

## Minutes of IARC meeting 106, Sept 27th, 2022

In attendance: Ayelet Peres, Martin Corcoran, William Lees, Mats Ohlin, James Heather

### 1. Approval of minutes of meeting 105

Postponed until next meeting

### 2. IARC representative at the AIRR-C Exec SC & WG/SC Co-leads meeting Oct 20, 2022.

As MO cannot attend the upcoming AIRR-C Exec SC & WG/SC Co-leads meeting, it was decided that IARC will be represented by WL.

### 3. Submission of data for IGLV2-14*i*02 (IGLV2-14\*04) to ENA/GenBank - update.

Submission needs amendment and is pending action (AP).

### 4. Submission of data for additional P1 sequences in VDJbase not yet affirmed (e.g. IGHV3-30\*04 C201T G317A (IGHV3-30\*18 G113C C114T) (P1\_I70), IGHV3-13\*01\_G290A\_T300C (P1\_10), IGHV4-61\*01 A41G (P1\_I23)) to ENA/GenBank update

Submissions need amendment and are pending action (AP).

### 5. Consideration of the 3'-end of IGLV7-46*i*01

IGHV7-46*i*01 was originally considered at IARC meetings 57 and 58 and affirmed as a level 0 sequence. Following its inclusion into IMGT based on genomic sequence data it was elevated to level 1 at IARC meeting 102. The affirmed 3'-end was however never considered.

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>IGLV7-46i01
CAGGCTGTGGTGA CT CAGGAGCCCTCACTGACTGTGTCCCCAGGAGGGACAGTCA
CTCTCACCTGTGGCTCCAGCACTGGAGCTGTCACCAAGTGGTCATTATCCCTACTGGT
TCCAGCAGAAGCCTGGCCAAGCCCCCAGGACACTGATTTATGATACAAGCAACAAAC
ACTCCTGGACCCCTGCCCGGTTCTCAGGCTCCCTCCTTGGGGGCAAAGCTGCCCT
GACCCTTTCGGGTGCGCAGCCTGAGGATGAGGCTGAGTATTACTGCTTGCTCTCCT
ATAGTGGTGCTCGG
>IGLV7-46*01_IMGT
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caggctgtggtgactcaggagccctcactgactgtgtcccaggagggacagtcactctcacctgtggctccagcactgga  
gctgtcaccagtggtcattatccctactggtccagcagaagcctggccaagccccaggacactgatttatgatacaagca  
acaaacactcctggacacctgccggttctcaggctccctccttgggggcaaagctgccctgaccctttcgggtgcgagcc  
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>IGLV7-46\*02\_IMG1

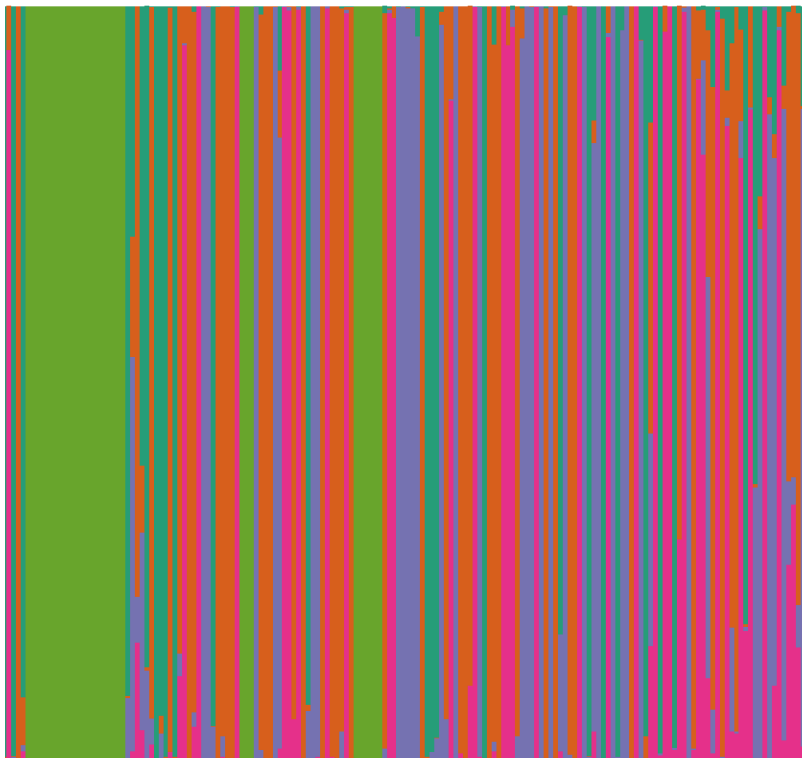
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>IGHV7-46\*04\_IMG1

caggctgtggtgactcaggagccctcactgactgtgtcccaggagggacagtcactctcacctgtggctccagcactgga  
gctgtcaccagtggtcattatccctactggtccagcagaagcctggccaagccccaggacactgatttatgatacaagca  
acaaacactcctggacccctgccggttctcaggctccctccttgggggcaaagctgccctgaccctttcgggtgcgagcc  
tgaggatgaggctgagtattactgctgtctcctatagtggtgctcgg

151 200  
AGGACACTGATTTATGATACA . . . . . AGCAACAA

201 250  
ACACTCCTGGACC CCT . . . GCCCGGTTCTCAGGCTCCCTC . . . . . CTTG



Skä

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IGLV7-46*01      CAGGCTGTGGTGACTCAGGAGCCCTCACTGACTGTGTCCCCAGGAGGGACAGTCACTCTCACCTGTGGCT
IGLV7-46*01_IMG T CAGGCTGTGGTGACTCAGGAGCCCTCACTGACTGTGTCCCCAGGAGGGACAGTCACTCTCACCTGTGGCT
IGLV7-46*02_IMG T CAGGCTGTGGTGACTCAGGAGCCCTCACTGACTGTGTCCCCAGGAGGGACAGTCACTCTCACCTGTGGCT
IGHV7-46*04_IMG T CAGGCTGTGGTGACTCAGGAGCCCTCACTGACTGTGTCCCCAGGAGGGACAGTCACTCTCACCTGTGGCT

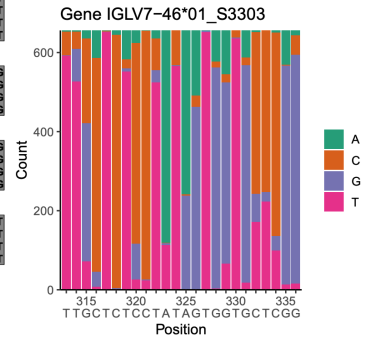
IGLV7-46*01      CCAGCAGCTGGAGCTGTCCACCACTGGTTCATATCCCTACTGGTTCACAGCAGAAGCCTGGCCAAAGCCCCAG
IGLV7-46*01_IMG T CCAGCAGCTGGAGCTGTCCACCACTGGTTCATATCCCTACTGGTTCACAGCAGAAGCCTGGCCAAAGCCCCAG
IGLV7-46*02_IMG T CCAGCAGCTGGAGCTGTCCACCACTGGTTCATATCCCTACTGGTTCACAGCAGAAGCCTGGCCAAAGCCCCAG
IGHV7-46*04_IMG T CCAGCAGCTGGAGCTGTCCACCACTGGTTCATATCCCTACTGGTTCACAGCAGAAGCCTGGCCAAAGCCCCAG

IGLV7-46*01      GACACTGATTTATGATACAAGCAACAACACTCCCTGGACCTGCCCCGGTTCTCAGGCTCCCTCCTTGGG
IGLV7-46*01_IMG T GACACTGATTTATGATACAAGCAACAACACTCCCTGGACCTGCCCCGGTTCTCAGGCTCCCTCCTTGGG
IGLV7-46*02_IMG T GACACTGATTTATGATACAAGCAACAACACTCCCTGGACCTGCCCCGGTTCTCAGGCTCCCTCCTTGGG
IGHV7-46*04_IMG T GACACTGATTTATGATACAAGCAACAACACTCCCTGGACCTGCCCCGGTTCTCAGGCTCCCTCCTTGGG

IGLV7-46*01      GGCAAAGCTGCCCTGACCCCTTTCGGGTGCCAGCCTGAGGATGAGGCTGAGTATTACTGCTTGCTCTCCT
IGLV7-46*01_IMG T GGCAAAGCTGCCCTGACCCCTTTCGGGTGCCAGCCTGAGGATGAGGCTGAGTATTACTGCTTGCTCTCCT
IGLV7-46*02_IMG T GGCAAAGCTGCCCTGACCCCTTTCGGGTGCCAGCCTGAGGATGAGGCTGAGTATTACTGCTTGCTCTCCT
IGHV7-46*04_IMG T GGCAAAGCTGCCCTGACCCCTTTCGGGTGCCAGCCTGAGGATGAGGCTGAGTATTACTGCTTGCTCTCCT

IGLV7-46*01      ATAGTGGTGCCTCGG
IGLV7-46*01_IMG T ATAGTGGTGCCTCGG
IGLV7-46*02_IMG T ATAGTGGTGCCTCGG
IGHV7-46*04_IMG T ATAGTGGTGCCTCGG

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Furthermore, the data used for inference is rather mutated and in addition poorly support the 3'-end of the allele. As a consequence of the high mutation frequency of the sequences of the data set related to this inference and the uncertainty of the 3'-end, this sequence is returned to level 0 (it has never been released to the public part of OGRDB). It was decided that the inferred allele at the present stage is not released into the public domain of OGRDB based on supporting genomic evidence (GenBank: OL352718) of data of an unrelated subject. To set a precedent we will discuss this matter at a later meeting.

**6. Discussion on the document “Inferred Allele Review Committee - Objectives and Approach” and possible future association of IARC to the IG/TR/MH Nomenclature Sub-Committee (SC) of the IUIS Nomenclature Committee.**

Edits were discussed. The present version will be sent by MO to FB to bring the process of possible future association of IARC to the IG/TR/MH Nomenclature Sub-Committee forward.

**7. Discussion on the document “IARC - Notes on development of human IGH germline sets that are optimized for use in AIRR-seq analysis”.**

Discussion. An updated document will be established (MO).

**8. Next meeting**

Oct 19th at 10.00 UTC