1. **Purpose**.

This document describes the functionality and operation of the website "Haplotype generator" provided by ETRL. The website can generate haplotypes from given DNA HLA typing of a patient and his or her relatives.

2. **How to use the website.**

You can either fill in the form manually with information of the patient- and his or her relatives, or you can upload a file that contains this information.

DNA typing should always contain A-, B and DRB. The DNA typing can be separated by space, comma or both.

2.1 Enter data manually.

The identifier and DNA typing are mandatory, the other fields are optional. After filling in the form press [Generate] to generate a family tree.

2.2 Upload a file.

Press the button [Bestand kiezen] or [Browse] (Step 1). The text on this button can vary, depending on your browser and language setting. Next choose [Upload] (Step 2). The form will be filled with data from the uploaded file. Pressing [Generate] (Step 3) will generate a family tree.

2.2.1   Description of the file.

The file is a text file where the items are separated by a '|'. The items are mapped in this order:

- Relation
- Name
- Gender
- Date of birth
- Identifier
- DNA typing

The first record contains the patient data.

3. **The result.**

On the bottom of the screen the result is visible. Each haplotype can be distinguished from the other by its colour.

Sometimes it is not possible to generate a full haplotype because all types are equal or not all loci are provided in the DNA typing. In that case a warning will show:

Warning: not all loci are destinctive.

In that case the locus will not have a colour and the option for number of digits will be 0 (zero).

4. Numer of digits.

It is possible to change the way the program will use the DNA typing to generate the family tree. By default the program will look at the first four digits, but if you want you change this setting for each locus.

5. Export.

Pressing the [Export csv] button will cause the program to export results to a <TAB> delimited .csv file.

Pressing the [Export xml] button will cause the program to export results to a XML file.

If you want to keep the colors and are used to working excel, we recommend that you select the result area, copy the data and paste it in your excel sheet.

6. URL.

The URL is www.etrl.org/FamTree/default.aspx.

7. Contact.

For technical questions or feedback, please contact:

Gijs Wams, IHB.ICT@lumc.nl. Telephone +31 - 71 - 526 5029.