

Agenda of IARC meeting 94, Feb 28th, 2022

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

1. Approval of minutes of meeting 93

Approved

2. Update on the mouse germline F1 manuscript (AC)

AC described the process moving forward to enable submission to Front Immunol. The Balb/c germline gene set is now available in OGRDB.

3. Update on the IG receptor germline gene discovery manuscript (WL)

WL described recent development of the manuscript.

4. Submission of novel alleles to ENA

Some alleles need further confirmation but several have been submitted to ENA.

5. Update of VDJbase

WL updated on a new run addressing the matter of missing alleles as they that dual calls and thus are removed in the analysis process. A new version will be available in the immediate future.

6. Update on assessment of spurious features of OGRDBstats plots summarizing the composition of sequences contributing to a particular inference

Plots will be updated with new version of VDJbase

7. Status submission of IGHV alleles to ENA OGRDB

- **IGHV4-30-4*01 A70G A107G** (P1_I41) - allele sequence submitted to ENA
- **IGHV3-15*01 A313T C317G** (P1_I64)
- **IGHV1-69*06 G240A** (P1_I48) - allele sequence submitted to ENA (<https://www.ebi.ac.uk/ena/browser/view/ERR8668128>)
- **IGHV4-59*01 G267A** (P1_I39) - allele sequence submitted to ENA (<https://www.ebi.ac.uk/ena/browser/view/OV936603>)

(<https://www.ebi.ac.uk/ena/browser/view/ERR8668127>)

- **IGHV3-43D*04 G4A** (P1_10) - allele sequence submitted to ENA (<https://www.ebi.ac.uk/ena/browser/view/ERR8668121>)
- **IGHV3-30*04 C201T G317A/IGHV3-30*18 G113C C114T** (P1_I70)
- **IGHV4-30-2*01 G70A** (P1_I74)
- **IGHV4-39*01 G315A** (P1_I60) - allele sequence submitted to ENA
- **IGHV2-70*04 A14G** (P1_I5)
- **IGHV4-61*01 A41G** (P1_I23)
- **IGHV3-66*02 G303A** (P1_I28)
- **IGHV3-30*02 G49A** (P1_I47)

8. TCR inferences - submission to ENA/OGRDB

Data from VDJbase P4 is available for submission to ENA. AP will address this matter.

9. TCR IARC - moving forward

Efforts will be made to establish a TCR IARC at the AIRR-C meeting in May (JH)

10. Genomic and transcriptomic data

CW summarized the situation with genomic data and how to assess and have them approved by IUIS. Discussion on if/how IARC should be involved in the development of an approval process, setting criteria for genomic data, and approval itself. Human genomic data combined with AIRR-seq data will be incorporated into VDJbase. Human germline gene sets can be published in OGRDB.

11. Next meeting

March 14th, 2022 at 10.00 UTC