

## 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).

### 4. Novel alleles inferred by Yang et al.

(<https://doi.org/10.3389/fimmu.2021.739179>)

- 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