

**From:** [John West](#)  
**To:** [Scott Kirk](#)  
**Cc:** [Richard Chen](#); [Mark Pratt](#); [Christian Haudenschild](#)  
**Subject:** Re: Sprint 2 overview  
**Date:** Sunday, June 17, 2012 11:48:04 PM

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Scott, Mark, Rich, Christian,

For the next sprint I would like to propose three main accuracy goals:

- 1) Analyze the A/B comparison results (many still being generated) against regions of the genome being defined by the BAM crawler, e.g. directional coverage and raw Q-score depression, to create a quantitative view of what is causing the approx. 400k discrepancies when the same genome (Amy) is sequenced twice (e.g. by Broad). This should lead to a recommendation about what to prioritize in trying to reduce the error rate.
- 2) Identify all the locations in the genome which could lead to raw Q-score and/or coverage depression, e.g. homopolymers, di/tri/quad nucleotide repeats, palindromes / hairpins; then compare those with the discrepancies found in the A/B studies to further help understand the mechanisms underlying the discrepancies.
- 3) Investigate what the iteration cycle time can be for designing pull out oligo sets, getting them made, testing them, analyzing the results. Plan the first iteration of this and if practical, send out the first order for a custom pull-out set. With Shujun on board, I hope she can help us with this goal in particular.

I would recommend goals for completing the move, in some more detail. Can we have the servers moved and operational by the end of this sprint ? Will we have received the MiSeq and be operational with it ?

I recommend the next sprint be through Monday July 9th, since the prior week is partial and a number of people will be out. Also, I will be back from the UK then, and would like to hear about the results of the sprint in person, if possible.

I would be happy to discuss this in more detail, but wanted to get you my overall thoughts in time for the Monday meeting.

Thanks,

John

On Fri, Jun 15, 2012 at 3:36 PM, Scott Kirk <[scott.kirk@personalis.com](mailto:scott.kirk@personalis.com)> wrote:

Hi John,

Attached is the overview list for Sprint 2 for you to review. I walked through this with Rich already, but looks like 300 didn't work today for the three of us to review.

Let me know if you have any comments.

Thanks,  
Scott