

Shanoir Tutorial for Beginners

Shanoir version 0.4



Bienvenue dans Shanoir	
Nom d'utilisateur	<input type="text"/>
Mot de passe	<input type="password"/>
Se souvenir de moi	<input type="checkbox"/>

Connexion

[Vous avez oublié votre mot de passe?](#)

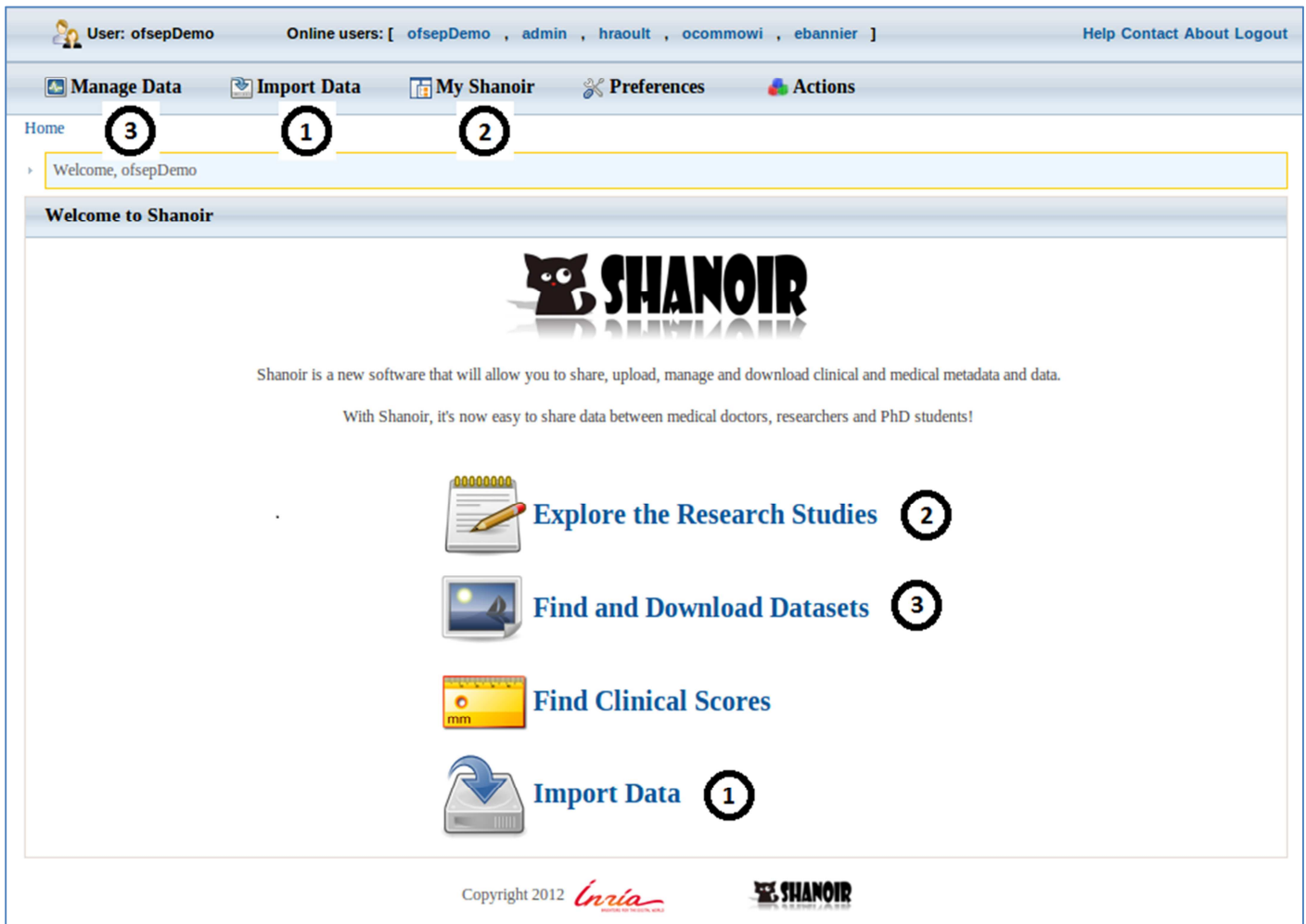
[Demander un compte](#)

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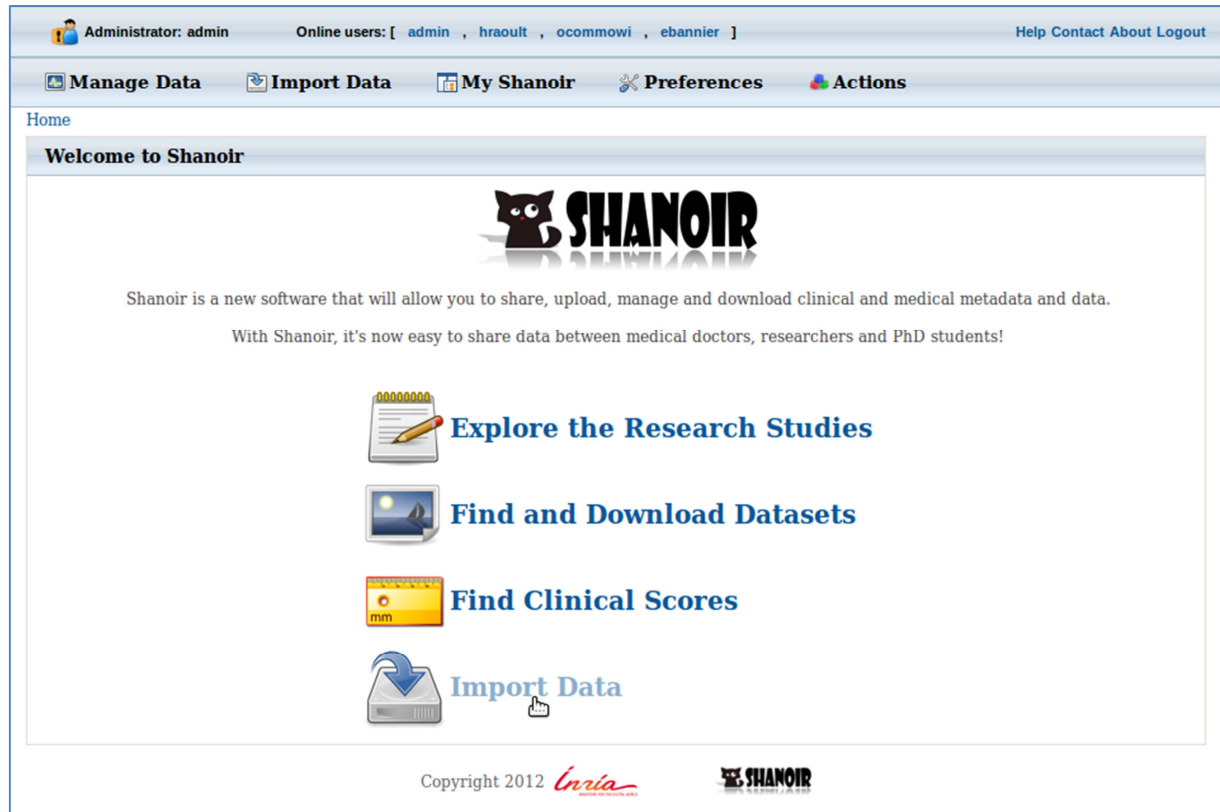
Access to the main functionalities



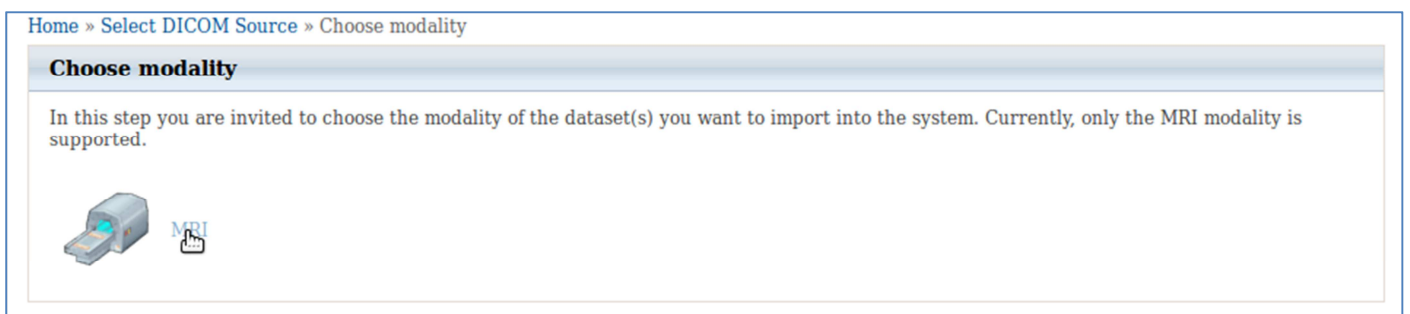
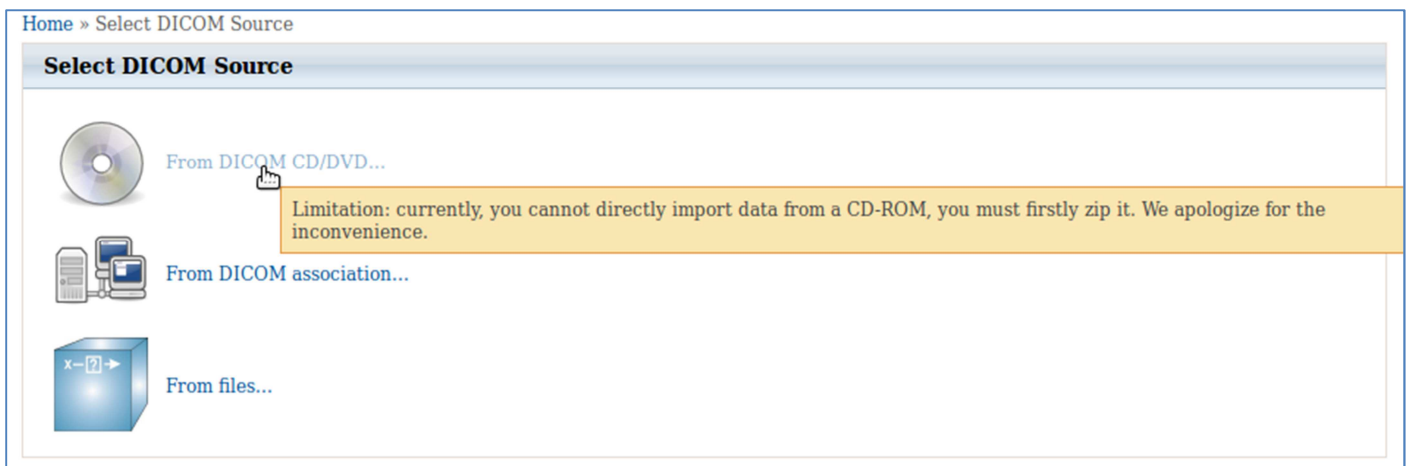
There are several ways to access each functionality in Shanoir :

- 1) Import Data (DICOM, NIFTI, etc.)
 - Menu : "Import Data"
 - Homepage : "Import Data"
- 2) Explore my Studies
 - Menu : "My Shanoir" > "My Research Studies"
 - Menu : "Manage Data" > "Research Studies"
 - Homepage : "Explore the Research Studies"
- 3) Manage, find, download, suppress Datasets
 - Menu : "Manage Data" > "Datasets"
 - Homepage : "Find and Download Datasets"
 - Menu : "My Shanoir" > "My Research Studies" > "MyTestStudy" > "View Dataset" (for a given study "MyTestStudy")

Import Data from a DICOM source



Step 1/6 : Select DICOM Source and Choose modality



Step 2/6 : Select DICOM Archive

Currently we cannot directly import data from a CD-ROM.

First, you need to copy the content of your CD on your computer.


Then select the DICOMDIR file and the images folder, and zip them together.

Reminder : DICOM archive = zip of (DICOMDIR + Image folder)

Home » Select DICOM Source » Choose modality » Select DICOM archive

Select DICOM archive


Please select a DICOM zip archive to import.

 Important notice: this archive must contain a DICOMDIR file at its root!

Home » Select DICOM Source » Choose modality » Select DICOM archive

Select DICOM archive

Please select a DICOM zip archive to import.


 Important notice: this archive must contain a DICOMDIR file at its root!

CHLS.zip

29MB from 67MB uploaded --- 0:3

Home » Select DICOM Source » Choose modality » Select DICOM archive

Select DICOM archive

The dicom archive has been successfully uploaded 

Step 3/6 : Select series

Home » Select DICOM Source » Choose modality » Select DICOM archive » Series selection

Select series

1.3.46.670589.11.42025.5.0.7276.2013022011541876158

☐ IRM CEREBRALE

b743f046-ff42-4322-a644-69ccc02c4da7

☒ IRM CEREBRALE

1 ☒ [MR] 3D T1_TFE - 20/02/2013

☒ [MR] DTI_32 DIR (TRACTO) - 20/02/2013


☒ [MR] 3D FLAIR - 20/02/2013

☒ [MR] AX DUAL ECHO (DP/T2) - 20/02/2013

☒ [MR] 3D T1_TFE GD - 20/02/2013

Study	
Property	Value
Id	1.3.46.670589.11.42025.5.0.7276.2013
Description	IRM CEREBRALE
Date	20130220

Thumbnail



Cancel Next 2

- 1) Select what you want to import : the whole examination or several datasets
- 2) Click on "Next"

Step 4/6 : Set the content

About the study

Home » Select DICOM Source » Choose modality » Select DICOM archive » Series selection » Set the context

Research Study

Select an existing research study:* OFSEP_Pilot_CHLS 1

Select an existing study card* OFSEP_Pilot_CHLS (Philips Healthcare Ingenia 3.0T(MR) 42025 - HCL - CHLS - HCL - CHLS) 2



- 1) Select the study in which you want to import
- 2) Verify that the good acquisition equipment (MRI model) is selected

About the subject


If it is the first examination of the subject that you import

Single subject Experimental group of subjects

Select a subject already in the research study Create a new subject 1

In the first place, you need to create a new subject... 2

Cancel Next



- 1) Select "Create a new subject"
- 2) Click on the link

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Home » Select DICOM Source » Choose modality » Select DICOM archive » Series selection » Set the context » Edit Subject

Edit Subject

General

Imaged object category:

Is the subject already anonymized?: ☐ Yes ☒ No

A subject global identifier will be automatically generated using the first name, the last name and the birth date of the subject. This can help you to identify a subject that has already been inserted into the database.
To ensure anonymity, the first name and the last name will not be saved. Notice that the birth Date will be set to the 1st of January of the birth Year for the same reason.

First Name:

Last Name:

Birth Date:

Common name:

Sex:

Language Hemispheric Dominance:

Manual Hemispheric Dominance:

Personal Comments:

(This is what you obtain when you arrive on the page)

First Name:

Last Name:

Birth Date:

Common name: **1**

Sex:

Language Hemispheric Dominance:

Manual Hemispheric Dominance:

Personal Comments: **2**

(This is what you need to do)

- 1) Enter the "Common name", i.e. the ID of the subject
Follow the pattern that was given to you.
- 2) Please remove the name of the subject from the "personal comments", this field is registered in the database

If it is not the first examination that you import for this subject

Single subject Experimental group of subjects

☐ Select a subject already in the research study ☐ Create a new subject

Select a subject: Please select... details

Cancel Next

Just select the subject

About the examination

Home » Select DICOM Source » Choose modality » Select DICOM archive » Series selection » Set the context

Successfully created

The subject CHLS_001 has been created.

Research Study

Select an existing research study: * OFSEP_Pilot_CHLS details

Select an existing study card * OFSEP_Pilot_CHLS (Philips Healthcare Ingenia 3.0T(MR) 42025 - HCL - CHLS - HCL - CHLS) edit details

Single subject Experimental group of subjects

☐ Select a subject already in the research study ☒ Create a new subject

Created subject: CHLS_001

Please fill the details on the subject:

Common name	Subject identifier for this research study	Is physically involved	Subject Type
CHLS_001	-----	<input checked="" type="checkbox"/>	Please select... 1

MR Examination

☐ Select an existing MR Examination ☒ Create a new MR Examination

Research study: * OFSEP_Pilot_CHLS details

Subject: * CHLS_001 details

Center: * HCL - CHLS details

External examination executive: ☐

Examination executive: * François Cotton ? details Create a new investigator... 2

Examination date: * 20/02/2013 00:00

Comment: IRM CEREBRALE ? 3

Cancel Next 4



- 1) Precise if the subject is a "Patient" or an "Healthy volunteer"
- 2) Name the investigator of the examination
(if you don't find yours, put something and contact your Shanoir-admin)
- 3) Name your examination
Ex : "IRM CEREBRALE", "IRM MOELLE", "M0", "M12", ...
- 4) Click on "Next"

Step 5/6 : Anonymization, Conversion to the NIFTI file format and sending to a PACS Server

Home » Select DICOM Source » Choose modality » Select DICOM archive » Series selection » Set the context » Anonymize

Successfully created


Anonymize

 Important 

Data is now about to be anonymized. That means that some fields will be removed from the dataset. If for any reason you want to keep some information about the dataset before its anonymization, you can download a XML file that contains the complete information from the dataset.

	Signification	Initial value	Final value
(0010,0030)	Patient's Birth Date		19820101
(0010,0020)	Patient ID		
(0010,0010)	Patient's Name		CHLS_001
(0010,1000)	Other Patient IDs		
(0010,0032)	Patient's Birth Time		
(0010,1001)	Other Patient Names		
(0010,2160)	Ethnic Group		
(0010,1040)	Patient's Address		
(0010,4000)	Patient Comments		
(0010,21B0)	Additional Patient History		
(0010,2180)	Occupation		

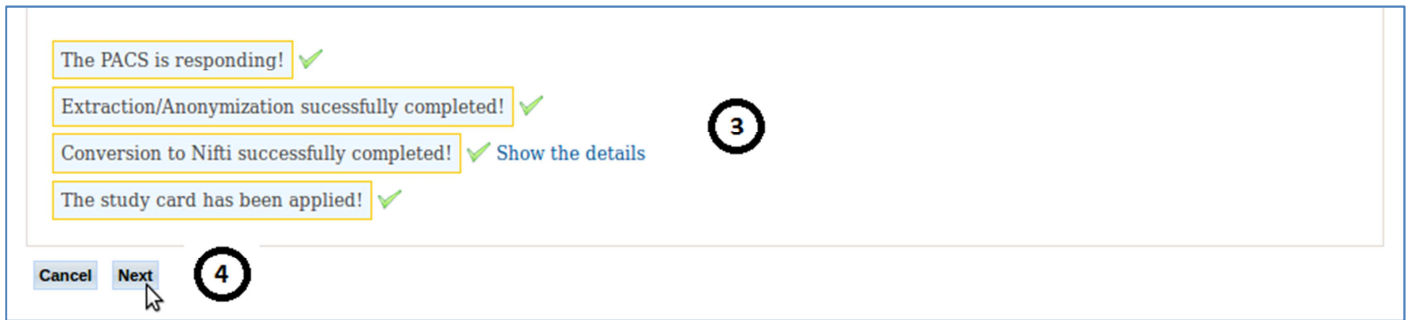
You can receive a sum up of the data to be anonymized by email (only medical staff). You can also print the above table.

 [Print](#) **1**

2

[Cancel](#) [Anonymize](#)

- 1) [Optional] If you want to keep a trace of the anonymization, you can print this page by clicking here
- 2) Click on "Anonymize"

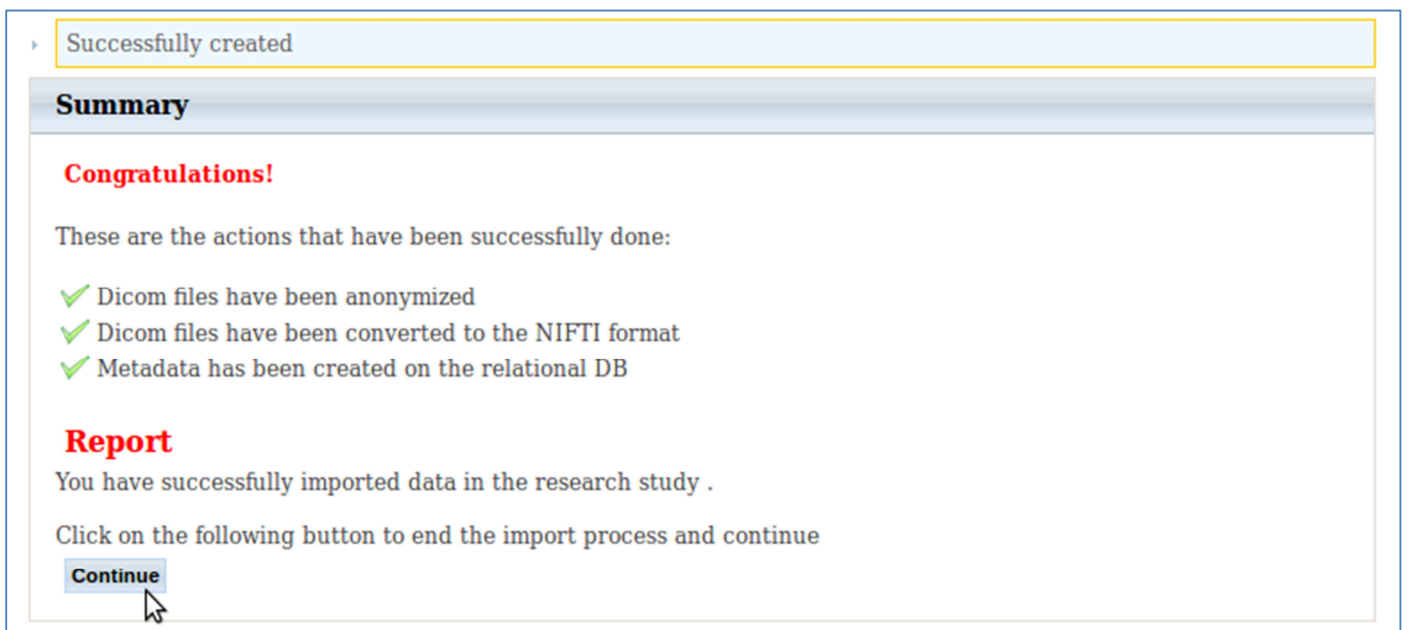


- 3) Wait a little, it's running
- 4) Click on "Next"

Step 6/6 : Select study card



Just click on "Finish"



Congratulations !

You can click on "Continue" (redirection to the homepage) or click on "Import Data" to import a new examination.

View a Dataset

Home » » Details on the research study

Details

Id:	60
Name:	OFSEP_Pilot_Marseille
Status:	in_progress
Start date:	01/01/2013
End date:	31/07/2013
Is with examination:	true
Is clinical:	false
Visible by default:	false
Data downloadable by default:	false
Multi-centers:	true
Coordinator:	Gilles Edan

Subjects

- AC-P05 (Patient)
- AM-P22 (Patient)
- BC-P03 (Patient)
- BP-P18 (Patient)
- CC-P14 (Patient)
- CG-P30 (Patient)
- CT-P29 (Patient)
- GC-P28 (Patient)
- IC-P23 (Patient)
- MA-P16 (Patient)
- Experimental Groups (is associated to)
- Principal investigators and Centers (takes place in and with)
- Study cards
- Members
- Protocole files (0)

Back

Home » » Details on the research study

Details

Id:	60
Name:	OFSEP_Pilot_Marseille
Status:	in_progress
Start date:	01/01/2013
End date:	31/07/2013
Is with examination:	true
Is clinical:	false
Visible by default:	false
Data downloadable by default:	false
Multi-centers:	true
Coordinator:	Gilles Edan

Subjects

- AC-P05 (Patient)
- AM-P22 (Patient)
- BC-P03 (Patient)
 - 18/03/2010, M0 (id = 2100)
 - MPRage (Mr)
 - T2_Axial (Mr)
 - 3D_Flair_Sag (Mr)
 - 3D_Flair_Sag + (4)
 - Diff_64d_ADC (Mr)
 - Diff_64d_FA (Mr)
 - T1_Tra_pré (Mr)
 - T1_Tra_pOST (Mr)
 - 21/04/2011, M12 (id = 2101)
- BP-P18 (Patient)
- CC-P14 (Patient)
- CG-P30 (Patient)
- CT-P29 (Patient)
- GC-P28 (Patient)
- IC-P23 (Patient)
- MA-P16 (Patient)
- Experimental Groups (is associated to)
- Principal investigators and Centers (takes place in and with)
- Study cards
- Members
- Protocole files (0)

Back

Access the research study of your dataset (see page 3), and

- 1) Unfold the Subject (Click on the triangle icon)
- 2) Unfold the Examination
- 3) Unfold the Acquisition Dataset
- 4) Click on the Dataset

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Home » » Details on the research study » Details on dataset

Details

Id:	63615
Type:	Mr
Name:	3D_Flair_Sag
Comment:	3D_Flair_Sag
MR dataset nature:	T2WeightedMRDataset
Creation date:	18/03/2010 00:00
Subject:	BC-P03
Group of subjects:	
Processed dataset type:	ReconstructedDataset
Dataset modality type:	MR Dataset
Cardinality of related subjects:	Single-Subject Dataset
Explored entity:	Anatomical Dataset
Is result of:	OFSEP_Pilot_Marseille
Echo time:	311.0 ms;echo number=1
Repetition time:	5,000 ms
Inversion time:	2200.0 ms
Flip angle:	120.0 degrees
Can be superimposed with:	

Show acquisition parameters **C**

Show details **5**

 View the DICOM images stored on the PACS Server

 Download Nifti files **A**

 Download the Dicom files for this dataset **B**

 Download Xml

Back


Home » » Details on the research study » Details on dataset


Details


Id:	63615
Type:	Mr
Name:	3D_Flair_Sag
Comment:	3D_Flair_Sag
MR dataset nature:	T2WeightedMRDataset
Creation date:	18/03/2010 00:00
Subject:	BC-P03
Group of subjects:	
Processed dataset type:	
Dataset modality type:	
Cardinality of related subjects:	
Explored entity:	
Is result of:	
Echo time:	
Repetition time:	
Inversion time:	
Flip angle:	
Can be superimposed with:	


Show acquisition parameters

Show details

 View the DICOM images **7**

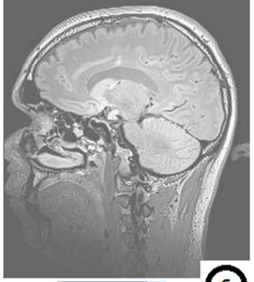
 Download Nifti files

 Download the Dicom files for this dataset **B**


 Download Xml


Back

List of images (Retrieved by WADO from the PACS)



84 / 192 **6**

 Download this image in the DICOM file format

 Download this image in the JPEG file format

- 5) Click on “View the DICOM images”
- 6) Click on the arrows to scroll images or enter a number
- 7) Click on the cross to close the windows

Bonus : on this page you can also

- A) Download this dataset in Nifti format
- B) Download this dataset in Dicom format (see also next page)
- C) See acquisition parameters of this dataset

See acquisition parameters of a dataset

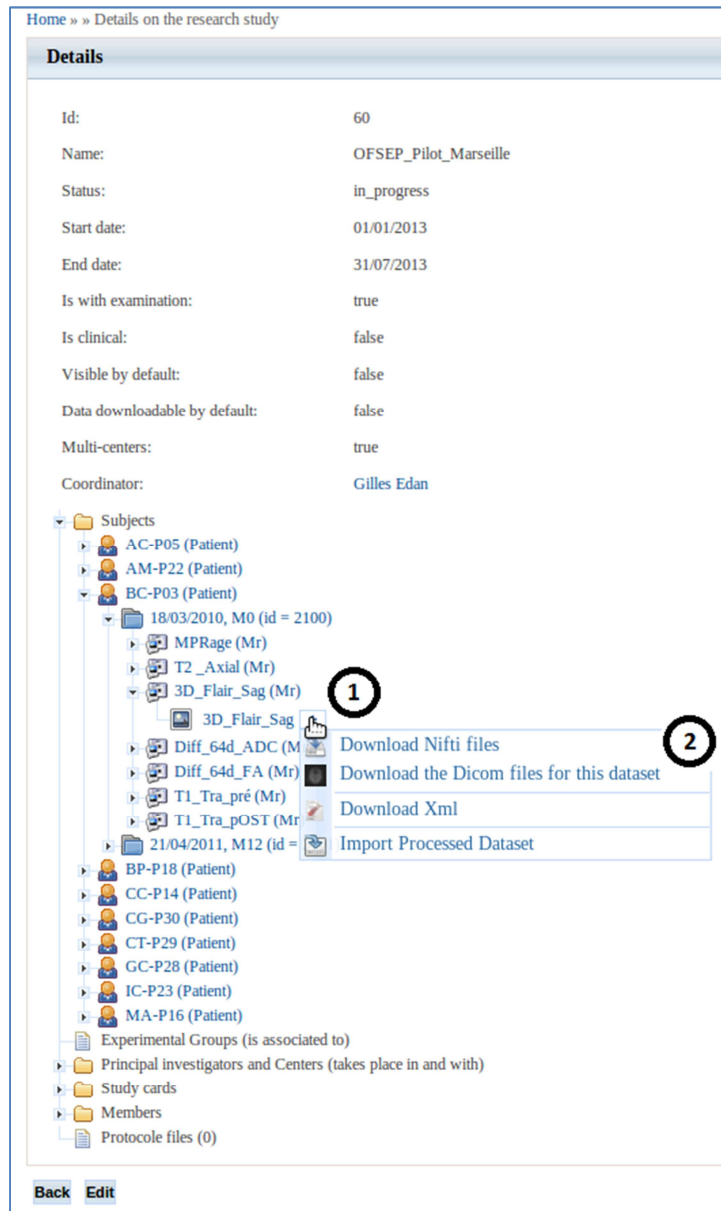
See “Bonus”, item C (just above).

Download Datasets in DICOM / Nifti format

First method : download one by one

See page 12.

Second method : download one by one

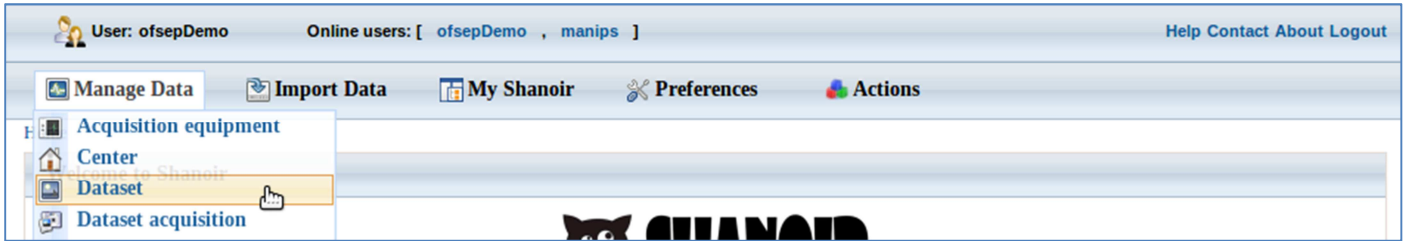


Access the research study of your dataset (see page 3)

Unfold the Subject, the Examination, the Acquisition Dataset (see page 11)

- 1) Pass on the “plus” icon
- 2) Click on “Download the Dicom files for this datasets” or “Download Nifti files”

Third method : download in batch



The screenshot shows the 'Manage Datasets' page. The 'General criteria' section includes fields for 'Study name' (1), 'Dataset name' (2), 'Examination comment', 'Dataset creation date' (From/To), and 'Subject name' (3). The 'Search Datasets' button (4) is highlighted. Below the search criteria, the 'Dataset list' table is shown with columns: Id, Name, Type, Subject, Is result of, Creation date, Comment, Action, and a 'Select' checkbox (5). The table contains two rows of data for 'tse_vfl_WIP607' with subject '06015HUBY'.

Id	Name	Type	Subject	Is result of	Creation date	Comment	Action	Select
72504	tse_vfl_WIP607	Mr	06015HUBY	OFSEP_Test_Lyon	04/03/2010	tse_vfl_WIP607	[Icons]	<input type="checkbox"/>
72503	tse_vfl_WIP607	Mr	06015HUBY	OFSEP_Test_Lyon	04/03/2010	tse_vfl_WIP607	[Icons]	<input type="checkbox"/>

Fill the criteria of your datasets research :

- 1) Study name
- 2) Dataset name : "%" is a wildcard, it can replace any character

Ex : "%T1%" → dataset name that contains "T1" ;

"ASL%" → dataset name that starts with "ASL"

- 3) Subject name, ...

Run your research and select your data

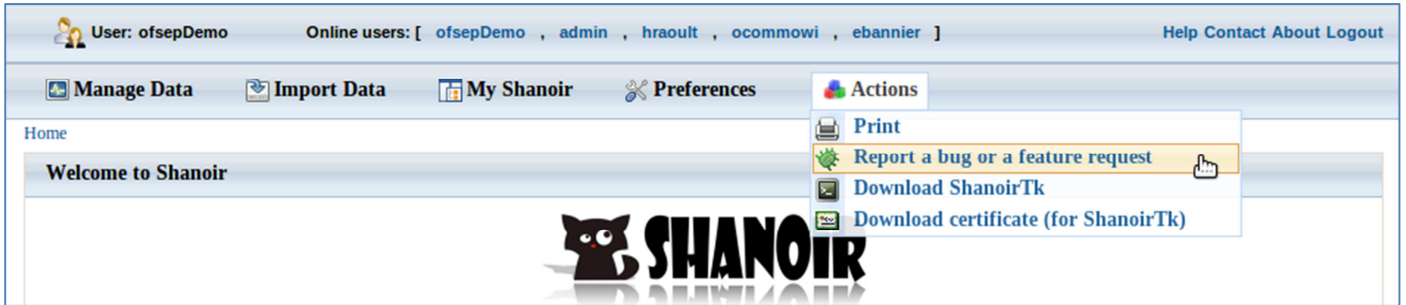
- 4) Click on "Search Datasets"
- 5) Select the datasets you want to download :
 - Click on "Select all" or
 - Check the datasets one by one

The screenshot shows the 'Search Datasets' page with the 'Dataset list' table. A context menu is open over the table, showing options: 'Add as data of', 'Delete', 'Download Nifti files', and 'Download the Dicom files for this dataset' (7). The 'Deselect all' button (6) is also visible in the top right corner of the table.

Id	Name	Type	Subject	Is result of	Creation date	Comment	Action	Select
72504	tse_vfl_WIP607	Mr	06015HUBY	OFSEP_Test_Lyon	04/03/2010	tse_vfl_WIP607	[Icons]	<input checked="" type="checkbox"/>
72503	tse_vfl_WIP607	Mr	06015HUBY	OFSEP_Test_Lyon	04/03/2010	tse_vfl_WIP607	[Icons]	<input checked="" type="checkbox"/>

- 6) Pass the mouse on the icon above "Deselect all"
- 7) Click on "Download the Dicom files for this dataset" or "Download Nifti files"

Report a bug



Home » Report a bug or a feature request

Report a bug or a feature request

Welcome to the Feature Request and Bug Report Submission Form. Use this form to request new features or suggest modifications to existing features.
Or you can use the tools of the gForge project :

- > gForge bug-tracker
- > gForge feature request

Select: * ☒ Bug ☐ Feature request

Object: 1

Date of the bug: 2

Description:
 3

Operating system: 4

Web browser:

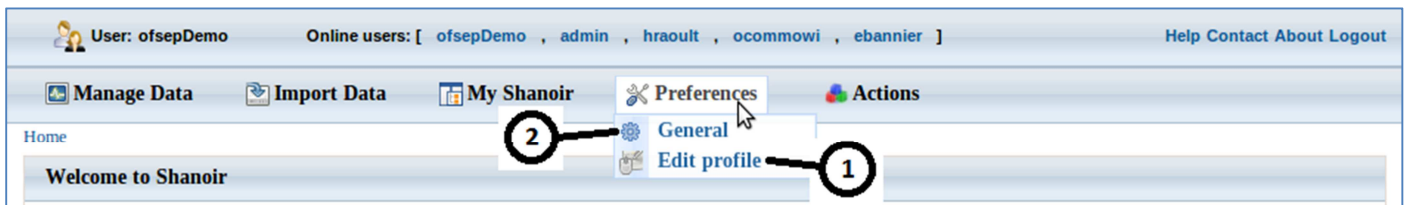
Attachment (max total size: 5 MB):
 5

- 1) What is it about ?
- 2) When (date/time) did it happened ? *[It's important for us in order to check the logfiles]*
- 3) What did you do ?! *[We need this information to reproduce the bug]*
- 4) What type computer do you use (Mac, Windows, Linux) ?
And what is your web browser (IE6, IE7, IE8, Mozilla, Safari, Chrome) ?
- 5) You can add an image of what happened

Change my preferences

Here you can change :

- Your password
- Your email address
- The date format
- The color of the environment (theme)
- The size of the different result lists









1) Preferences > Edit Profile

A screenshot of the 'Edit User' form in the Shanoir web application. The form contains several input fields for user information: Username (filled with 'ofsepDemo'), First Name (filled with 'User'), Last Name (filled with 'OFSEP'), Email (filled with 'shanoir-contact@lists.gforge.inria.fr'), New Password, and Confirm New Password. At the bottom of the form, there are 'Cancel' and 'Save Settings' buttons. The footer of the page includes the copyright notice 'Copyright 2012' and logos for 'Inria' and 'SHANOIR'.

In “Edit profile”, you can change your email address and your password (very important). Don’t forget to “Save settings”.

2) Preferences > General

 **User: ofsepDemo**
Online users: [[ofsepDemo](#) , [admin](#) , [hrault](#) , [ocommowi](#) , [ebanner](#)]
[Help](#) [Contact](#) [About](#) [Logout](#)

 **Manage Data**
 **Import Data**
 **My Shanoir**
 **Preferences**
 **Actions**

[Home](#) » [Edit Preferences](#)

Preferences

General

Choose your default language: English ▼

Choose your favorite theme: glassX ▼

Choose your date format: dd/mm/yyyy ▼

Maximum display size

Center list: 25 ▼

Investigator list: 25 ▼

Subject list: 25 ▼

Research study list: 25 ▼

Experimental group list: 25 ▼

Acquisition equipment list: 25 ▼

Examination list: 25 ▼

MR dataset acquisition list: 25 ▼

Dataset list: 50 ▼

Dataset expression list: 25 ▼

Score list: 25 ▼

You can adjust the size of the table in which the results appear.

Example for here :

Manage Data > Research Study : 25 results by page

Manage Data > Datasets : 50 results by page

Something is not clear ?

You have a question about Shanoir or this tutorial ?

Something major is missing here ?

Please contact us !

shanoir-contact@lists.gforge.inria.fr

You want some more ?

And this tutorial exist also in French.

Ask us for our other tutorials:

“Tutoriel Shanoir pour Débutants” (french)

“Shanoir Tutorial for Beginners” (english)

“Shanoir Tutorial for Experts” (english)

“Tutoriel Study-card Shanoir” (french)

“Tutoriel ShanoirUploader” (french)