

ENSAT Registry User Guide

About the Registry

The ENSAT registry is a data repository for clinical and biomaterial information for adrenal cancer patients worldwide. It is a system designed to facilitate the exchange of information about adrenal cancer research between clinical professionals, and provides mechanisms to conduct, connect and grow clinical studies in this area. The technical development team is situated at the University of Melbourne in Australia, and is supported by the European Union FP7 initiative (grant agreement 259735), and the European Science Foundation (ESF).

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Please note that some of the features described in this document may not be available to you because of the security settings implemented. If you do not have access to any feature but wish to use it, please contact Anthony Stell (astell@unimelb.edu.au).

1. Landing page

To access the ENSAT registry go to <https://registry.ensat.org>. If you get warnings about certificate security or mixed content, please see the document entitled “*ENSAT Security Certificate Procedures*” which details how to import a certificate into your browser (you can click straight through this warning to get to the site – the connection is still protected and secure). You will come to the landing page (figure 1), which introduces the registry purpose and outlines the rules and responsibilities associated with using the application.

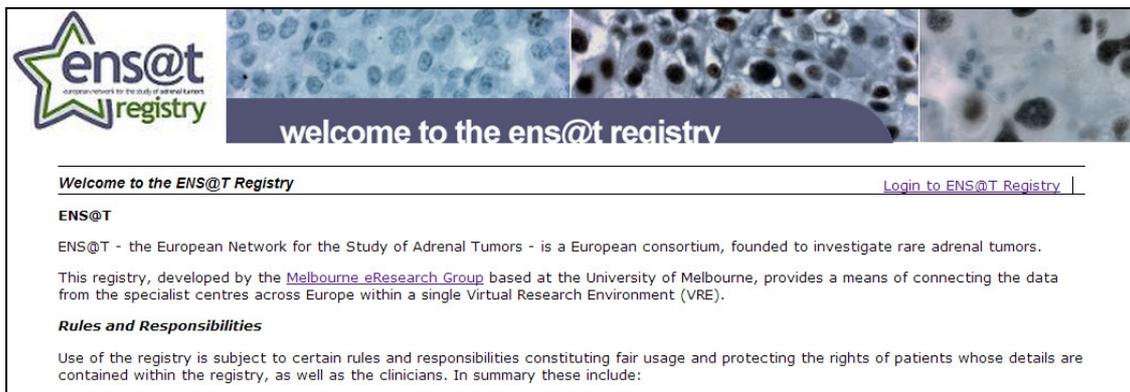


Figure 1: ENSAT registry landing page

2. Logging in and Navigation

To begin, click on **Login to ENS@T Registry** at the top right corner of the page. Enter the username and password that you have been provided with along with this guide (contact Anthony Stell, astell@unimelb.edu.au, if you have not got this). You will be taken to the main home page for the online ENSAT registry.

Beneath the main banner is the navigation bar. On the left side of this are a set of links related to each tumor type: **ACC**, **Pheo**, **NAPACA** and **APA** (figure 2). **Home** takes you back to this page wherever you are in the registry. If you already know the ENSAT ID – the unique patient identifier within the registry – you can enter this into the search box, and click **Search**.

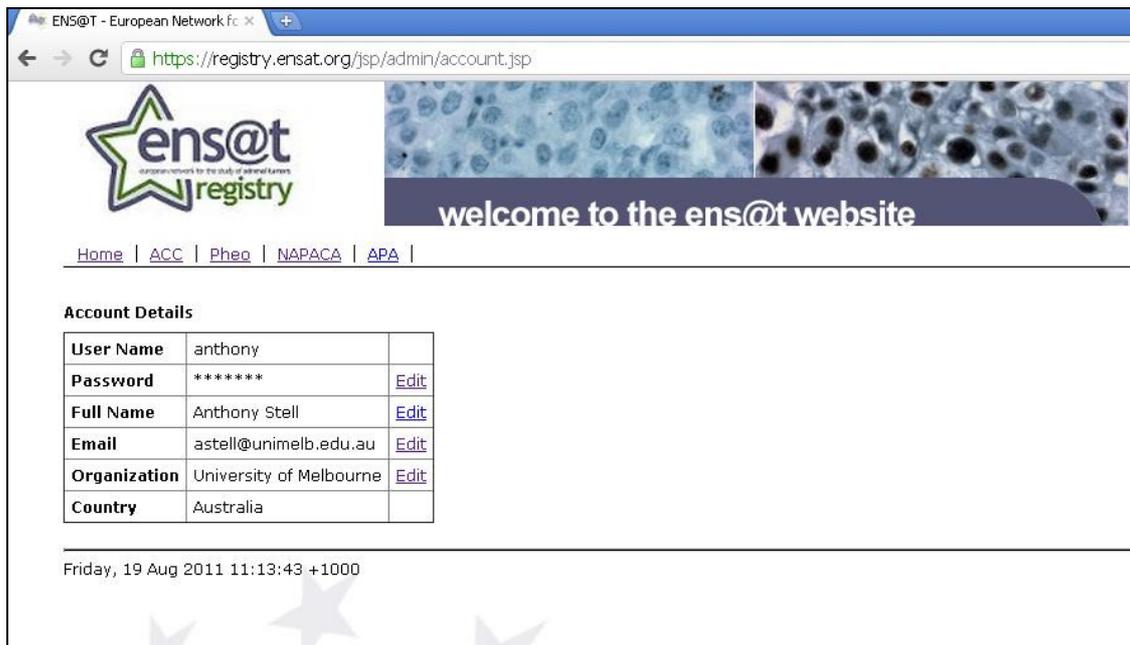


Figure 2: the main navigation controls at the left of the navigation bar. An ENSAT ID (e.g. *GYMU-0001*) can be entered into the search box to directly view that patient record.

On the right of the navigation bar are a welcome message and a link marked **Sign Out**, which you can use to log out of the registry at any time. If there has been no session activity for 15 minutes, the system will automatically log you out. The other link on the right is Account Details and this allows you to view and update your account information.

3. Managing your account information

If you click on **Account Details** you will be taken to a page that summarises the information currently held about your own account (figure 3).



The screenshot shows a web browser window with the URL <https://registry.ensat.org/jsp/admin/account.jsp>. The page features the ENS@T logo and a navigation bar with links: [Home](#) | [ACC](#) | [Pheo](#) | [NAPACA](#) | [APA](#). Below the navigation bar is a section titled "Account Details" containing a table with the following information:

User Name	anthony	
Password	*****	Edit
Full Name	Anthony Stell	Edit
Email	astell@unimelb.edu.au	Edit
Organization	University of Melbourne	Edit
Country	Australia	

At the bottom of the page, the date and time are displayed: Friday, 19 Aug 2011 11:13:43 +1000.

Figure 3: example summary of account details

You can edit any of the information points that have a link next to them. Please note that all passwords must be at least 8 characters long and contain a mixture of upper-case, lower-case and numbers.

4. Summary page

On this page are several links and tables of information outlining the current content of the registry. At the top are links to:

- Protocols and studies currently supported by the registry (figure 4)
- A map of the registry coverage, grouped by tumor type and in total (figure 5)
- A map and listing of all the participating specialist centers
- Two biobank features:
 - An inventory of the biomaterial freezer for the center associated with your user account
 - An option to upload a biomaterial manifest spreadsheet

Below this are three tables outlining various metrics:

- A summary of record numbers and clinical/biomaterial samples
- A list of studies supported by the registry, their distribution, and principal investigator details
- A ranking 'league' table of center contributed record numbers grouped by tumor type and overall

Study protocols and SOPs
<i>PMT3</i>
<ul style="list-style-type: none">▪ A1 - Study overview▪ A2 - Study intellectual property guidelines▪ B1 - Subject visit files and records▪ B2 - Subject visit plan record▪ C1 - Unique identifiers for human subject research▪ C2 - Unique identifiers for human specimens▪ C3 - Unique identifier sticky label procedures▪ C4 - PMT3 specimen labels▪ D1 - Sample collection flow sheet▪ E1 - Specimen storage tubes and cryoboxes▪ E2 - Specimen processing▪ E3 - Plasma metanephrines and catecholamines blood sample and shipping▪ E4 - Specimen chilling▪ E5 - 24hr urine collection▪ E6 - Blood DNA sample and shipping▪ F1 - Sample manifest
<i>EURINE-ACT</i>
<ul style="list-style-type: none">▪ SOPs for EURINE-ACT

Figure 4: example listing of SOPs and protocol documents (for the PMT3 and EURINE-ACT studies respectively)

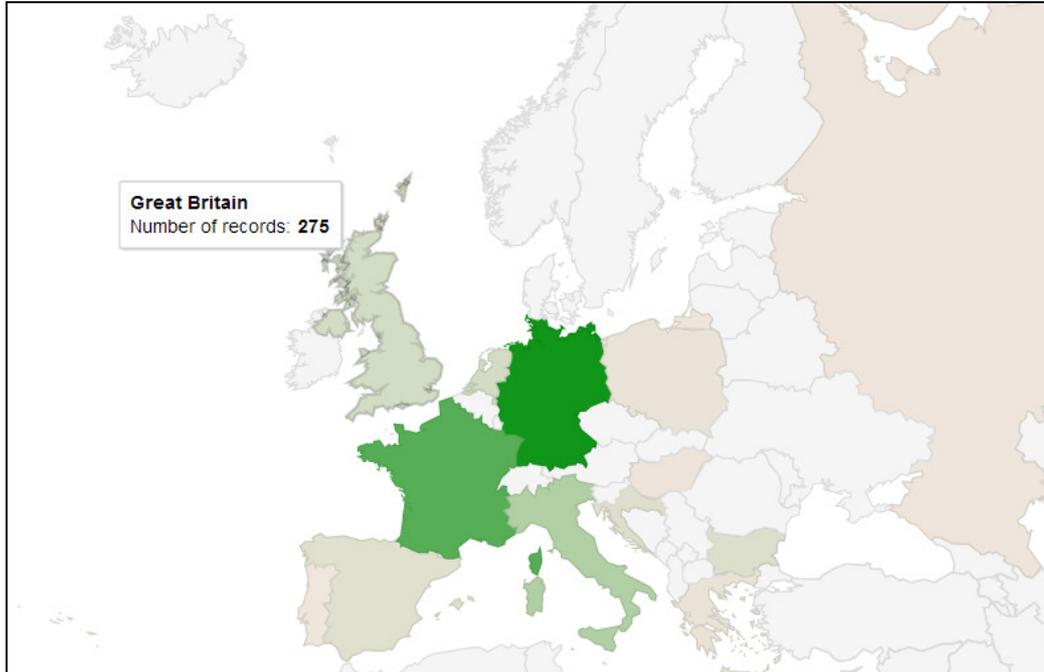


Figure 5: A map of Europe covering overall record contribution. Hovering over the country shows the number of records that have been contributed from there (e.g. Great Britain have contributed 275 records overall). The deeper the colour, the more records have been contributed.

4.1 Center code and PI information

Clicking on Centers and Principal Investigators will take you to a table that shows the list of all participating centers, their assigned code, the principal investigator, and the current record number. The list is grouped by country – clicking on the country name will render the same list on the left, but show the centers marked on a map of that country (figure 6). If you wish to modify or add to the details on this list, please contact Anthony Stell on the email address at the top of this document.

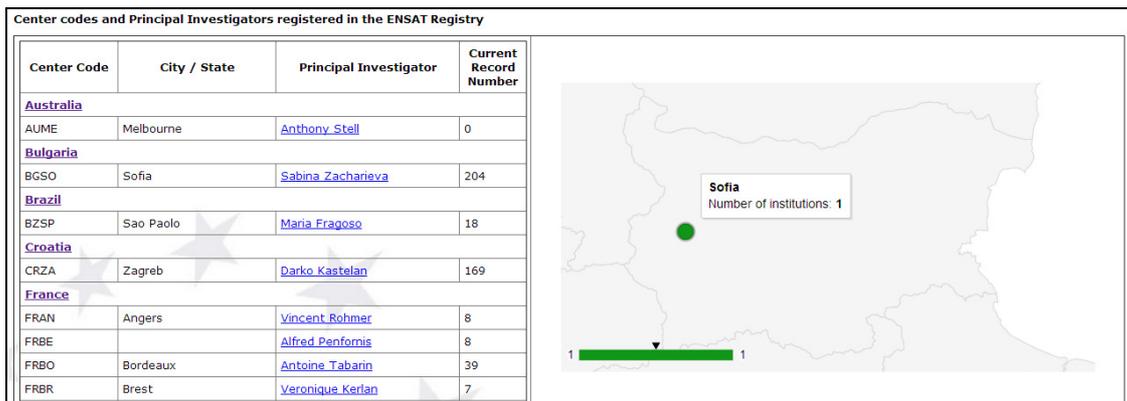


Figure 6: example of country center detail (BGSO represents Sofia, Bulgaria, which has one contributing center).

4.2 Biobank features

4.2.1 Biomaterial freezer inventory

To view the current inventory of the biomaterial freezer at your center, click on **Freezer Inventory**. The number of freezers and component capacities for your center will have been previously uploaded to the registry, and you will now see a diagram of these (figure 7). If you do not see any freezers on this page, contact the development team (astell@unimelb.edu.au).



Figure 7: initial view of the biomaterial freezer inventory at a center

The components making up the biomaterial freezer structure are as follows in order of hierarchy:

- Freezer
- Freezer shelf
- Rack
- Rack shelf
- Box
- Position

Each position is occupied by one aliquot of a sample, which will be marked with ENSAT ID, aliquot sequence number and material name.

These components can be navigated through by clicking on the relevant rack numbers, showing the detail on the right of the page. A navigation trail allows you to see where you currently are in the freezer and once at position a list of the materials is shown (figure 8).

Freezer 2 -> Freezer Shelf 1 -> Rack 2 -> Rack Shelf 1 -> Box 2

Freezer #1				Freezer #2				Box #2_1_2_1_2	
Freezer Shelf #1				Freezer Shelf #1				Position	ENSAT ID: material (aliquot sequence)
Rack 1	Rack 2	Rack 3	Rack 4	Rack 1	Rack 2	Rack 3	Rack 4	#1	GYMU-174: plasma (1)
Freezer Shelf #2				Freezer Shelf #2				#2	GYMU-174: plasma (2)
Rack 1	Rack 2	Rack 3	Rack 4	Rack 1	Rack 2	Rack 3	Rack 4	#3	GYMU-174: plasma (3)
Freezer Shelf #3				Freezer Shelf #3				#4	GYMU-174: plasma (4)
Rack 1	Rack 2	Rack 3	Rack 4	Rack 1	Rack 2	Rack 3	Rack 4	#5	GYMU-174: plasma (5)
								#6	GYMU-174: plasma (6)
								#7	GYMU-174: serum (1)
								#8	GYMU-174: serum (2)
								#9	GYMU-174: serum (3)
								#10	GYMU-174: serum (4)
								#11	Unoccupied
								#12	Unoccupied
								#13	Unoccupied
								#14	Unoccupied

Figure 8: example of biomaterial positions within the freezer

4.2.2 Biomaterial manifest upload

Back at the landing page, if you click on **Manifest Upload**, you are taken to a page asking for a spreadsheet of biomaterial samples, aliquot numbers and freezer positions to upload (figure 9). This allows a bulk upload of freezer position information to be input into the registry at once.

Tumor type:	[Select...] ▼
Choose File	No file chosen
Upload File	

Figure 9: manifest file upload box

Only spreadsheets in the required format will be accepted. An example is linked to at this page to show the correct formatting of columns and rows.

Once the tumor type and file have been chosen and submitted, the feature shows the information on screen in a table, showing all the information that will be uploaded. On the right-most column is information about whether that freezer position is already occupied or if it is invalid – i.e. beyond the capacity of the freezer component (figure 10).

Sheet 1										
ENSAT-ID	date	material	aliquot	Freezer	F-Shelf	Rack	R-Shelf	Box	Pos	Occupied
GYMU-148	2008-04-10	plasma	1	2	1	1	1	1	1	Yes
GYMU-148	2008-04-10	plasma	2	2	1	1	1	1	2	Yes
GYMU-148	2008-04-10	plasma	3	2	1	1	1	1	3	Yes
GYMU-162	2008-04-10	plasma	1	2	1	1	1	1	4	Yes
GYMU-162	2008-04-10	plasma	2	2	1	1	1	1	5	Yes
GYMU-162	2008-04-10	plasma	3	2	1	1	1	1	6	Yes
GYMU-111	2008-05-15	plasma	1	2	1	1	1	1	7	Yes
GYMU-111	2008-05-15	plasma	2	2	1	1	1	1	8	Yes

Figure 10: example of spreadsheet biomaterial information to be uploaded

Upon confirmation of the upload, only valid freezer position information will be input into the registry.

5. Detailed information summary

To view the detailed clinical and biomaterial information stored within the registry, click on one of the tumor types listed in the navigation bar: **ACC**, **Pheo**, **NAPACA**, **APA**.

A list of all unique patient records (identified by ENSAT ID) will be shown (figure 11). These can be viewed using various controls:

- Ordered by **ENSAT ID**, **Record Date** or **Date of First Registration**
- Limited to 100 records per page, viewable by clicking on the page number (both at the top and bottom of the record listing)
- In the navigation bar, select the consent level filter (options – **All**, **National**, and **Local**) and click **Filter**. This restricts the view to the appropriate sharing consent levels for each record.

ENSAT ID	Referral Doctor	Record Date	Date of First Registration	Sex	Year of Birth	Consent Level Obtained	
FRPA3-0029	Eric Baudin (eric.baudin@igr.fr)	19 Feb 1988	19 Feb 1988	F	1944	National (France)	No follow-up for 12 months
FRPA3-0020	Eric Baudin (eric.baudin@igr.fr)	14 Dec 1989	14 Dec 1989	M	1946	National (France)	No follow-up for 12 months
FRPA3-0026	Eric Baudin (eric.baudin@igr.fr)	30 Jan 1990	30 Jan 1990	F	1970	National (France)	No follow-up for 12 months
FRPA3-0033	Eric Baudin (eric.baudin@igr.fr)	25 Feb 1990	25 Feb 1990	F	1965	National (France)	No follow-up for 12 months
FRPA3-0028	Eric Baudin (eric.baudin@igr.fr)	02 Nov 1990	02 Nov 1990	F	1927	National (France)	No follow-up for 12 months
FRPA3-0021	Eric Baudin (eric.baudin@igr.fr)	28 Feb 1991	28 Feb 1991	F	1991	National (France)	No follow-up for 12 months
FRPA3-0015	Eric Baudin (eric.baudin@igr.fr)	03 Mar 1991	03 Mar 1991	M	1965	National (France)	No follow-up for 12 months
FRPA3-0012	Eric Baudin (eric.baudin@igr.fr)	24 May 1991	24 May 1991	F	1959	National (France)	No follow-up for 12 months

Figure 11: example record listing in ACC, filtered to show the first 100 records

In this mode, the navigation bar also has a clock timer underneath the **Sign Out** option, which shows how much time remains for the user to make some action before the session times out.

The record list shows summary information for every record in that database (ID, center ID, referral doctor, dates, sex, year of birth and level of consent sharing). In the right-most column are shown extra information about patients, such as candidacy for other sections, extended periods without follow-up, possible double inclusions and data completeness.

The three columns on the right of the data are reserved for showing privileged actions. If the user has full edit privilege on a patient then they can click on **Detail** and **Delete** to make these modifications (figure 12). If they have read-only access, then Detail will take them to a read-only page. If they have no viewing access then no links will show.

National (Italy)				No follow-up for 12 months
National (Germany)	Detail	Delete	Status Report	
European ENSAT Partners	Detail			
National (France)				No follow-up for 12 months

Figure 12: example of different viewing privileges. This user cannot see patients with national sharing policies outside of Germany. For the second patient they have full privilege, for the third they have read-only privilege.

In the third of these columns, are extra privileged information links – in ACC, a privileged user can view a status report on that patient. In Pheo, they can transfer the patient to the PMT study. In NAPACA, they can transfer the patient into any of the other three tumor sections.

6. Create a record

To create a new entry in the registry, click on **Create New Record** at the top of the listing page, which takes you to the primary information form (figure 13).

Create ACC Record

Identification

The following data points are the minimum criteria required for creating a patient record.

ENSAT ID Number:	[AutoGenerated]
Year of Birth:	<input type="text"/>
Sex:	[Select...] ▾
Center ID:	[Select...] ▾
Date of ENSAT Registration:	<input type="text"/>
Level of consent for clinical research (Local, National, ENSAT, International):	[Select...] ▾
Associated studies:	<input type="checkbox"/> ACC Molecular Marker <input type="checkbox"/> ADIUVO <input type="checkbox"/> ADIUVO Observational <input type="checkbox"/> EURINE-ACT <input type="checkbox"/> FIRMACT <input type="checkbox"/> ...

Figure 13: example of information required to create a new registry entry

Fill in the fields on Identification, Diagnostic Procedures, Tumor Staging and Patient History with as much information as possible. Various validation features will guide you to correctly input the relevant data points (e. g. numbers only for height and weight). The only mandatory fields are those for the identification of the patient on the first page – this is the minimum information required to create a new record.

Once you have filled out the information click **Confirm Details**. A summary of the information about to be created will be shown. If the information is correct, click **Confirm** again and the record will be created with a link to the details. If it is not correct, click on **Back** and input the information again (please note that the back-space button has been disabled).

7. Update a record

Once the main record has been created you can amend the details or add associated form records to it. From the database summary list, click on **Detail** for the record you wish to update. You will be taken to the detail summary page (figure 14).

ENSAT Home | ACC Home | ACC Search | ACC Exported Data | Welcome, Anthony | Sign Out

ACC Record GYWU-0005 details

Identification

Record date: 19 Apr 2011
 ENSAT ID Number: GYWU-0005
 Year of birth (yyyy): 1977
 Sex: F
 Center ID: GYWU
 Referral Doctor: Martin Fassnacht
 Email: fassnacht_m@medizin.uni-wuerzburg
 Date of ENSAT registration: Day: 03 Month: Jun Year: 2003
 Level of informed consent for clinical research (Local, National, ENSAT, International): National
 Will this patient be included in the EURINE-ACT study: [Select...]

Diagnostic Procedures (at time of primary diagnosis)

Date of initial ACC diagnosis: Day: 06 Month: Apr Year: 2001
 Disease Status at time of registration: [Select...]
 Modality of diagnosis: Pathology
 Associated Malignancy: No
 Occurrence during pregnancy: No

Associated Record Information

[Surgery](#) [Pathology](#) [Biomaterial](#)
[Mitotane](#) [Chemotherapy](#) [Radiofrequency](#)
[Radiotherapy](#) [Chemembolisation](#) [Follow-Up](#)

Summary of Associated Record Information

ENSAT ID	Form ID	Date	Record Information		
GYWU-5	12075	28 Sep 2003	Follow-Up	Detail	Delete
GYWU-5	9230	15 May 2003	Follow-Up	Detail	Delete
GYWU-5	9202	26 Nov 2002	Follow-Up	Detail	Delete
GYWU-5	9201	29 Jul 2002	Follow-Up	Detail	Delete
GYWU-5	9200	22 Apr 2002	Follow-Up	Detail	Delete
GYWU-5	9199	06 Feb 2002	Follow-Up	Detail	Delete
GYWU-5	9198	22 Oct 2001	Follow-Up	Detail	Delete
GYWU-5	9197	21 Aug 2001	Follow-Up	Detail	Delete
GYWU-5	9196	08 Jul 2001	Follow-Up	Detail	Delete
GYWU-5	9607	27 Apr 2001	Follow-Up	Detail	Delete
GYWU-5	1409	06 Apr 2001	Pathology	Detail	Delete
GYWU-5	6	06 Apr 2001	Surgery	Detail	Delete

[ACC Home](#)

Figure 14: example of viewing the detailed information for a patient

Information on the left panel can be updated by adding the data then clicking **Update Details** at the bottom – again a confirm page will be shown before submission.

7.1 Updating form details

In addition to the main diagnosis information for a patient, multiple forms can be added showing follow-up clinical and biomaterial information. A list of sections – different for each tumor type – is shown on the right panel covering surgery, pathology, treatments, follow-up and biomaterial.

To view the list of forms in a section, ordered by date, click on the section name in the area at the top of the right panel. For instance, to add a biomaterial form, click on **Biomaterial**, and you are shown a list of all the biomaterial forms for this patient (figure 15).

ENSAT ID	Form ID	Date	Study	Types			
GYMU-0222	639	09 Jul 2012		Heparin Plasma Serum 24h Urine Spot Urine	Detail	Label	Delete
GYMU-0222	638	09 Jul 2012		Leukocyte DNA EDTA Plasma Serum 24h Urine	Detail	Label	Delete
GYMU-0222	409	02 Feb 2012		24h Urine	Detail	Label	Delete

Figure 15: example list of biomaterial forms for a patient

By clicking on **Create new Biomaterial record**, you will then be presented with a form to fill out the relevant details for the biomaterial section (figure 16).

Biomaterial Date:	<input type="text"/>																																																	
Associated Study:	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: center;">March 2014</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Su</th> <th>Mo</th> <th>Tu</th> <th>We</th> <th>Th</th> <th>Fr</th> <th>Sa</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> <tr> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> </tr> <tr> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> </tr> <tr> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> <tr> <td>30</td> <td>31</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div>	Su	Mo	Tu	We	Th	Fr	Sa							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Su	Mo	Tu	We	Th	Fr	Sa																																												
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2	3	4	5	6	7	8																																												
9	10	11	12	13	14	15																																												
16	17	18	19	20	21	22																																												
23	24	25	26	27	28	29																																												
30	31																																																	
Associated Study (Phase/Visit):																																																		
Tumor Tissue (Frozen):																																																		
Tumor Tissue (Paraffin):																																																		
Tumor Tissue (DNA):																																																		
Leukocyte DNA:	<input type="text" value="[Select...]"/>																																																	
EDTA Plasma:	<input type="text" value="[Select...]"/>																																																	
Heparin Plasma:	<input type="text" value="[Select...]"/>																																																	

Figure 16: example of biomaterial form input, with date entry box shown

Fill out the relevant details, confirm and submit. The new record can now be seen in the biomaterial summary list (figure 17).

Biomaterial Information					
Create New Biomaterial Record					
ENSAT ID	Form ID	Date	Biomaterial Types		
GBBI-55	55	08 Mar 2010	Tumor Tissue (Frozen) Plasma Serum	Detail	Delete
Patient GBBI-55 Detail			ACC Home		

Figure 17: an individual biomaterial form entry. The form details can be viewed or the form itself can be deleted using the link controls on the right.

Similar to the main records, forms can be updated or deleted by clicking on the relevant links on the right. Editing or deleting these records is an isolated procedure from editing or deleting the overall record. This action can be repeated for all the clinical, follow-up and treatment sections.

7.2 Timeline visualisation

At the bottom of the right panel on the patient detail, is a link to the patient's timeline. Click on this to see a visual timeline of all the date information associated with that patient from date of registration onwards (figure 18).

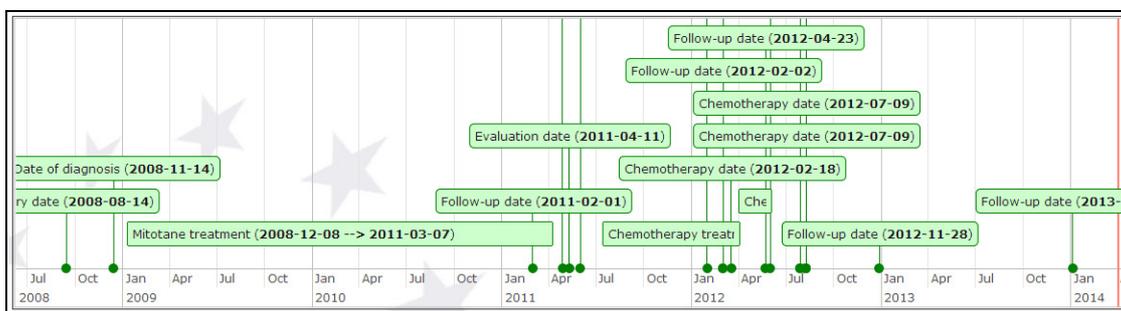


Figure 18: example of patient timeline visualisation. The red bar on the right indicates today

All sub-forms are noted on here, with any treatment information that has an initiation and end-point, mapped as a duration rather than a single time-point. Click on the link to show more or less information about each point, and the timeline can be moved by dragging the mouse or using the scroll-wheel.

7.3 ACC – patient status report

In ACC, the link **Individual Status Summary Report** can be clicked to show key critical information and about patient therapy and survival times (figure 19). These options are also summarised in column format as part of the export function (see section 11).

ACC Patient Status Report	
Record GYMU-0222	
ENSAT Stage:	III (T4N0M0)
Age at first diagnosis:	46
Last follow-up :	2013-12-05
Overall survival:	1938 days (5 years)
Lost to follow-up:	No
Patient alive:	Yes
Resection status:	R0
Disease-free survival (time to first recurrence):	900 days
History of recurrence:	Yes

Figure 19: example patient status report

7.4 Pheo/NAPACA – transfer to PMT

In Pheo and NAPACA, a patient can be transferred to the PMT study by automatic update. To do this, click on the link in the record listing **Transfer to PMT** and a page will be shown detailing the basic patient information that will be transferred and asking for the main inclusion reason and date (figure 20).

Pheo Transfer to PMT	
Record GYMU-0024	
Are you sure you want to transfer this record to the PMT study?	
Year of Birth:	1950
Sex:	M
Center ID:	GYMU
Referral Doctor:	Felix Beuschlein
Email:	felix.beuschlein@med.uni-muenchen.de
Date of ENSAT Registration:	1996-02-07
Level of consent for clinical research (Local, National, ENSAT, International):	National
Main Inclusion Criteria:	[Select...]
Date of informed consent:	<input type="text"/>
<input type="button" value="Transfer Record"/>	

Figure 20: example transfer of patient to PMT study

Add this information and confirm to transfer to the PMT database. If the patient has already been transferred, the appropriate page will be displayed preventing a multiple transfer.

7.5 NAPACA – transfer to other sections

It is possible for NAPACA tumors to develop into one of the other three types in the registry. If this happens and the patient record must be re-classified, three links are available in the right-most column of the patient listing in NAPACA to allow this (ACC, Pheo and APA). Click on the appropriate link and a confirmation page will appear (figure 21).

Registry Transfer	
Record GYMU-0044	
Are you sure you want to transfer this record to ACC?	
Year of Birth:	1970
Sex:	F
Center ID:	GYMU
Referral Doctor:	Felix Beuschlein
Email:	felix.beuschlein@med.uni-muenchen.de
Date of ENSAT Registration:	2011-03-10
Level of consent for clinical research (Local, National, ENSAT, International):	European ENSAT Partners
<input type="button" value="Transfer Record"/>	

Figure 21: example of transfer of patient from NAPACA to ACC

Confirm this transfer of information and the patient will be re-classified as the new type. As much relevant data will be transferred as possible and a record of the patient's NAPACA history will maintained.

8. Delete a record

To delete any records that you own, from the database home page, click on the **Delete** link shown in the record. You will be taken to a summary page of the main information for that patient and asked to confirm the deletion (figure 22).

ENSAT - European Network for ...
https://registry.ensat.org/jsp/delete/delete_view.jsp?dbid=1&dbn=ACC&pid=5¢erid=GYWU

ensat registry
 welcome to the ensat website

ENSAT Home | ACC Home | ACC Search | ACC Exported Data | Welcome, Anthony | Sign Out

ACC Delete
Record 0005

NOTE: Are you sure you want to delete this record? Once deleted it cannot be recovered.

Record Date:	19 Apr 2011
ENSAT ID Number:	GYWU-0005
Year of birth:	1977
Sex:	F
Center ID:	GYWU
Referral Doctor:	Martin Fassnacht
Date of ENSAT registration:	03 Jun 2003
Level of consent for clinical research:	National

Diagnostic Procedures (at time of primary diagnosis)

Disease Status at time of registration:	
Date of initial ACC diagnosis:	06 Apr 2001
Modality of diagnosis:	Pathology
Associated Malignancy:	No
Specific Malignancy:	
Occurrence during pregnancy:	No
Height (cm):	0
Weight (kg):	0
BMI:	0
Symptoms related to tumor mass:	No
Incidentally detected:	No
Related to unspecific paraneoplastic symptoms:	No
Symptoms related to hormonal secretion:	Yes
Cushing's Syndrome:	Yes
Virilization:	No
Feminization:	No
Mineralocorticoid excess:	Unknown
Hormonal Hypersecretion:	Yes
Glucocorticoids:	Yes

Figure 22: summary information page before record deletion

Note that when a record is deleted all the associated record information is deleted as well. Be careful when using this option as any data deleted here cannot be recovered.

9. Search records

Note: the output of this search function is strictly controlled according to the ENSAT registry security policy, which is published in a separate document available from the home page.

To search records in a particular section, click on the relevant search link at the top of the page (e.g. **ACC Search**). You will be taken to the search home page for that section. This page is split into two areas on the left of the screen: **Conditions to apply** (figure 23) and **Parameters to view** (figure 24).

Conditions to apply

In this section, select the conditions that you wish to apply to your query. Continuous types - such as dates and numbers - have an option to put in start and end values. If you enter only a start or only an end value, the query will run with only that option as a >/< comparator.

(e.g. if you entered a start value of "1970" for year of birth, then the query will return all records with year of birth > 1970)

Click on a table to show the input options

[Identification](#)

Identification	
Year of Birth	<input type="text"/> to: <input type="text"/>
Sex	<input type="text" value="M"/>
Center ID	<input type="text" value="[Select...]"/>
Referral Doctor	<input type="text" value="F"/>
Email	
Date of ENSAT Registration	<input type="text"/> to: <input type="text"/>

Figure 23: example of conditions to apply to a search

Parameters to view

In this section, select the parameters (up to a maximum of 6) that you want to view the output of based on the query that you are running.

Click on a table to show the check-box options

[Identification](#)

Identification	
Year of Birth	<input checked="" type="checkbox"/>
Sex	<input checked="" type="checkbox"/>
Center ID	<input checked="" type="checkbox"/>
Referral Doctor	<input checked="" type="checkbox"/>
Email	<input type="checkbox"/>
Date of ENSAT Registration	<input checked="" type="checkbox"/>
Level of consent for clinical research (Local, National, ENSAT, International)	<input type="checkbox"/>
Associated studies	<input type="checkbox"/>

Figure 24: example of selecting parameters to view in a search

9.1 Search parameters and criteria input

In **Conditions to apply**, the user adds what criteria they wish the search to be conducted over (e.g. treatment='mitotane'; date of birth < 1979; weight > 100 kg). All of the parameters that are in the database are presented here and have inputs depending on their type (text field, menu, number or date). For continuous variables (number and date), start and end-points are provided – to set a lower bound only, put information into the left-most box only; to set an upper bound only, put information into the right-box only; to define a range, enter information into both. Input into menu boxes perform exact text matching, whereas input into text matching performs wildcard-matching (any text containing that string will be returned as well as exact matches).

In **Parameters to view**, select all the parameters that you would like displayed in the result matrix. For reasons of space on the screen, the maximum shown will be 6.

Both parameters and conditions are divided into the tables that each belong to, and which can be hidden and shown as required.

9.2 Search results

The results of the search will be displayed in the right panel of the search screen. In the top section are summary results including: summary of the query (parameters and conditions), a distribution of the results across centers and a distribution across countries (figure 25).

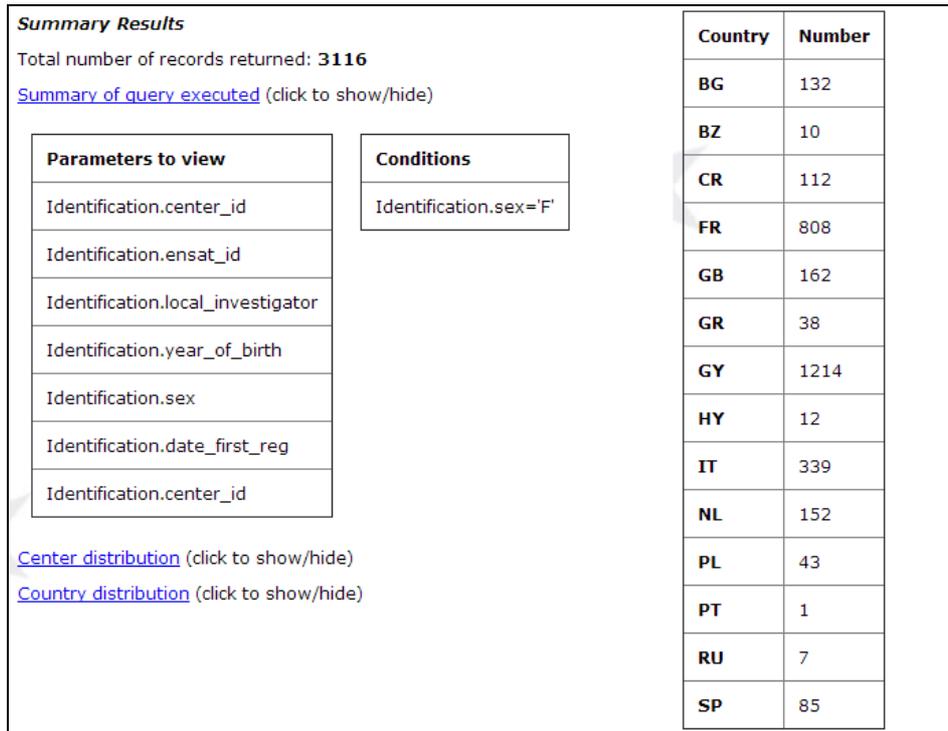


Figure 25: example of summary results with query summary shown and country distribution shown on the right (tables are actually arranged vertically in the registry)

In the section below this on the right, is a detailed output of the results (figure 26). This shows the parameters to view in columns and paged to 100 per view (page results displayed above the table).

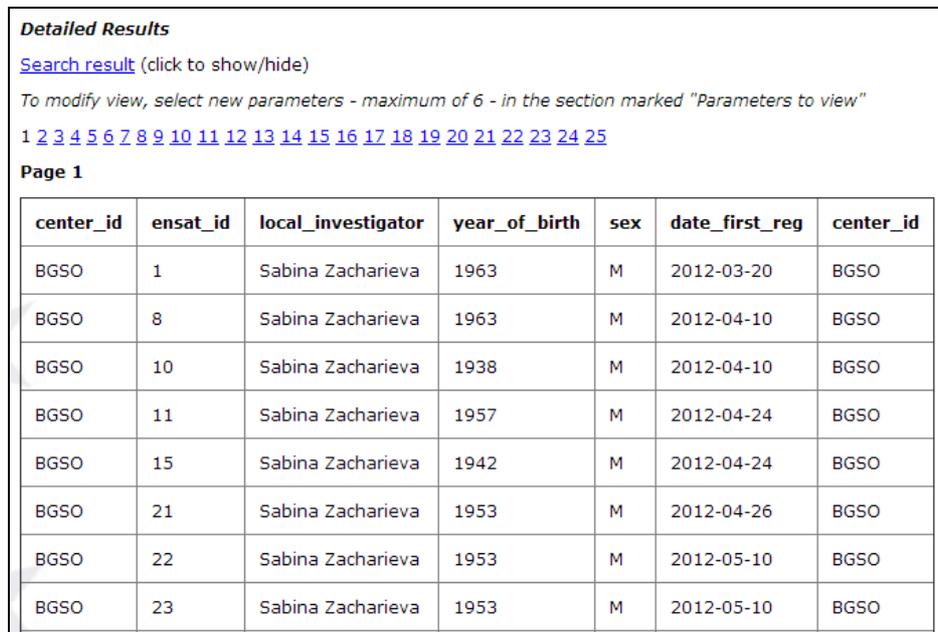


Figure 26: detailed result output from a new query

10. Export Records

Note: the output of this export function is strictly controlled according to the ENSAT registry security policy, which is published in a separate document available from the home page. In particular it may be the case that an export query appears to be available to you, but you are only seeing a restricted view of it due to your privilege level.

To export data from the registry into a spreadsheet that you can view locally, click on **Export** in the navigation bar. A set of options for bulk export are provided at the export home page:

- All your records
- All records belonging to your center
- All records belonging to your country
- All records belonging to a particular tumor type
- Records from a particular stored query (which has been set up previously)
- Records from a particular study (of those supported in the registry)

Selecting any of these options will take you to a page summarising the query to be exported, the estimated time it will take, and a list of IDs to be exported (figure 27). In the list you can either select all patient IDs, or you can select from a list of the centers, which will add that group to the export list. By default no IDs are selected, so a choice must be made.

Export Patient Record Set

You have chosen to export all of your records from the **eurineact** study.

The following list of patient IDs will be returned with this export. Select those that you would like to be part of

The query will take approximately **2** minutes to process.

Select all Select center GYBN

BGSO-0008	<input type="checkbox"/>	FRPA2-0054	<input type="checkbox"/>	GBBI-0125	<input type="checkbox"/>	GRAT-0059	<input type="checkbox"/>	GYBN-0284	<input checked="" type="checkbox"/>	GYMU-0312	<input type="checkbox"/>	C
BGSO-0009	<input type="checkbox"/>	FRSQ-0001	<input type="checkbox"/>	GBBI-0126	<input type="checkbox"/>	GRAT-0060	<input type="checkbox"/>	GYBN-0285	<input checked="" type="checkbox"/>	GYMU-0313	<input type="checkbox"/>	C
BGSO-0010	<input type="checkbox"/>	GBBI-0006	<input type="checkbox"/>	GBBI-0127	<input type="checkbox"/>	GRAT-0061	<input type="checkbox"/>	GYBN-0286	<input checked="" type="checkbox"/>	GYMU-0314	<input type="checkbox"/>	C
BGSO-0011	<input type="checkbox"/>	GBBI-0026	<input type="checkbox"/>	GBBI-0128	<input type="checkbox"/>	GYBN-0004	<input checked="" type="checkbox"/>	GYBN-0287	<input checked="" type="checkbox"/>	GYMU-0315	<input type="checkbox"/>	C
BGSO-0014	<input type="checkbox"/>	GBBI-0027	<input type="checkbox"/>	GBBI-0130	<input type="checkbox"/>	GYBN-0005	<input checked="" type="checkbox"/>	GYBN-0288	<input checked="" type="checkbox"/>	GYMU-0318	<input type="checkbox"/>	C
BGSO-0015	<input type="checkbox"/>	GBBI-0028	<input type="checkbox"/>	GBBI-0131	<input type="checkbox"/>	GYBN-0006	<input checked="" type="checkbox"/>	GYBN-0289	<input checked="" type="checkbox"/>	GYMU-0326	<input type="checkbox"/>	C
BGSO-0020	<input type="checkbox"/>	GBBI-0030	<input type="checkbox"/>	GBBI-0132	<input type="checkbox"/>	GYBN-0007	<input checked="" type="checkbox"/>	GYBN-0290	<input checked="" type="checkbox"/>	GYMU-0336	<input type="checkbox"/>	C
BGSO-0027	<input type="checkbox"/>	GBBI-0031	<input type="checkbox"/>	GBBI-0133	<input type="checkbox"/>	GYBN-0008	<input checked="" type="checkbox"/>	GYBN-0291	<input checked="" type="checkbox"/>	GYMU-0339	<input type="checkbox"/>	C
BGSO-0029	<input type="checkbox"/>	GBBI-0032	<input type="checkbox"/>	GBBI-0134	<input type="checkbox"/>	GYBN-0009	<input checked="" type="checkbox"/>	GYBN-0292	<input checked="" type="checkbox"/>	GYMU-0341	<input type="checkbox"/>	C
BGSO-0030	<input type="checkbox"/>	GBBI-0033	<input type="checkbox"/>	GBBI-0135	<input type="checkbox"/>	GYBN-0010	<input checked="" type="checkbox"/>	GYBN-0293	<input checked="" type="checkbox"/>	GYMU-0343	<input type="checkbox"/>	C
BGSO-0031	<input type="checkbox"/>	GBBI-0034	<input type="checkbox"/>	GBBI-0137	<input type="checkbox"/>	GYBN-0011	<input checked="" type="checkbox"/>	GYBN-0297	<input checked="" type="checkbox"/>	GYMU-0352	<input type="checkbox"/>	C
BGSO-0032	<input type="checkbox"/>	GBBI-0035	<input type="checkbox"/>	GBBI-0138	<input type="checkbox"/>	GYBN-0012	<input checked="" type="checkbox"/>	GYBN-0298	<input checked="" type="checkbox"/>	GYMU-0357	<input type="checkbox"/>	C

Figure 27: example of patient ID list to be exported. The study is EURINE-ACT and the centers of interest are those in GYBN.

Scroll to the bottom of the page and click Select Patients. You will be redirected to a waiting page (figure 28), then finally to a results page, where a list of all your recently exported files will be shown (figure 29). Click on any of these to download the exported .xlsx file to your local desktop.

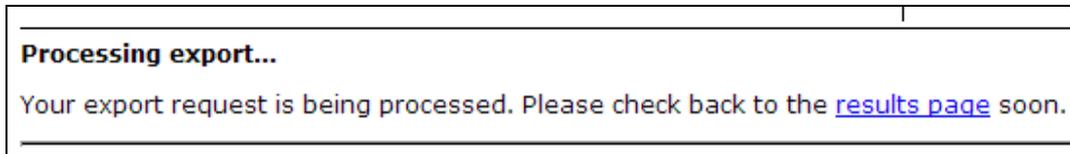


Figure 28: export waiting page



Figure 29: export results listing page

The .xlsx files are arranged by aligned sheet – so all information for a patient will be on one line (multiple forms will be concatenated horizontally) and through all the sheets will match the corresponding ID on the first Identification sheet.

Anthony Stell, University of Melbourne, 1st April 2014