptable.

It appears this is why XG went with 0.5uM.

Both can proceed with lowest [product]. [esp if AU believes the manual integration data is reliable]

--AU’s data appears more noisy (both inter and intraday) compared to XG. Comment on this and try to understand why.

AU -- Why should the % cv be smaller for manual integration? This is not clear and obviously needs to be explained. What is the issue with the software? We need to ensure that you can achieve the lower cv’s for manual integration in future experiments as well and that you understand why these are lower.

-- AU and XGs experiments do not seem to be aligned. E.g., AU did duplicate intraday, whereas XG did 3-4x intraday (in some cases).

--This needs to be aligned for all expts going forward. Please arrange it for all expts going forward.--

--XG – Activity cv % (% product?) is the relevant one. Why do you report 15.9 and 13.1% cvs on last slide? Those do not appear to be the relevant ones. Alok should report the same.

--important note: if your interday variation is greater than intraday due to sources of variation that are independent of % activation, then doing interday repeats may not be preferred. % activation is the main quantity of interest to us – not, e.g., absolute activity.

Do you believe this is the case (not just based on the recent data, but also based on your experience in the past)? From the data presented here, interday does not appear to be greater than intraday variation.