

Vidjil: High-throughput analysis of immune repertoire

Supplementary Material

Installation and running instructions

Web application usage, with server. Two options are provided to run Vidjil.

- The test server <http://app.vidjil.org> is run by Université de Lille, SIRIC ONCOLille and University of Bristol as a service for the community. As disk space is shared by all the users, we set a limit of 50 GB per user. The detailed help of the web application, from the point of view of the user, is in the file `doc/browser.org`¹.
- The server can also be installed on a private network. Detailed instructions on how to install the server are provided in `doc/server.org`.

Standalone usage, without server. It is also possible to run locally the algorithm and the visualization, without connecting them to a server. The algorithm (C++) can be run from command line. Detailed compilation and run instructions are found in `doc/algo.org`. The algorithm outputs a `.vidjil` file that can directly be fed to the visualization (opened by loading the file `browser/index.html` in a web browser) in the `import/export` menu.

Test data

The test data can be found at <http://vidjil.org/data>. Vidjil was launched on the dataset using the following parameters.

Patient L3. `-3 -z 100 -r 1 -g germline`

Patient L4. `-3 -z 100 -r 1 -g germline -i`
(note the additional `-i` for incomplete recombinations).

¹These files are provided in the code archive sent with the submission, as well as on <http://www.vidjil.org>. Moreover, they are available online on the public git server.