QuercusMap Guide





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Version 2.2

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Introduction

QuercusMap allows to manage molecular and phenotypic data used for the construction of genetic maps or for detecting QTLs. The software was developed for oaks, where offsprings of the mapping pedigree are vegetatively propagated. All along this tutorial, many capture screens allow to visualize software's options.

1- Software Organisation & Technical information

* Technical information:

This software was tested with <u>mozilla firefox</u>. The databases (Test and Real) are managed by PostgreSQL.

* First stage:

The first step is to log in.



The login is composed with the first letter of your first name + your surname with the first letter capitalized (ex: AKremer). Uppercases are considered for the login and password.

Of course we must make sure your administrator create your account. Temporary, you have to choose the database where you are working. By default, you are connected on test database.

* More information

All the fields to which a red asterisk "*" is attached, indicate that the fields have to be filled.

2- Routing

This scheme depicts the interrelationship between the different data sets contained in the database.



In case you want to insert a new offsring:

The location, pedigree, parents have to already exist in the database.

Go to "Pedigree"."Offsprings"."Add Offsprings".

In case you want to insert a cutting:

The location and the ortet have to already exist in the database.

Go to "Pedigree"."Cuttings"."Add Clones".

In case you want to insert phenotypic data:

The ortet or cutting, character name have to be already in the database.

You go to "Phenotype"."Add or View Phenotypics Data"."Phenotypic Data Acquisition".

In case you want to insert genotypic data:

The ortets and the marker have to already exist in the database.

You go to "Genotype"."Genotype Data"."Add Measure".

To insert location, pedigree, markers type, first parent, category of phenology, users you have for the moment to contact the administrator.

3- Principals parts

The data base is composed of 5 main parts:



a) Molecular data, "Genotype":



This part allows to add, to modify or to consult information about molecular data. It contains 3 sections: "Markers": information about

marker types, "Genotype Data": the genotypic arrays by markers and by pedigrees, "View Offsprings" abstract of existing pedigrees.

b) Phenotypics data, "Phenotype":



This part allows to add, to modify or to consult information about phenotypic data of the offsprings. It contains 2 sections: "Add or View Phenotypic Assessment": information about the phenotypic character, "Add or View Phenotypic Data" measures of each phenotypic character by pedigree, by category of phenotypic characters, by characters...

c) Pedigrees, "Pedigree":



This part allows to add, modify or consult all the information about the pedigree. - "Mapping Pedigrees": overall information about all the pedigrees integrated in the database: number of offsprings, number of cuttings ... - "Offsprings": add, modify or check data about a given ortet (offspring of a given pedigree) - "Cuttings": add, modify or check data about cuttings of a given ortet. - "Controlled Crosses": yields of controlled crosses made each year. - "Propagation by cuttings": yields of vegetative propagation of the offsprings by year and by offspring.

d) CMap, "CMap":

CMap is a GMod tool who allows to view graphically the genetic maps.

e) Administration, "Administration":



"Add Project": allows to add a new project
"Add or Delete rights of Access to the Data": allows to manage the rights according to your data.

- "Change My Password": if you want to change your password...

4- Molecular Data

It is composed of 3 parts.

4.1. Markers

<u>a) Add markers</u>

* Add one marker:



① Required fields: you have to select the type of marker, to tape the name, eventually the short name and to select the type of inheritance ('codominant', 'dominant') of your new marker.

② You can insert some remarks about your new marker.

③ You have to select the project associated to this marker (Evoltree or older project).

You cannot use the same name of

markers for the different category of marker. In addition a marker has to be assigned to a project in order to manage the data rights. You can tape whatever you want in the "Remarks fields" as additional info to the marker. You can eventually indicate a short name for the marker but it is not necessary because all markers have not a short name associated, for example of short name (ssrQpZAG112, his short name is Qp112...).

If the name of the marker already exists in the database an error message will appear!!

* Add many markers:



1 =you have to select the type of marker concerned by this insertion.

2 = you have to select the project associated to this data 3 = you have to select the file who contains the data to insert in the database.

A format of the file has to be defined more precisely. First column, the marker's name,

second column the short name of the marker, third column the type of inheritance, fourth column the remarks.



<u>b) Change markers</u>

First you have to select the category of the marker to which the marker belongs. When you select the category of marker, the list of all available markers corresponding to this category will be displayed. Choose within this list the marker's name you want to modify. The marker information is then displayed on the screen (1). You can only make changes in the remarks field (2).

<u>c) Show Markers</u>



	Home / Map / Marker / Show /									
				<u>1 2 »</u>						
Туре	Name	X-deux	Allele Type	Remarks	Creation					
SSR	mic-J-GA22		codominant		2000-01-01					
SSR	MSQ13		codominant		2000-01-01					
SSR	MSQ13*		codominant		2000-01-01					
SSR			codominant		2000-01-01					
SSR	Q4		codominant	remarque 8/11	2000-01-01					

1 = this is a link to get more information about the genotypic arrays and coding in the database.

1 er : MSO1 Maı 2 3 4 code of allele 1 : Code of allele 2 · 5 Length of allele 1 : بامالح For this pedigre and this marker, the number of genotypic classes have 5 occurrence(s) for genotypic class: : 2 4. You You have 6 occurrence(s) for genotypic class: : 1 4. You have 6 occurrence(s) for genotypic class: : 1 4. You have 4 occurrence(s) for genotypic class: : 2 3. fo have 5 occurrence(s Continue

1 = marker's name

2 = you can choose the pedigree associate to have an abstract of all measures obtains.

3 = allele codes and the allele lengths of the parents of the chosen pedigree.

4 = number of genotypic classes existing in the database

5 = number of occurrences

(trees) for each genotypic array existing in the data base

4.2. Genotypic Data

a) Add genotypic data:



1 = prerequisite infoon this page. 2 = select the markers, For example here I want to add new genotypic data for markers: "MSQ16, SSRQpZAG18, SSROrZAG132. Names of markers for which data are added need to be included in the list beforehand. 3 = select the pedigree 4 = select the

project or contract supporting the activity

5 = select the way alleles are scored, either by allele length or codes

6 = browse your directory to indicate the location of the files containing the data to be inserted.

7 =link to a commentary page that explains the format of the file

Here is an example of a file:

		Ē	ormat With	allele code :				
A	Same commer	nts.	D	E	F	G	н	1
pas de commenta	aires				Identity (of the trees .		
		11P	QS21	10	11	12	13	-
ssrQpZAG110	1/1	-1	23	-2	-3	ND	-2	
ssrQpZAG102	1/1/1/1	13	24	12	14	12	34	
ssrQrZAG108	1/1/1/1	24	13	ND	ND	21	41	
sssQrZAG11	1/1/1/1	14	23	ND	12	43	43	
MSQ16 K	7 1/1	2 11	23	12	1 12	ND	ND	
Name of markers	Type of segregation	Genotype of	the parents		Values	of the measure		-

(uppercase, space, punctuation ...).

1 row of comments (only 1 row is allowed for comments)
line number 3 corresponds to the offsprings belonging to the pedigree ;

You have to care about the orthography of the markers and the pedigree

	A	B		C	D	E	F	G	н	1	J
	ceci est un fichie	er test	e conce	mant les me	sures a rentr	er dans la base	de données				
	3 lignes de Rod	Forma	s sor	nt a avoir							
R.	event de compre	HCCI 2	insere	r ces donnée	s				(en abscisse	les numéros	des génotype
Ň	11P QS29	1	-	0	1				Annone		
10		(10	Ortet	11		12		13		14
	ssrQpZAG1/5	1	~ <	-	102	29	102	41	102	41	503
	ssrQpZAG10;		141	2	29	102	29	102	41	102	41
	ssrQpZAG10		102	29	102	29	41	29	41	29	
	ssrQpZAG11		9	29	9	303 -		*	9	29	9
)	ssrQpZAG11!		102	29	102	41	102	29	303	41	303
1	ssrQrZAG108					÷	29	102	41	102	29
2	sssQrZAG11	-	-	-	102	29	41	303	41	303	41
3	MSQ Markers		9	29	9	29 -		Measures	-	-	9
					- fir - se - "g	rst coll, mo econd coll, 0" for unkno	ther len father le own alle	gth allele ength alle le length,	, le,		

This is another example of a file where alleles are scored by using their size (in bp).

<u>b) (</u>	<u>Change genotypic data</u>				
*Marker : MSQ *Pedigree : 3P_A *Offspring : 308	16 V 4 V	This means that you need to identify the offspring whose genotypic score need to be changed, the marker concerned and the name of the pedigree.			
Va * = re	lidate equired fields	Reminder			
	Code of allele 1: 1 Length of allele 1: Code of allele 2: 4 Length of allele 2: Date : 21 V Jan Remarks : no remarks Validate	Vou can modify all information but be careful to be coherent.			

- 10 -

c) Show genotypic data



If you do not select any marker, all genotypic arrays will be shown on the table. Further, you can select subsets of

data by pedigrees, particular genotypic classes or dates of scoring.

Pedigree, Offspring Length of allele 1 Length of allele 2 Code of Code of Date Marker Users Remarks allele 1 allele 2 Mélina pas de MS016 3P_A4 ,14 3 Millox , 2008-01-16 commentaires P1a Mélina pas de Millox , P1a MSQ16 3P_A4 ,15 14 2 2008-01-16 commentaires Mélina pas de MSQ16 Pedoncule ,3P 1 Millox , 2008-01-16 commentaires P1a Excel You can export this JoinMap table in excel and Continue Joinmap format

4.3 View Offsprings

(nonicy hap then enters)
You can select one or more fields.
Pedigree :
Offspring :
Validate

This menu provides an overview of all the offsprings that belong to the pedigree (number of existing cuttings in case they were vegetatively propagated).

		(Heme / Map / View C	5 × [37]	-	Pagination
Cross	Name :	Creation date :	Oaks alive : (offsprings + cuttings)	Oaks dead : (offsprings + cuttings)		
3P_A4	100	2008-01-15	1 + 0	0 + 0	\	
3P_A4	101	2008-01-15	1 + 0	0 + 0		
3P_A4	102	2008-01-15	1 + 0	0 + 0		In the table, you can see the
3P_A4	103	2008-01-15	1 + 0	0 + 0		crossing, the name (Ortets), the
3P_A4	104	2008-01-15	1 + 0	0 + 0		creation date, the oaks alive
3P_A4	105	2008-01-15	1 + 0	0 + 0	\geq	(Ortets + cuttings), the oaks
3P_A4	106	2008-01-15	1 + 0	0 + 0		dead (Ortets + cuttings).
3P_A4	107	2008-01-15	1 + 0	0 + 0		
3P_A4	108	2008-01-15	1 + 0	0 + 0		
3P_A4	109	2008-01-15	1 + 0	0 + 0	J	
			Export			
						Continue

5- Phenotypic Data

5.1. "Add or View Phenotypic Assessments":



a) Add a new character:

b) View Existing Characters



1 = here you can select the different among the different assessments. If you click on a given assessment, you can see all the characters that were measured 2 = = link to documents giving more details on the protocols used to measure the various

characters (publications, thesis or other documents in pdf formats). If you click on the link, a new window will open with the content of the document 3 = if you can you can export this table in an excel file.

Home / Phenotype /	Assessmen	t / Show /							
<u>Character phenotypic</u> : Growth And Biomass									
<u>Details</u> : Thèse	Caro Saintag	ine							
Name :	Acronym :	Units :							
Total height at the end of the third growing season	Ht	none							
Mean flush length	Lmoy	none							
Total height increment during the 3rd growing season	Ltot	none							
Number of flushes	Nuc	none							
Pre	vious								
Cor	itinue								

This table indicates the names of the various characters measured for a given assessment,

5.2. "Add or view Phenotypic Data"

In this section you can introduce or view existing "raw" phenotypic data, eg the measurements made for each offspring (or a vegetative propagule of the offspring) in a giving plantation used for QTL detection.



b) Show existing phenotypic data:



You have to select a phenotypic character and a pedigree. You may use additional criteria to screen your data.

		<u>1</u>		<u>3 4 5 » [</u>
Date :	Oak :	Value :	Site :	geographical position
006-11-09	11P_QS29 _ 203	2	Bourran2	86, 16, 4
006-11-09	11P_QS29 _ 189	3	Bourran2	45, 5, 12
006-11-09	11P_QS29 _ 352	2	Bourran2	100, 18, 2
2006-11-09	11P_QS29 _ 234	2	Bourran2	183, 24, 93
006-11-09	11P_QS29 _ 249	2	Bourran2	68, 10, 59
006-11-09	11P_QS29 _ 216	3	Bourran2	139, 26, 89
006-11-09	11P_QS29 _ 133	2	Bourran2	135, 20, 17
006-11-09	11P_QS29 _ 104	2	Bourran2	145, 10, 103
2006-11-09	11P_QS29 _ 351	1	Bourran2	137, 2, 90
006-11-09	11P_QS29 _ 102	2	Bourran2	174, 15, 37
006-11-09	11P OS29 279	3	Bourran2	125, 17, 27
2006-11-09	11P_	[s	croll all th	e data]

You can navigate within the file and export the table as a Excel file.

6- Pedigree

6.1. Mapping Pedigrees:

Home / Pedigree / Mapping Pedigrees /								
Name	Author	Parental species	Number of offsprings	Number of cuttings	Remarks			
3P_A4	Kremer Antoine	_chene pedoncule	363	0	no remarks			
11P_Qs29	Kremer Antoine	_chene sessile _chene pedoncule	266	1	no remarks			
A4_3P	Kremer Antoine		265	0	none			
			N					
		Expo	ort.	_				
				Cont	tinue			

This is a summary table of all pedigrees in the database, and their corresponding number of offsprings and cuttings.

6.2. Offsprings:

In this section, you can add new offsprings, modify information about existing offsprings or view data about the offsprings

a) Add Offspring:

You can add offsprings one by one, or by inserting data from an excel file.

* "Add only one offspring":

	Home / Pedigree / Offsprings / Add
*Pedigree : *Offspring :	
*Date of plantation :	21 💟 Jan 💟 2008 💟
*Origin of the mother: *Code of the mother :	
*Origin of the father : *code of the father :	
	Validate * = required fields

To add one offspring, you have to fill the following fields: code of the pedigree, code of the offspring, date of creation, code of the female and male parent, species of the female and male parent

In the case the offspring is installed in a stool bed to be further vegetatively propagated it becomes an ortet. The information about the spatial location in the stool bed plantation is stored on the following.



* "Add many offsprings":

				Home / Pe	edigree / C	Offspring	s / Add / Ad	d Many ,	/		
		You ca	an only inse	rt some tre	es in the sa	me planta	ation in a file	who have	a format d	efined.	
	* Plan Re	ntation : marks : * File :					You have Is the da insert the	to sele ate of to file an some	ect a date oday, an id if need commer	e, by def Id the sit ded to in hts.	ault it e, to clude
C	iore detail <u>file t</u>	s on the o insert.	Validate	fields			Martina Contraction Contractio	5			
			- required	inclus			Ange Alex Page Alex Transform				
	<u>A</u>			Le a	L.	1					1 N 1
1	fichier créé pa				1 27			11		<u> </u>	N.
1 2 2	fichier créé pa en janvier 200	ar yuy Balahasa d			L	- T		11			1X
1 2 3 1	fichier créé pa en janvier 200 dans le cadre	ar Suy Ba de la base de	e données pou	r la cartograpi	ie du chêne			11.			N
1 2 3 4 5	fichier créé pa en janvier 200 dans le cadre	an Suy D8 e de la base de	e données pou	r la cartograph	nie du chéne Code croisem	, D mere		D nere		s noverif Param	10 16 Date of creation
123456	fichier créé pa en janvier 200 dans le cadre block	ar yuy Ba a de la base de X	e données pou	r la cartograph	nie du chêne Code croisem 11P Os28	ID. mere	code cross m Pedancula	ID. pere Os28	code cross	s p(verif, Paren H 19	té Date of creation 01/01/2008
1 2 3 4 5 6 7	fichier créé pa en janvier 200 dans le cadre block 0 0	arteuy arteuy arte la base de X 4 4	e données pou Y 26 16	r la cartograph Identification 19 35	ie du chêne Code croisen 11P_Qs28 11P Qs28	ID. mere 11P 11P	code cross m Pedoncule	ID. pere Qs28 Qs28	code cross Sessile	s p(verif. Paren H _ 19 H _ 35	té Date of creation 01/01/2008
1 2 3 4 5 6 7 8	fichier créé pa en janvier 200 dans le cadre block 0 0 0 0	ar Suy Barde la base de X 4 4 4	e données pou Y 26 16 13	r la cartograph Identification 19 355 39	ie du chêne Code croisen 11P_Qs28 11P_Qs28 11P_Qs28	, ID. mere 11P 11P	code cross m Pedoncule Pedoncule	1D. pere Qs28 Qs28 Qs28	code cross Sessile Sessile Sessile	s prverif. Paren H 19 H 36 H 39	té Date of creation 01/01/2008 01/01/2008
1 2 3 4 5 6 7 8 9	fichier créé pa en janvier 200 dans le cadre block 0 0 0 0 0 0	ar Suy Bar Suy Bar de la base de X 4 4 4 4	e données pou Y 26 16 13 5	r la cartograph Identification 19 35 39 51	tie du chêne Code croisen 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28	1D. mere 11P 11P 11P 11P	code cross m Pedoncule Pedoncule Pedoncule	ID. pere Qs28 Qs28 Qs28 Qs28 Qs28	code cross Sessile Sessile Sessile Sessile	s poverif. Paren H _ 19 H _ 35 H _ 39 H 51	té Date of creation 01/01/2008 01/01/2008 01/01/2008 01/01/2008
1 2 3 4 5 6 7 8 9 10	fichier créé pa en janvier 200 dans le cadre block 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x 4 4 4 4 4 7	e données pou Y 26 16 13 5 44	r la cartograph Identification 19 35 39 51 53	ie du chêne Code croisen 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28	ID. mere 11P 11P 11P 11P 11P	code cross m Pedoncule Pedoncule Pedoncule Pedoncule	ID. pere Qs28 Qs28 Qs28 Qs28 Qs28 Qs28 Qs28	code cross Sessile Sessile Sessile Sessile Sessile	s prverif. Paren H _ 19 H _ 36 H _ 39 H _ 61 H _ 53	té Date of creation 01/01/2008 01/01/2008 01/01/2008 01/01/2008 01/01/2008
1 2 3 4 5 6 7 8 9 10 11	fichier créé p en janvier 200 dans le cadre block 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ar yuy ba a de la base de X 4 4 4 4 7 5	e données pou Y 26 16 13 5 44 2	r la cartograph Identification 19 35 39 51 53 62	L ie du chêne Code croisen 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28	ID. mere 11P 11P 11P 11P 11P 11P 11P	code cross m Pedoncule Pedoncule Pedoncule Pedoncule Pedoncule Pedoncule	ID. pere Qs28 Qs28 Qs28 Qs28 Qs28 Qs28 Qs28 Qs28	code cross Sessile Sessile Sessile Sessile Sessile Sessile	s p(verif. Paren H _ 19 H _ 35 H _ 39 H _ 51 H _ 53 H _ 62	té Date of creation 01/01/2008 01/01/2008 01/01/2008 01/01/2008 01/01/2008 01/01/2008
1 2 3 4 5 6 7 8 9 10 11 12	fichier créé pa en janvier 200 dans le cadre block 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x 4 4 4 4 4 7 5 5	e données pou Y 26 16 13 5 44 2 3	r la cartograph Identification 19 35 39 51 53 62 63	L Code croisen 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28 11P_Qs28	10. mere 11P 11P 11P 11P 11P 11P 11P 11P	code cross m Pedoncule Pedoncule Pedoncule Pedoncule Pedoncule Pedoncule Pedoncule Pedoncule	ID. pere Qs28 Qs28 Qs28 Qs28 Qs28 Qs28 Qs28 Qs28	code cross Sessile Sessile Sessile Sessile Sessile Sessile Sessile Sessile	s prverif. Parem H _ 19 H _ 35 H _ 39 H _ 51 H _ 53 H _ 62 H _ 63	té Date of creation 01/01/2008 01/01/2008 01/01/2008 01/01/2008 01/01/2008 01/01/2008 01/01/2008

b) Modify offsprings



1

c) <u>View Offspring:</u>



<u> </u>							
Offspring	Pedigree	Plantation	Date of plantation	Date of death	block, X, Y	Rq	Nb copies
306	3P_A4	Parc_a_pied_mere	2008-01-01		0, 3, 28		0
			Excel				Continue

The table contains the information of the offsprings: date of creation, location of the ortets, number of vegetative copies that were produces so far

6.3. Cuttings:

In this section, you can add new cuttings, modify information about existing cuttings or view data about the cuttings

<u>a) "Add cuttings":</u> <u>* Add only one cutting:</u>

Hom	e / Pedigree / Cuttings / Ado	d / Add one /	
*Pedigree : *Offspring : *Date of the plantation :	▼ 21 ▼ Jan ▼ 2008 ▼	You have to sp vegetatively pr date of creation	ecify the ortet that was opagated .and indicate the n.
Geographical coordinate of the cutting "Plantation : "Block : "Abscissa : "Ordinate : Remarks :		You have to of the cutting can insert so	indicate the location g. Eventually you me remarks.
	Validate * = required fields		

* Add several cuttings:



b) "Modify cuttings"

Home / Peo	digree / Cuttir	ngs / Change /		
Searc	h the cutting to	modify :		
*Pedigree : 11P_Qs2 *Offspring : 1 Geographical coordinate of the cutting: *Plantation : Bourran1 *Block : 1 *Abscissa : 1 *Ordinate : 1	29 V 1 V 1 V 1 V	You have to r that you wan To do this, yo cutting. A cut the ortet (peo and its planta abscissa, ordi	etrieve the cu t to modify. ou have to ide ting is recogn ligree + ortet tion (site, blo nate).	utting entify a nizable by number) nck,
As for the modification of offspring, brief information of the cutting is shown on the screen. You can only change the date of death or remarks about the cutting	Date of death : Remarks :	He Offsprin Pedigre Date of Parentf	ome / Pedigree / Cutt g : 1 e: 11P_Qs29 creation: 2008-01-21 loood checked : oui	ings / Change / Plantation: Bourran1 Block: 1 Abscissa : 1 Ordinate : 1
		Validate		

c) "View cuttings":

Geographicals coord	P O Pla Jinates of the A C Year of pl	Home / edigree :	Pedigree / C	uttings / Show /		If you cuttin Other pedig numb the lo and/o year o	u do not ogs will b wise, yc ree or/a per or/ar ocalisatio or the sta of creatio	fill any be show ou can nd the od the on infor atute a on.	/ fields, all wn. select the ortet site or/and mation and/or the
				Home / Pedigree	e / Cut	ttings / Sh	ow /		
	Offspring	Pedigree	Plantation	Date of plantation	Date	of death	block, X, Y	Remark	# of the copy
	1	11P_Qs29	Bourran1	2008-01-21	200	8-01-26	1, 1, 1	none	1
	2	11P_Qs29	Bourran1	2008-01-07			1, 1, 2	none	1
	3	11P_Qs29	Bourran1	2008-01-03			1, 1, 3	none	1
				ſ	Excel				Continue

The line in grey indicates that the cutting is dead.

"# of the copy" indicates the serial number of vegetative propagation of the offspring.

You can also export this file in an excel format.

6.4. Controlled crosses:

This section contains the information about the controlled crosses made to obtain the mapping pedigree, especially when the same cross was repeatedly made over years in order to increase the number of offsprings needed.

You can add a new cross, modify information about existing crosses or view data about the crosses.

<hr/>	
*Origin of the mother :	
*Code of the mother :	
*Ouisin of the fath on a	
Origin of the father :	×
*Code of the mother :	
*Crossing obtained :	
	validate
	* = required fields

a) "Add new controlled cross":

You have to indicate the code of the male and female parent. And provide the code of the cross obtained, which becomes the code of the new pedigree.

All this information are required fields (*).

b) "Modify a cross"



c) "View controlled crosses":

Home / Po Pedigree:	edigree / Year (Th yie cai pa	e tab Ids o n furt rents	le shown btained ir her restric , years et	on the each ct the c c	screen crossing query fo	will prov g campai or pedigr	/ide the gn. You ees,
Origin of the father:	_							
Code of the father:								
Year of controlled cross : Validate	2			Home	e / Pedigr	ee / Year	Crossing /	Shov
	Pedigree	Female	Male	Date	Acorns	Aborted Acorns	Remarks	
	11P_Qs29	11P	Qs29	2008-01-17	25	20	none	
	3P_A4	ЗP	A4	2008-01-21	35	5	none	
						Excel		

6.5. Vegetative propagation

a) <u>« Add vegetative propagation» :</u>

Н	ome / Pedigree / Propagations by cuttings/
*Pedigree : *Offspring :	
*Date :	22 💟 Jan 💟 2008 💟
*Number of cuttings :	
Number of rooted cuttings :	
Remarks :	:
	validate * = required fields

* « For one ortet only» :

You have to indicate the identity (pedigree code + ortet code) of the ortet vegetatively propagated.

You have also to select the date and the number of cuttings obtained. You can specify the number of cuttings who have rooted and the remarks.

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* « Many cuttings »:

You dire inse As l to v for	have to ectory that erted help info, riew the i the inser	select the at contains you can o required fi tion in the Presentation of form	date and the file t click on the formate data base ropagations by set 4 lines of comment	d the to be to be us to be us se. utings / Add / Ad news cuttings in the databat hts + :	link ed ^{IdMany /}	Home / Pedigree / Propagations by cuttings/ Add / Add man Vox can inset only cuttings in the same location and with a format of file stready defined. "Date of creation: 17 Jan 2008 "File : Parcourir. More details on the file to insert. Validato * = champs obligatoires
	A	В	С	D	E	
1	no remark		177			
2	test					
3	write by					
4	M.M.					
5	pedigree	id	cuttings	rooted cutting	remarks	
6	3P_A4	200	12	10	no	
7	3P_A4	210	12	11	no	
8	3P A4	221	15	5	no	
9	3P_A4	156	12	10	no	
10) 3P_A4	202	12	11	no	
1-	3P_A4	102	15	5	no	
12	2 3P_A4	256	12	1	no	
13	BAP A4	290	12	1	Ino	
			Again			

b) <u>« Modify vegetative propagation » :</u>



Indicate the code of the ortet, and of the pedigree. The only field that can be changed is the number of successful cuttings obtained

c) <u>« View vegetative propagation »:</u>



The table shown on the screen will provide the number of rooted cuttings obtained for each ortet. You can further restrict the query for pedigrees, parents, ortets, years etc...

		Home / Peo	digree / Prop	agation by	cutt
Offspring	Cuttings	Rooted cuttings	Date	Remarks	
3P_A4 _14	35	30	2008-01-21	none	
3P_A4 _308	12	8	2007-12-03	none	
<u></u>	·		(Excel	1

7- Administration

|--|

	Home / Administration / Project /	
	Names of existing projects	
Cassidy	Evoltree	OakFlow
Project Name :		
Project Name :		

A table shows us the project already existing in the database. You have just to tape your new project name and to validate. Do care to the punctuation, the uppercase and the orthography!

7.2. Add or Delete rights of access to the database

To manage the data, a system of right has been established. This system allows to specify some rights for the genetics data (measures and markers) and for the phenotypics data. You can notably specify some rights according the project or a deadline.

You have to do care to sequencing the rights correctly. For example, if you give rights to all assessment to one laboratory and after to



a) "Add news rights of access to my data":



b) "Delete rights of access to my data":

* "On Pheno":

	\frown	Home / Administration / Right / Delete /						
/	Delete :	Date limited :	assessment :	character :	pedigree	project :	lab share :	
		-	Leaf Morphology	All	11P_QS29	Evoltree	P1c	
	R	-	Leaf Morphology	All	11P_QS29	Evoltree	P1f	
		-	Leaf Morphology	All	11P_QS29	Evoltree	P2a	
		-	Leaf Morphology	All	11P_QS29	Evoltree	P2b	
		-	Leaf Morphology	All	11P_QS29	Evoltree	P2c	
		-	Leaf Morphology	All	11P_QS29	Evoltree	P1b	
	\bigcirc		r	Mélina Millox				
	You have to select the line you want to delete and validate.				delete			

* "On Measure":

		Hom	ne / Admi	nistration ,	/ Right / [Delete /	
Delete :	Date limited :	Type of marker :	Marker :	pedigree	project :	lab share :	
	-	All	All	Pedoncule	Cassidy	P1e	
	-	All	All	Pedoncule	Cassidy	P1f	
	-	All	All	Pedoncule	Cassidy	P1d	
Mélina Millox							
delete							

Same things, you have to select the lines you want to delete and validate. Only

information in the table changes.

* "On Marker":

Delete : Date limited : Type of marker : Marker : project : lab share Pedigree Image: Comparison of the state of the
Pediaree Fi - SSR All All P1c
CMap - SSR All All P1d
Administration - SSR All All P1b

Same things.

7.3. Change My Password

	Home / Administration / PassWord /
*Please seize the current password :	
*Please seize the new password :	
*Checking of the seizure :	
	validate
	= requirea neias

You have just to tape your old password, your new password and your new password again to be sure that it's correctly tape the first time. You have to do care to the PUNCTUATION & UPPERCASE & ORTHOGRAPHY & SPACE! Don't forget your password, if it is, ask to the administrator to you return.

<u>8- CMap</u>

Not yet available.

9 – Other information

In Annexe A, you can see the conceptual model of the database. You have to do care to the format of the file insert in the database (number and position of the rows and columns), to the punctuation, the uppercase and the orthography.

Conclusion

Some ameliorations of the software have been planned. Any suggestion or remark, please contact mélina millox at <u>Mélina.Millox@pierroton.inra.fr</u> or Frederic Raspail at <u>Frederic.Raspail@pierroton.inra.fr</u>. Annexe A : MCD

