

IARC Meeting 54: April 27th 2020: minutes

The meeting commenced at 10:30 UTC. AC, MO, MC and WL were in attendance. Corey Watson also attended.

1. The minutes of Meeting 53 were approved.
2. Discussion continued to try to establish principles by which other submitted lambda sequences could be judged by the IARC. The view was expressed that cloning and sequencing may be necessary for certainty of light chain genes. CW's long read genomic sequencing data will be very valuable, and should be checked against inferences in submission S00028. CW's data includes sequences from 2 Europeans, 4 Africans and 2 Asians. A concrete step that the IARC could take would be to try to resolve the major 5' truncations of some sequences. AC will prepare a list of truncated sequences for the next meeting. CW noted that fosmid data is available to extend a number of these sequences. AC will email CW with a list of those sequences requiring attention. Once again the view was expressed strongly that any remaining 3' uncertainties should be dealt with by software rather than being artificially 'resolved' in a database.
3. Once again the merits of a manuscript were discussed, and this may be the only way that software developers can be convinced that their tools still require development. Such a manuscript would need to highlight the problems that will be faced in the absence of greater knowledge of the light chain repertoire, and resolution of the problem with truncated sequences. Studies of mutation levels might be a good way of highlighting the problem. The IGLV2-14 would be a good example, as well as the IGKV3-19*02 sequence, recently described by CW's lab and having four differences to the *01 allele. Affects on analysis of gene usage and clonality could also be documented. A google doc will be started as soon as possible.
4. The next meeting (Meeting 55) will be held on Tuesday May 26th at 10:30 UTC.

The meeting ended at 11:30 UTC.