Minutes of IARC meeting 85, Nov 1st, 2021

In attendance: Ayelet Peres, Gur Yaari, Andrew Collins, Martin Corcoran, William Lees, Mats Ohlin, James Heather (guest)

1. Approval of minutes of meeting 84
   Approved

2. Publication of recently affirmed sequences & submission to IUIS
   Novel alleles will be released in OGRDB and submitted to IUIS.

3. New release of VDJbase
   a. Additional alleles, lost in the Feb/March release of VDJbase are now properly inferred again
   b. IGHV3-30*19_T189C is however absent in the most recent release (Pipeline 6/6/21) of VDJbase, a consequence of a tool bug. Instead IGHV3-30*19 is featured with mutational patterns indicative of the presence of a variant allele that differs by one SNP from IGHV3-30*19.

   Discussion. Bug fixes are in process to correct the computed output. MC offers to run complementary checks using IgDiscover in the future to support findings with other tools (like TIgGER).

   a. novel alleles to be submitted to OGRDB by the authors
   b. some inferred alleles might represent short database entry artifacts (i.e. they are named as a new allele but in reality represents an extension of a short allele (IGHV1-69*02, IGHV5-51*03, etc.)

   Discussion

5. Followup: The problem of identical sequences associated to different/duplicated genes in germline gene databases, the impact of multiple assignments in sequence analysis and VDJbase's representation of genotypes/haplotypes, and the concept of germline gene subgroups even in well-studied organisms
   AP presents new analysis of similarity and grouping of human IGHV alleles.
   Discussion.

6. Next meeting
   Wednesday November 17th, 2021 at 11.00 UTC