

# AIRR Community Accepted Data Elements

1.

## Study Subject Diagnosis

- Study title
- Study type
- Study inclusion/exclusion criteria
- Grant funding agency
- Lab name
- Contact information
- Contact of person uploading data
- Lab address
- Relevant publications (identifiers)
- Subject ID
- Animal, human or synthetic
- Sex
- Age
- Age event
- Ancestry population
- Ethnicity
- Race
- Species name
- Strain name
- Linked to other subject?
- Type of link
- Relevant Clinical History
- Study Group Description
- Disease(s)
- Disease stage
- Process type
- Immunogen/agent

2.

## Sample Processing

- Biological sample ID
- Sample type
- Anatomic site/source
- Disease state of sample
- Sample collection time (relative to T0)
- Collection time event (T0)
- Source (from commercial)
- Experiment Sample
- Tissue processing
- Cell isolation/enrichment procedure
- Processing (sample)
- Cell subset
- Cell subset phenotype
- Single cell or bulk?
- How many cells in experiment?
- Number of cells per sequencing reaction

3.

## Nucleic Acid Processing and Sequencing

- Target substrate (DNA or RNA)
- Library generation method
- Library generation protocol
- Target locus for PCR
- Forward PCR primer location
- Reverse PCR primer location
- Forward primer sequences
- Reverse primer sequences
- Whole vs. partial sequences
- Heavy vs. Light vs. paired
- Amount of template (ng)
- Total reads
- Total reads passing QC
- Calibrator and other internal controls
- Total reads passing QC
- Protocol ID(s)
- Sequencing platform
- Read length(s)
- Sequencing facility
- Batch number
- Date of Sequencing run
- Sequencing kit

4.

## Raw Data

- File containing the raw sequences

5.

## Data Processing

- Names of software tools
- Version numbers
- Paired read assembly
- Quality thresholds
- Primer match cut-offs
- Collapsing method
- Data processing protocols (free text)

6.

## Processed Sequences with Annotations

- V(D)J germline reference database
- V gene
- D gene
- J gene
- CDR3 nucleotide sequence
- CDR3 amino acid sequence
- Read count