

Minutes of IARC meeting 95, March 13th, 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 94

Approved

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

Discussion

3. Reference set and enhancement by integration of AIRR-C/genomic data sets

Aim to provide a set of alleles that does not contain alleles that are never seen. Establish rules of alleles to be incorporated. Include alleles defined by AIRR-Seq data and genomic data. Pilot study integrating such data types should be initiated on selected samples. That will provide a gold standard tool for tool evaluation. WL creates a first report of alleles that are currently available within approx 2 weeks, to be discussed in two weeks.

4. Update of VDJbase

Removal of duplicate sequences has improved performance of RabHit.

5. Functional groups reference book - update

Comparison of data with other approaches is in process. Some thresholds have been modified. To be discussed at the next meeting. Application with respect also to non-naïve data is underway.

6. Status submission of IGHV alleles to ENA and OGRDB

Multiple novel germline genes are being processed for submission.

7. TCR inferences - submission to ENA/OGRDB

Data from VDJbase P4 study are available for submission to ENA. Submission to ENA will be made in the immediate future.

8. Next meeting

March 28th, 2022 at 10.00 UTC