OSIRIS Meetings: NIH visit to DFSC, 17-18 March 2015; Forest Park, GA

Updated needs list: (priority ranking in bold, 1-12)

1. Incorporate dye-specific detection thresholds **(6)**
2. Multiple peak labels in the plot view **(10)**
3. More user-friendly allele editing **(11)**
4. Fractional pull-up filter based on looking at the primary peak from an adjacent color channel **(2b)**
5. Artifact recognition for low-level peaks (crater combined with stutter) **(9)**
6. Define stutter in OSIRIS; be able to user DFSC stutter thresholds in OSIRIS, but do not filter stutter out so that stutter may be used in STRmix **(3)**
7. Add Y-Filer Plus, Qiagen Kit, Body Fluid ID kits to OSIRIS software portfolio **(12)**
8. Two stutter positions (i.e., -2, -4 etc.) are generated at certain Y-filer and autosomal STR loci (expanded kit loci); how will OSIRIS handle these multiple stutter positions? **(5)**
9. Clearly defined rules and definitions for alleles at the edge of the core versus extended loci **(1)**
10. Ability to delete a sample (ie. sample and ladder) without having to reanalyze **(4)**
11. Different artifact labels other than just A (‘p’ for pullup, ‘s’ for stutter, etc.) **(5)**
12. Connect primary pullup to the pullup **(2a)**
13. Fix needed: Amelogenin will sometimes label an X as a 1 and the Y as a 2 **(8)**