

BONAPARTE DVI SYSTEM

# IMPORTING PROFILES AND CREATING PEDIGREES USING THE WEB INTERFACE

BONAPARTE QUICK GUIDE

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# How to Import Profiles and Create Pedigrees Using the Web Interface

## WHAT YOU NEED

In order to proceed with the instructions provided in this manual, you need

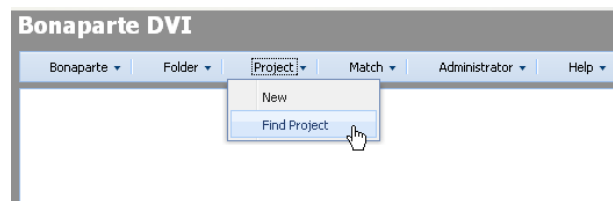
1. Firefox 3.0.xx web browser
2. Java 1.6 enabled
3. User ID and password for the Bonaparte System (after registration, your credentials will be emailed to you)

## STEP BY STEP INSTRUCTIONS

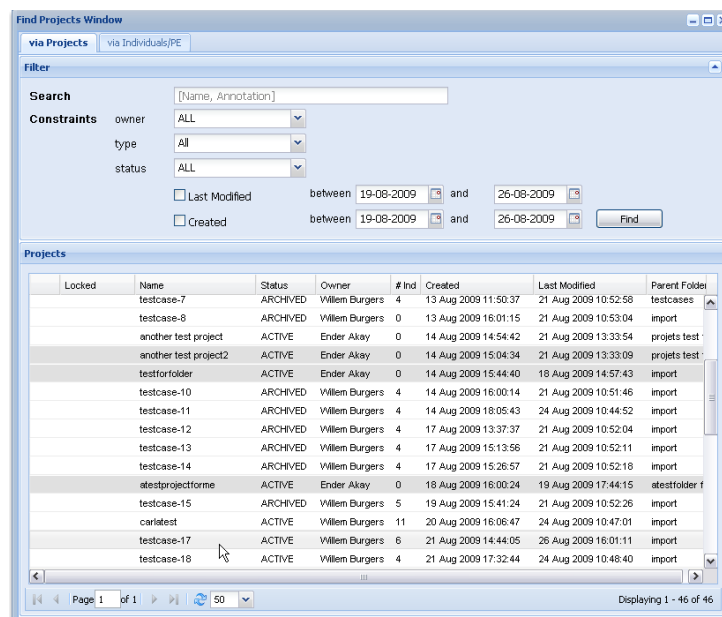
Start your browser and go to <https://www.bonaparte-dvi.nl>. You need to log on using the credentials that were emailed to you.

# 1.

Open the project we created for you; usually you will find a shortcut on your desktop (the 'work area'). Alternatively go to menu item "Project" → "Find Project":



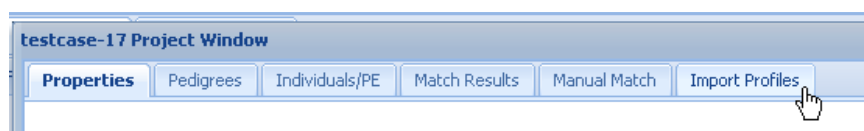
Then the 'Find Projects Window' opens:



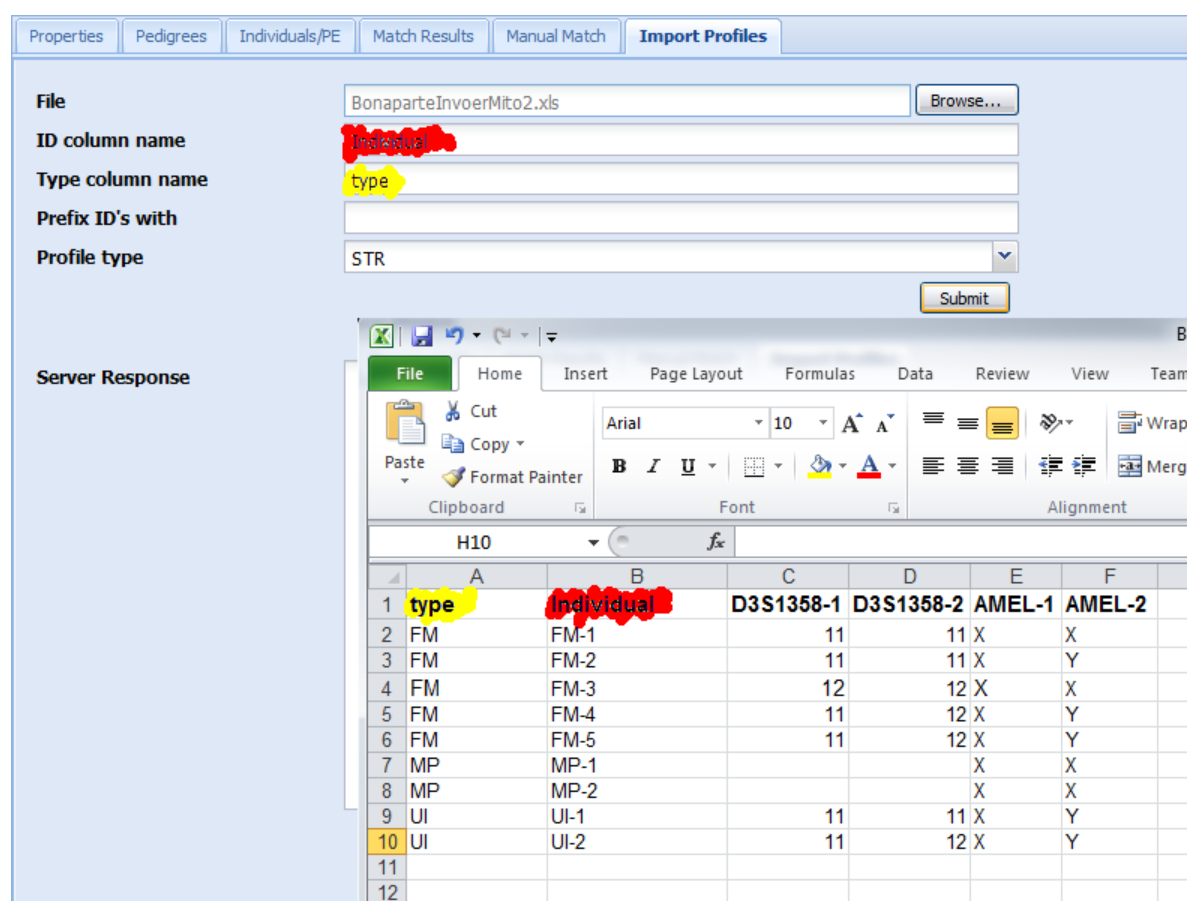
Double click the project you want to import the profiles into (here 'testcase-17').

## 2.

In the project window; select the tab 'Import Profiles':



Now a window appears that allows you to import data using Microsoft Excel files:

A screenshot showing the 'Import Profiles' window in the software. The window has a 'File' field containing 'BonaparteInvoerMito2.xls' and a 'Browse...' button. Below it are fields for 'ID column name' (containing 'Individual'), 'Type column name' (containing 'type'), 'Prefix ID's with', and 'Profile type' (set to 'STR'). A 'Submit' button is at the bottom right. Below the window, an Excel spreadsheet is shown with a table of data. The table has columns A through F and rows 1 through 12. Row 1 is highlighted in yellow, and the cell 'Individual' in row 1, column B is highlighted in red. The spreadsheet shows various identifiers and their corresponding values in columns C and D, and markers in columns E and F.

	A	B	C	D	E	F
1	type	Individual	D3S1358-1	D3S1358-2	AMEL-1	AMEL-2
2	FM	FM-1	11	11	X	X
3	FM	FM-2	11	11	X	Y
4	FM	FM-3	12	12	X	X
5	FM	FM-4	11	12	X	Y
6	FM	FM-5	11	12	X	Y
7	MP	MP-1			X	X
8	MP	MP-2			X	X
9	UI	UI-1	11	11	X	Y
10	UI	UI-2	11	12	X	Y
11						
12						

The Excel file **must** contain a 'type' field and an 'identifier' field, but you can specify what they are actually called (by default the identifier field is called 'Individual' and the type field is called 'type'). The Identifier field must contain a unique identifier for each individual. The 'type' column specifies what role this individual has within a pedigree; a type is one of

Type	Meaning	Color Coding	Profile?
<b>MP</b>	Missing Person	Red	Only AMEL
<b>UI</b>	Unidentified Individual	Yellow	Yes
<b>FM</b>	Family Member	White	Yes
<b>NI</b>	Non Informative	White + black cross	Only AMEL

Profiles are specified using two columns (one for each allele from the genotype) per locus (there is no limit on the number of loci). The columns for the genotypes are of the form LOCUSNAME-1,LOCUSNAME-2 where LOCUSNAME is one of

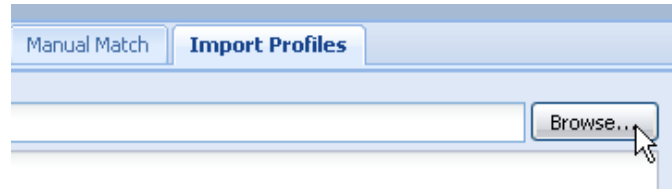
Locus
<b>D3S1358</b>
<b>VWA</b>
<b>FGA</b>
<b>D8S1179</b>
<b>D21S11</b>
<b>D18S51</b>
<b>D5S818</b>
<b>D13S317</b>
<b>D7S820</b>
<b>D16S539</b>
<b>TH01</b>
<b>TPOX</b>
<b>CSF1PO</b>
<b>D2S1338</b>
<b>D19S433</b>
<b>AMEL (Required to determine gender)</b>

Genotypes can be specified as (A,B), (F,B),(B,F),(F,F),( ) where A, B alleles (so the value "10" and "11" for example), F the character "F" which means FAULT (missing/drop-out allele ) or empty which means that this locus is not typed for this individual. An "F,F" genotype is used in matching, while a "" (empty) genotype is not.

The 'Prefix ID's with' field is used to specify a character sequence to be added to all individual names. This way you can import the same data several times without overwriting.

In the 'Profile Type' drop down list you select the appropriate DNA type.

To select the Excel file, click the "Browse" button:

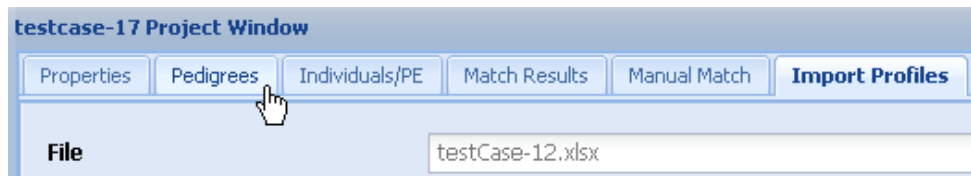


and then subsequently submit the file using the "Submit" button:

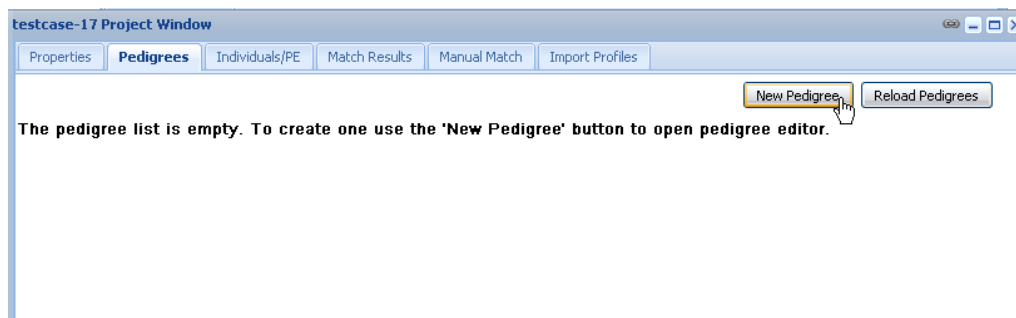
<b>File</b>	BonaparteInvoerMito2.xls	Browse...
<b>ID column name</b>	Individual	
<b>Type column name</b>	type	
<b>Prefix ID's with</b>		
<b>Profile type</b>	STR	
		Submit

### 3.

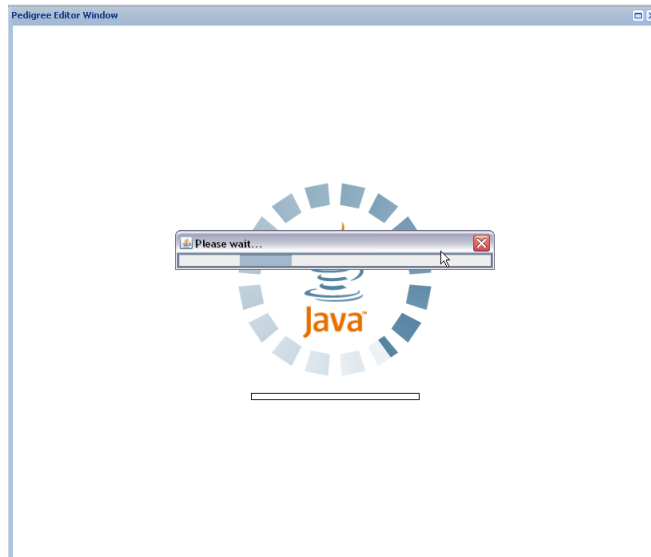
At this point the individuals are created on the system, now you can create pedigrees. In order to create a pedigrees go to the 'Pedigrees' tab:



and click 'New Pedigree' there:



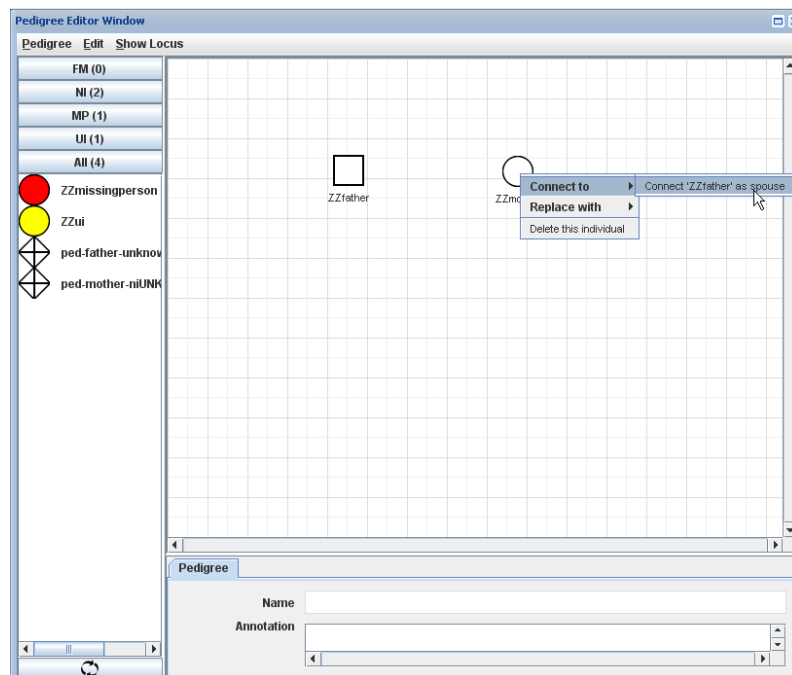
The system starts loading the pedigree editor (which is a java applet) :

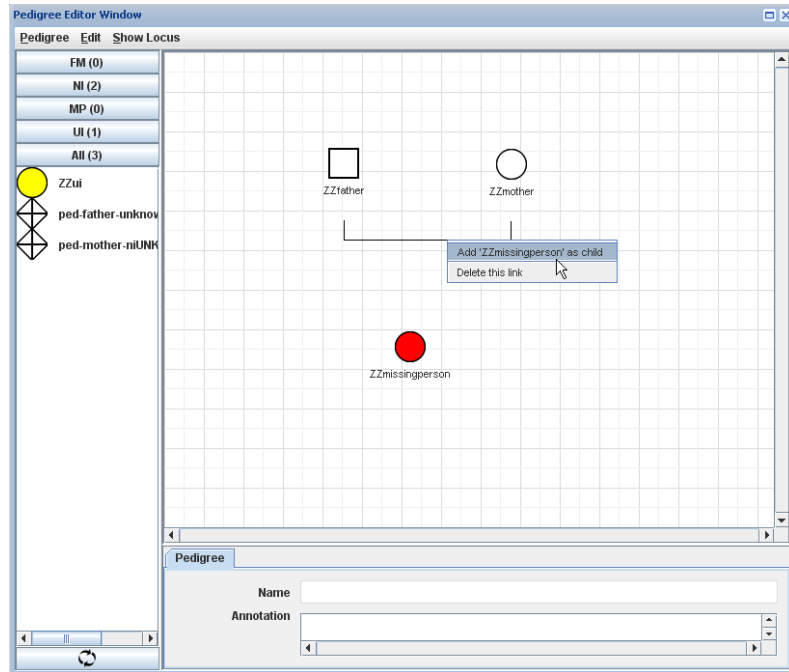


If this is the first time that you are using the applet, you need to approve it.

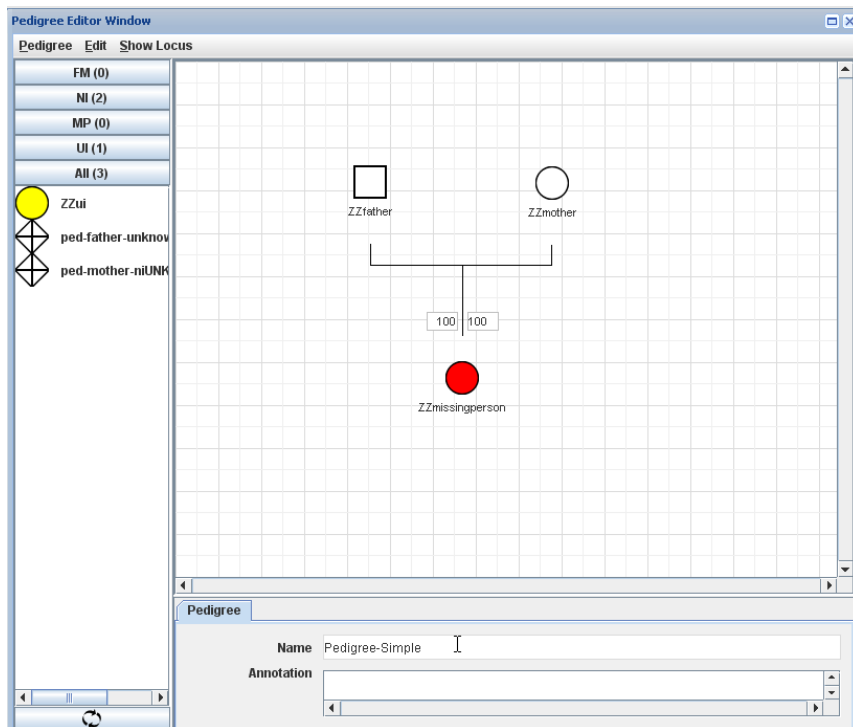
## 4.

When the pedigree editor has finished loading, you can start building a pedigree; drag items from the left hand side stack list to the composition area, right click one of the items to see connection options:



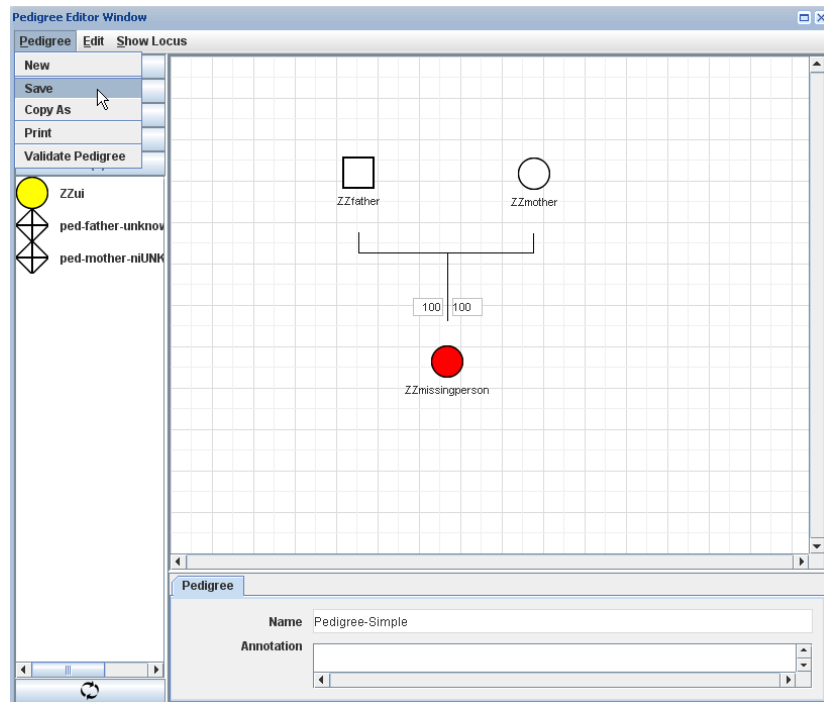


(Note that children are added by right-clicking the link between parents)



The numbers in the text field to the left and right of the missing person denote the probability that the relation is true; the left number means probability is 100% that the left relation (which is father-child) is true, the right one means the mother-child relation is true with 100% probability. (Note that if the father is positioned right of the mother than the right number denotes the father-child probability).

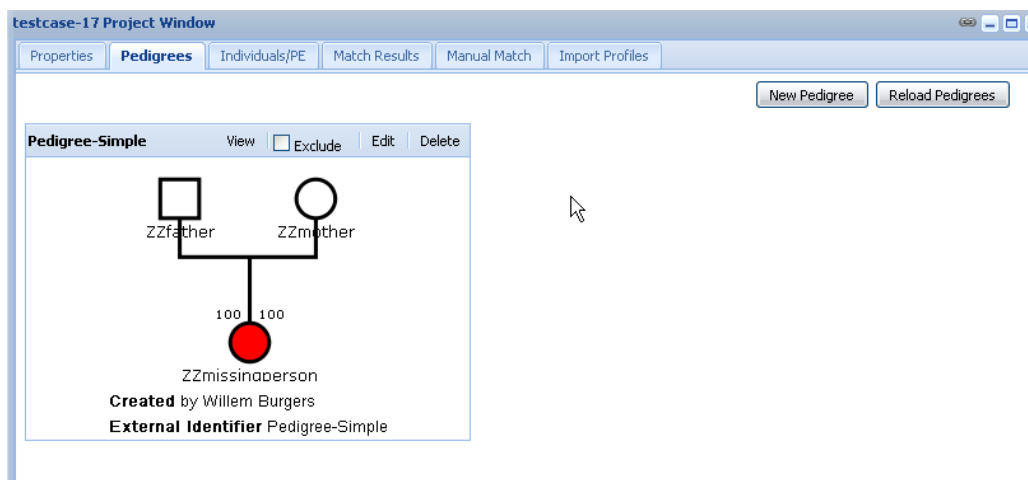
When you are done building the pedigree, enter a name, and choose "Pedigree" → "Save" from the menu:



You can now close the pedigree editor by clicking the button in the upper right corner:



The 'Pedigrees' tab reloads and shows the newly added pedigree:



The pedigree can now be used in matching.