


TNO innovation for life

Phenotype Database

Jildau Bouwman


TNO innovation for life

Why a Phenotype Database?

- Multiple analysis methods (clinical chemistry, transcriptomics etc.) used for systems biological questions
- Unpublished (negative) data
- Complex study designs in nutrition
- Lack of power for systems biological questions
- Lack of individual data
- Lack of (study) meta-data (age, BMI, analysis method etc.)

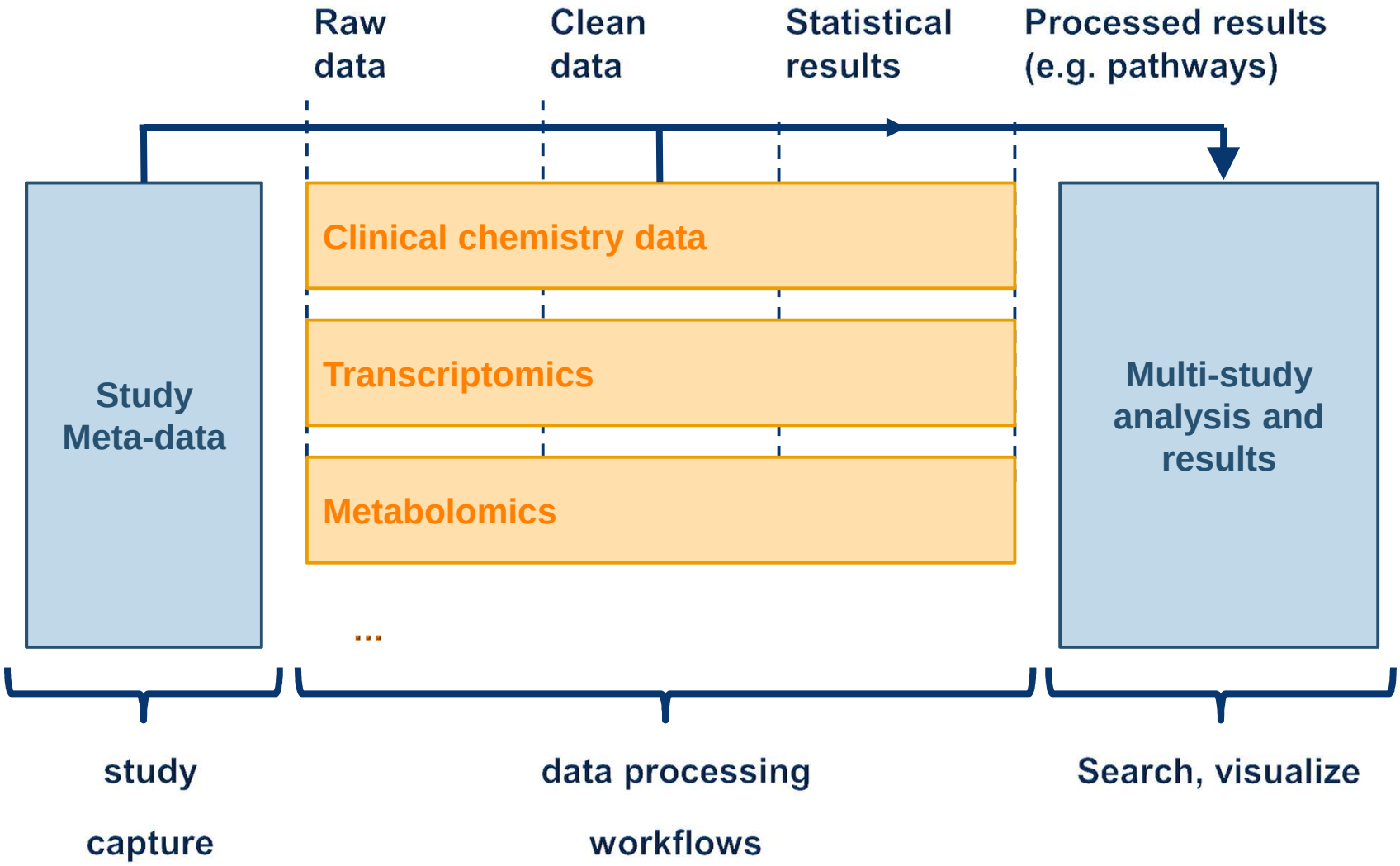
Phenotype database goals

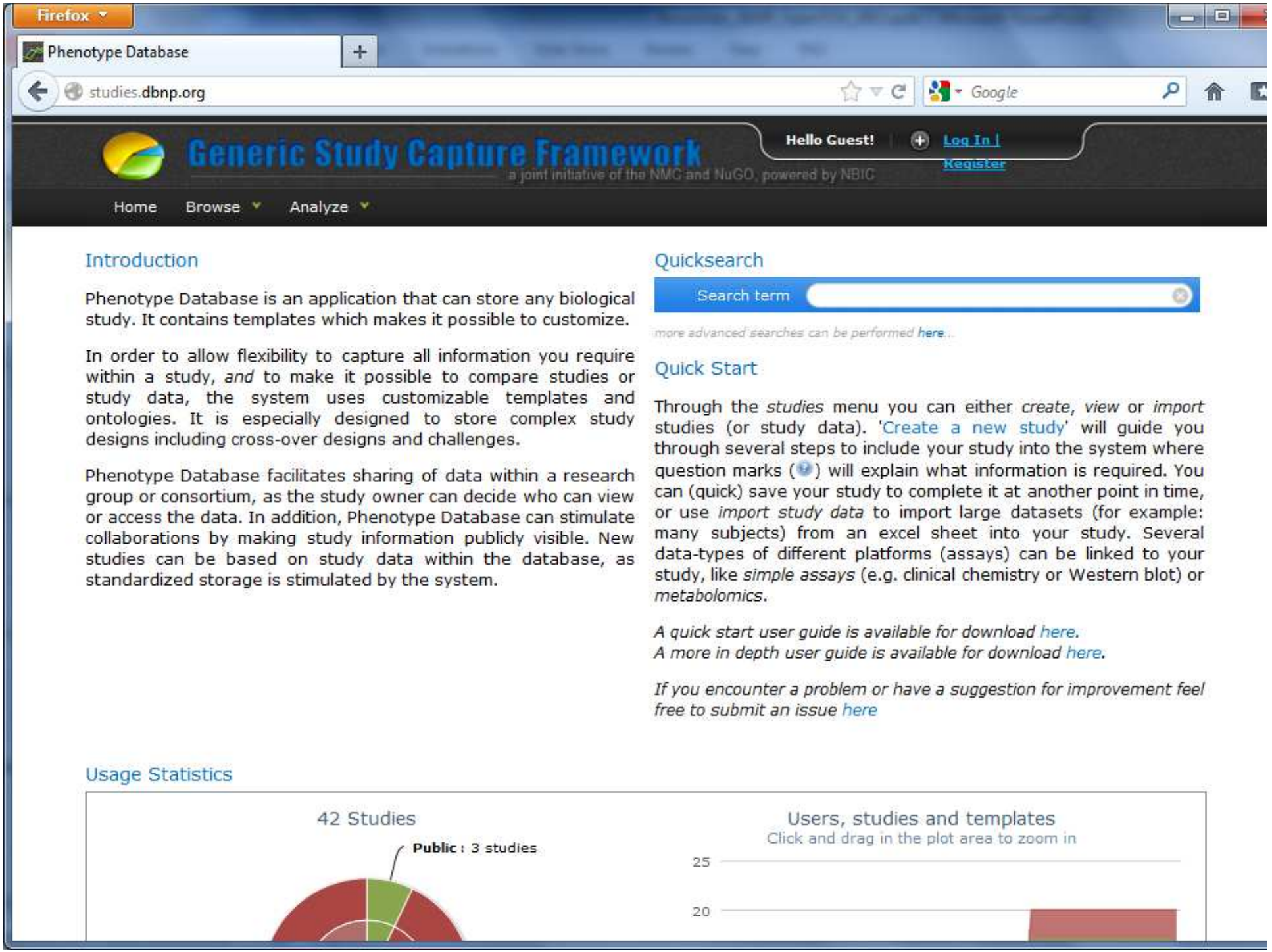
- Collect, harmonize and distribute data
- Already available: a database for mechanistic intervention studies
- Helpdesk function/ training for new users (NuGO)
- Example on how the Phenotype Database works: analysis of the challenge response in several studies

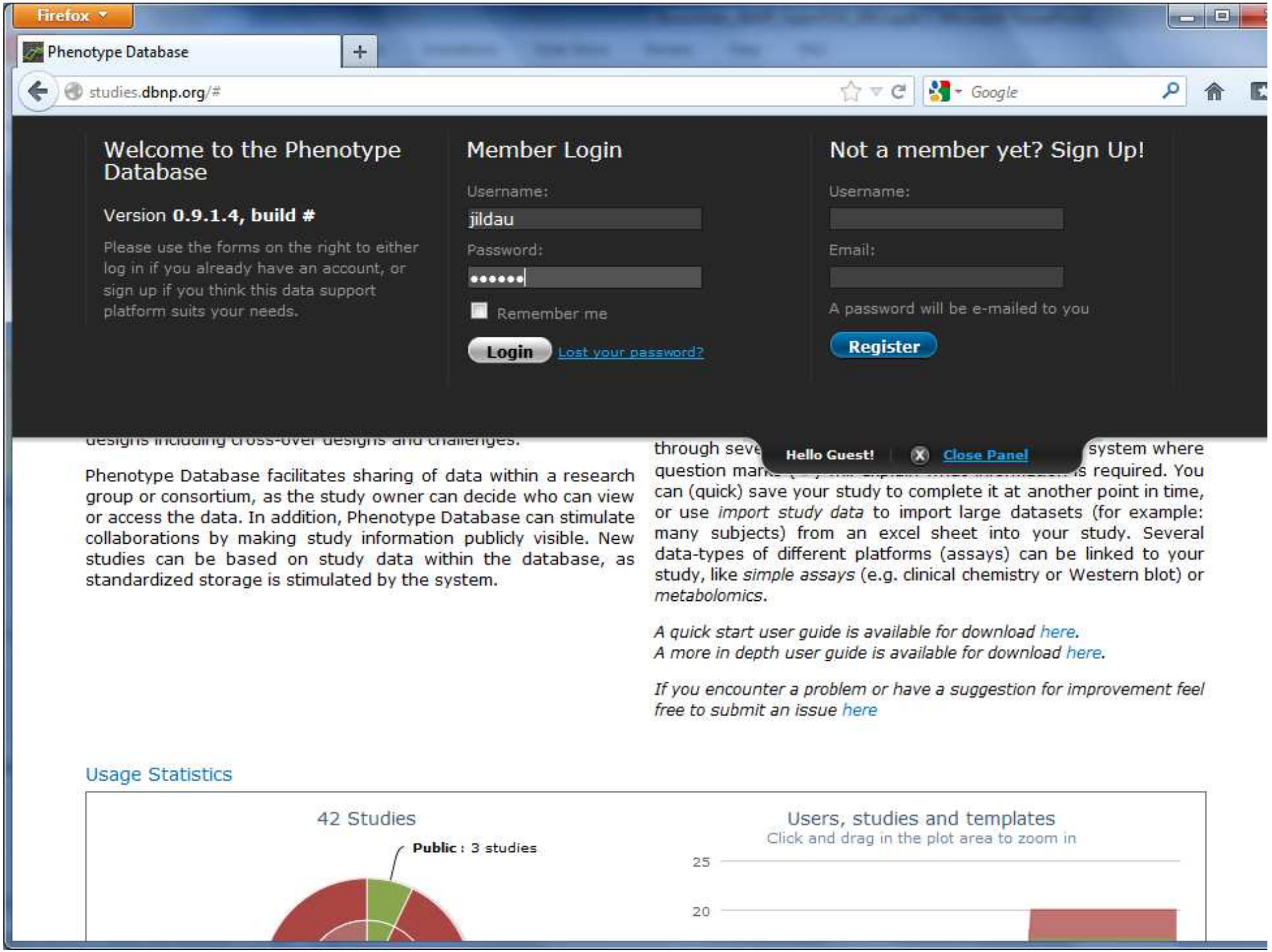
Phenotype database goals

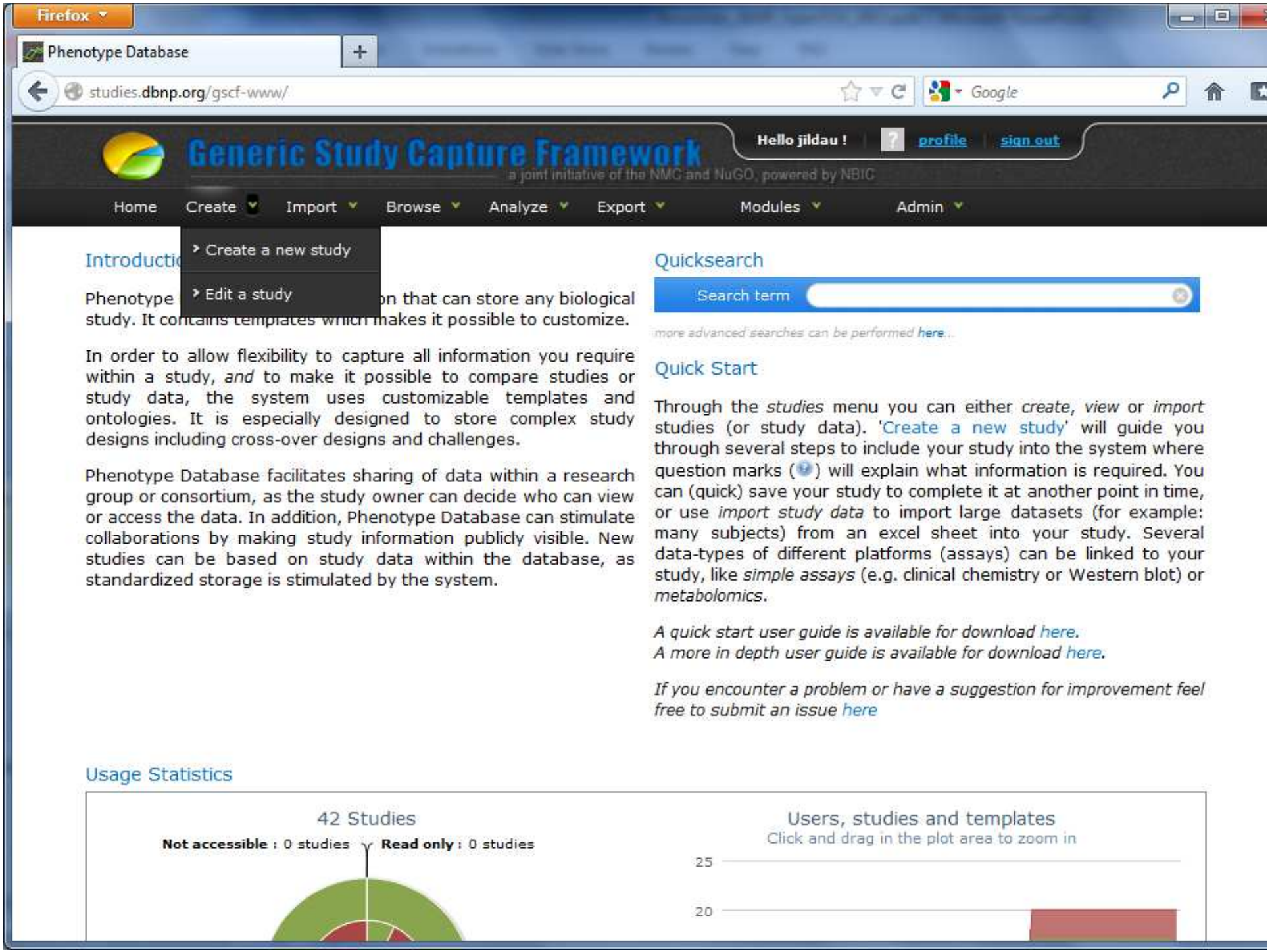
- Collect, harmonize and distribute data
- Already available: a database for mechanistic intervention studies
- Helpdesk function/ training for new users (NuGO)
- Example on how the Phenotype Database works: analysis of the challenge response in several studies

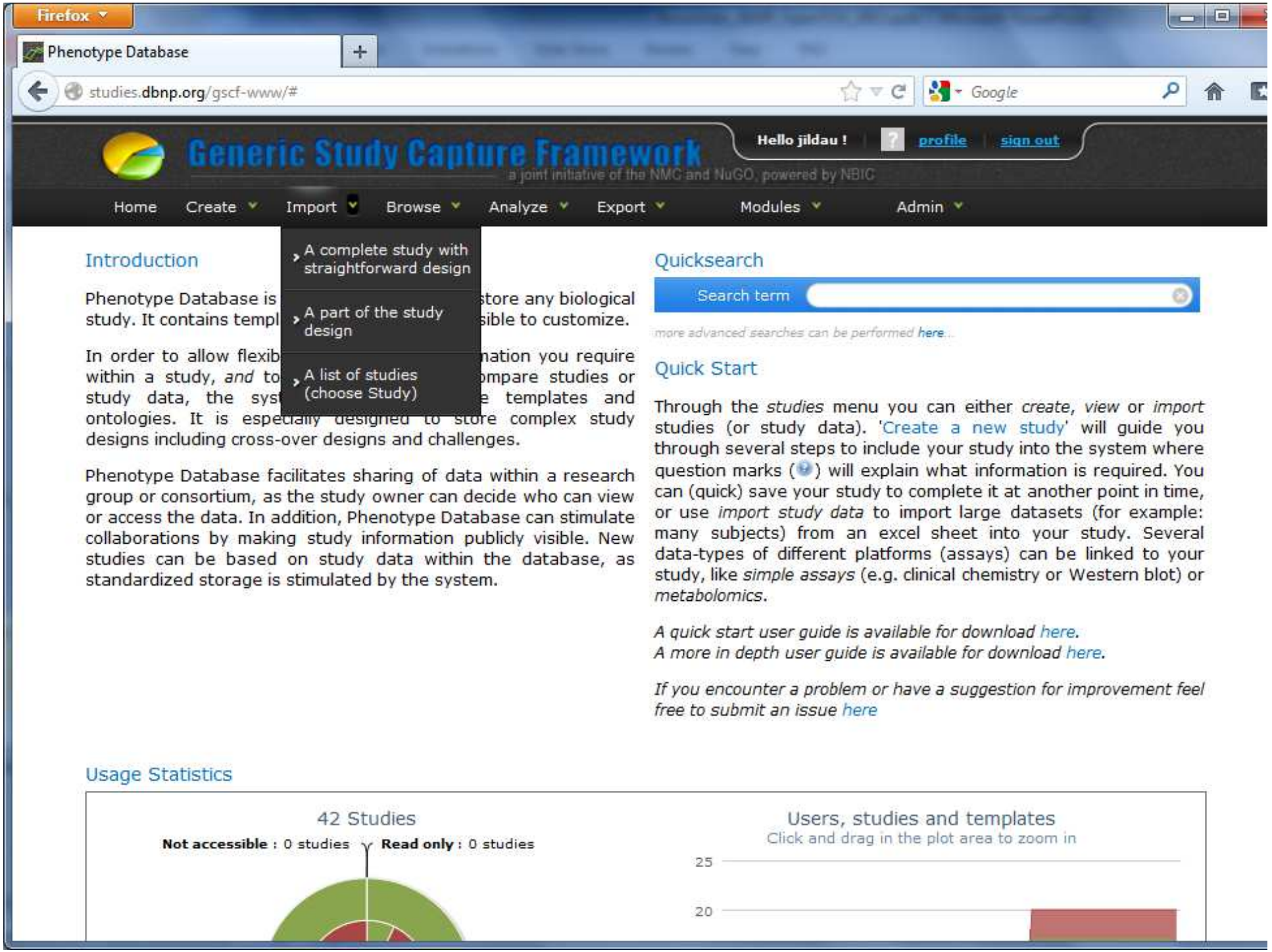
Collect, harmonize and distribute data

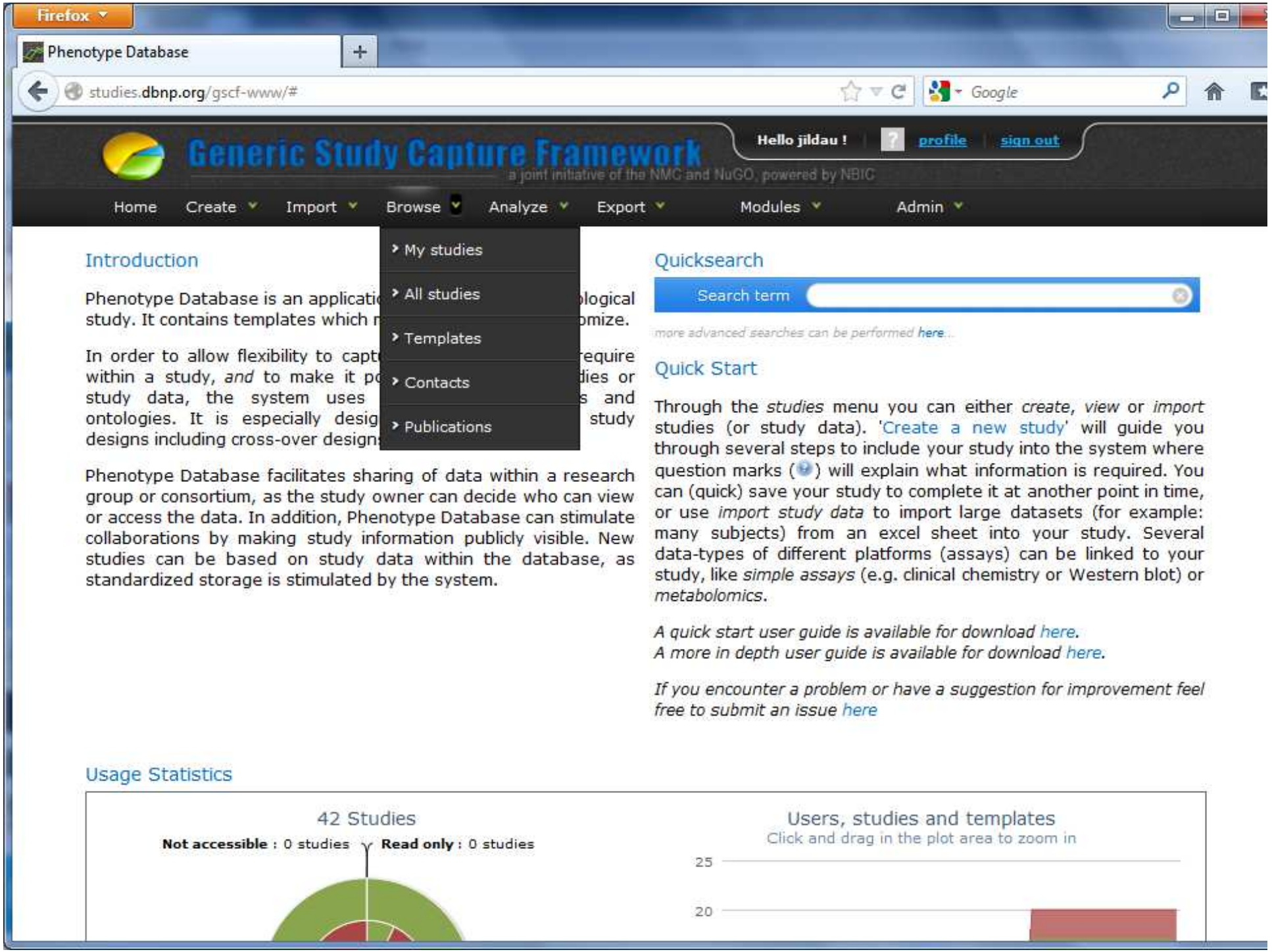


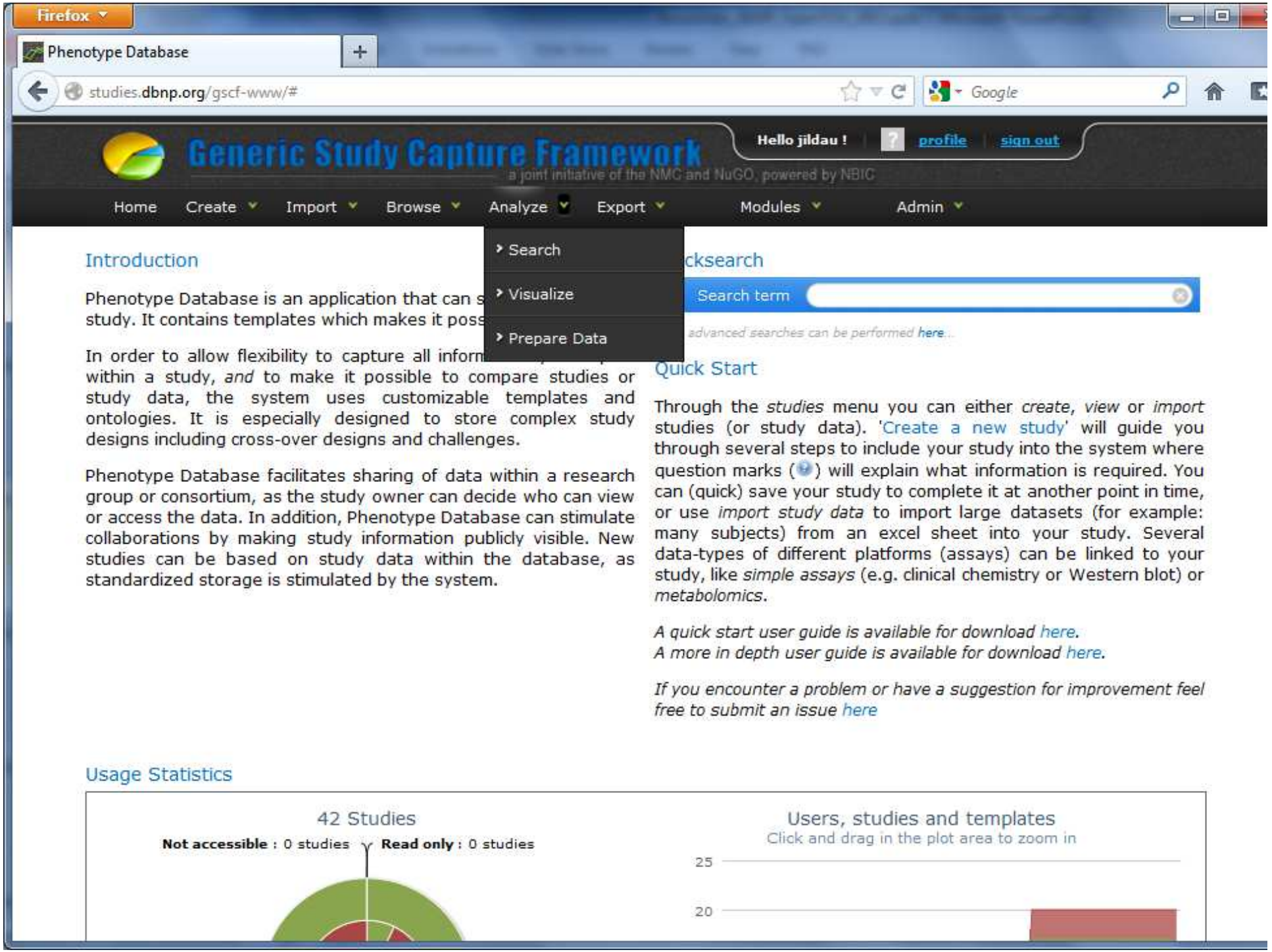

Firefox
Phenotype Database
studies.dbnp.org
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello Guest!
Log In |
Register
Home
Browse
Analyze
Introduction
Phenotype Database is an application that can store any biological study. It contains templates which makes it possible to customize.
In order to allow flexibility to capture all information you require within a study, and to make it possible to compare studies or study data, the system uses customizable templates and ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
Quicksearch
Search term
more advanced searches can be performed here..
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks (?) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Public : 3 studies
Users, studies and templates
Click and drag in the plot area to zoom in
25
20

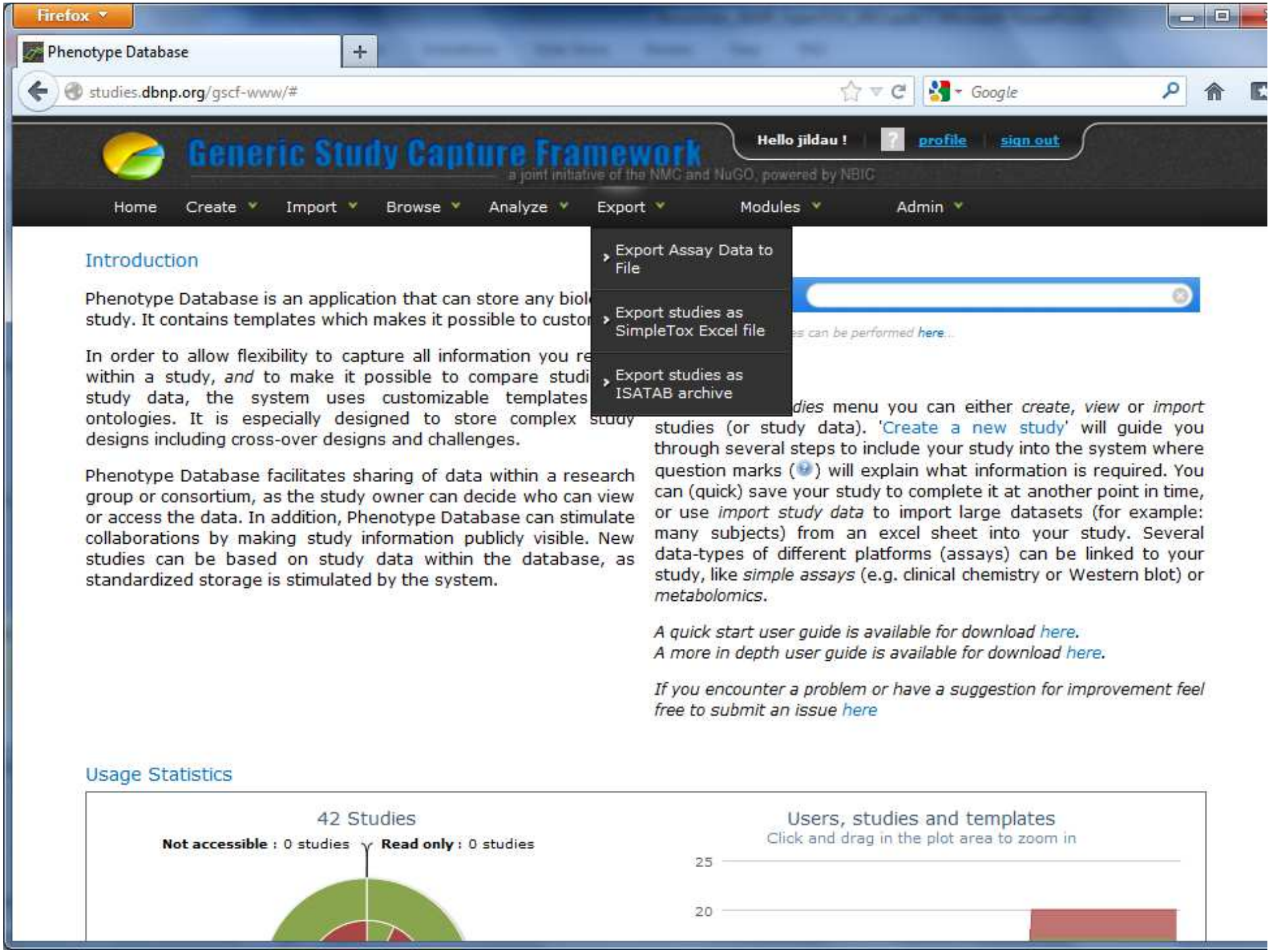

Firefox
Phenotype Database
studies.dbnp.org/#
Google
Welcome to the Phenotype Database
Version 0.9.1.4, build #
Please use the forms on the right to either log in if you already have an account, or sign up if you think this data support platform suits your needs.
Member Login
Username:
jildau
Password:
Remember me
Login
Lost your password?
Not a member yet? Sign Up!
Username:
Email:
A password will be e-mailed to you
Register
Hello Guest!
Close Panel
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Public : 3 studies
Users, studies and templates
Click and drag in the plot area to zoom in
25
20

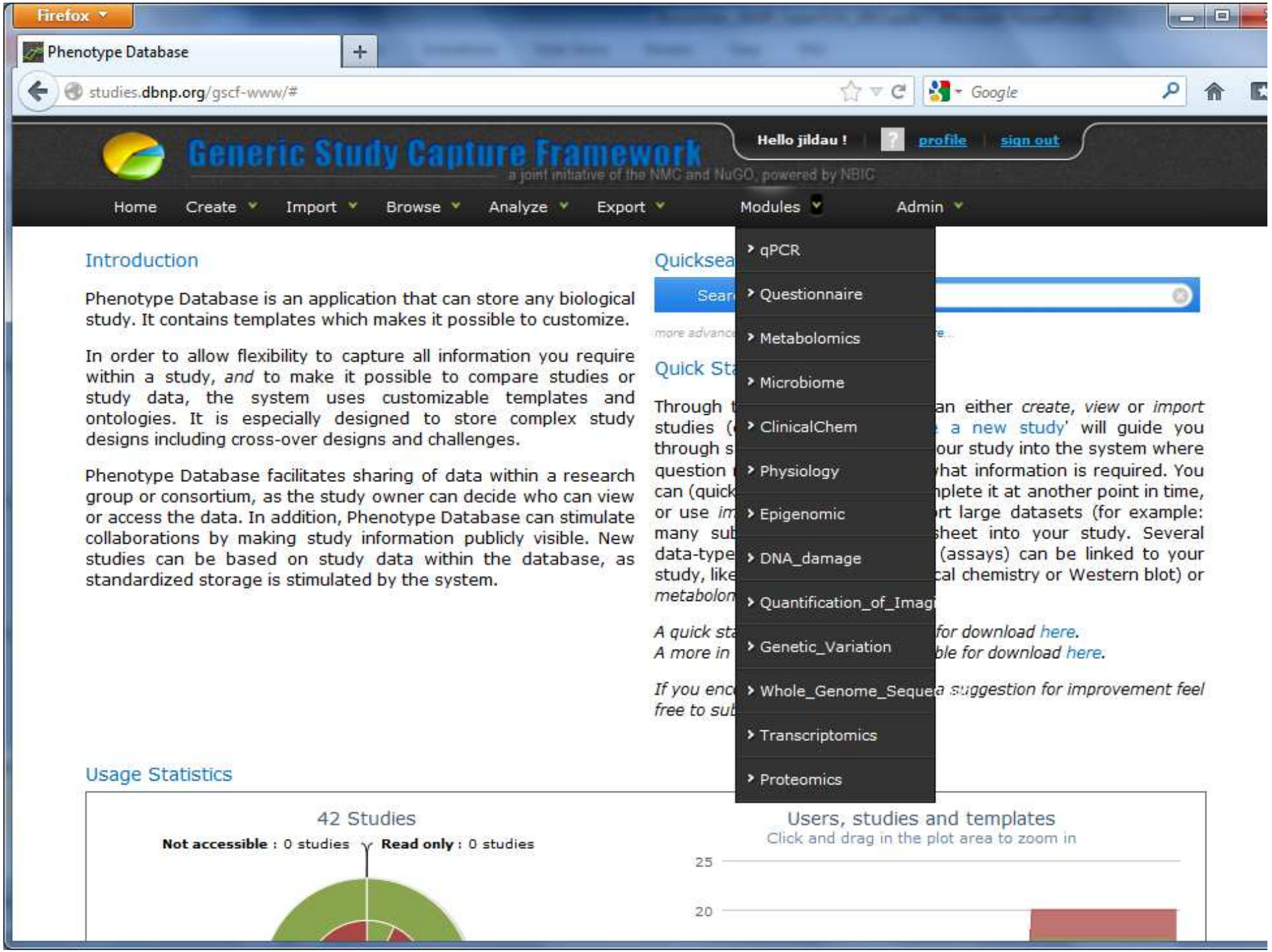

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Create a new study
Edit a study
Introductio
Phenotype
on that can store any biological study. It contains templates which makes it possible to customize.
In order to allow flexibility to capture all information you require within a study, and to make it possible to compare studies or study data, the system uses customizable templates and ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
Quicksearch
Search term
more advanced searches can be performed here..
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks ( ) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Not accessible : 0 studies
Read only : 0 studies
Users, studies and templates
Click and drag in the plot area to zoom in
25
20

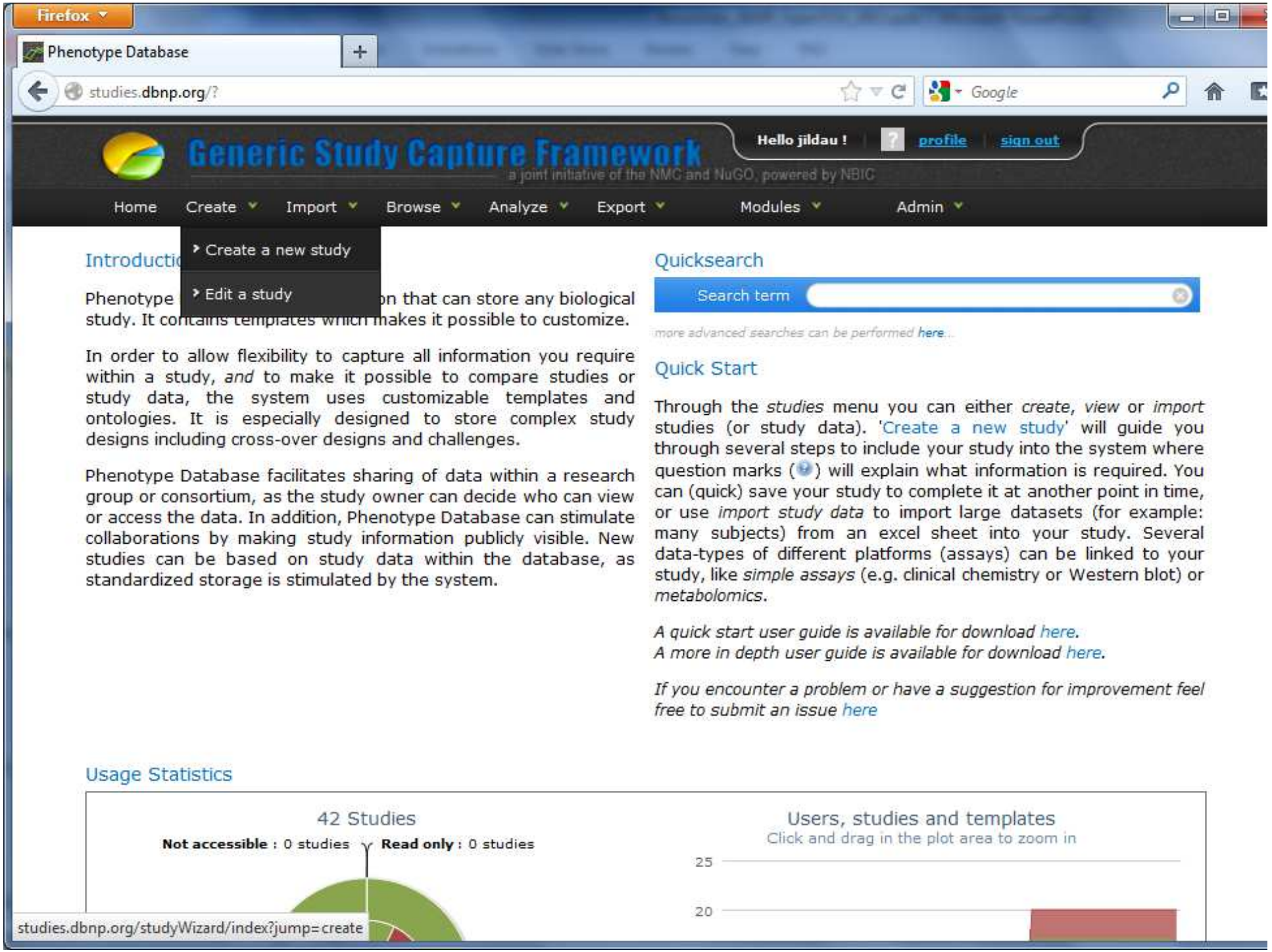

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
A complete study with straightforward design
A part of the study design
A list of studies (choose Study)
Introduction
Phenotype Database is
store any biological
study. It contains templ
sible to customize.
In order to allow flexib
nation you require
within a study, and to
mpare studies or
study data, the syst
e templates and
ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
Quicksearch
Search term
more advanced searches can be performed here..
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks ( ) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Not accessible : 0 studies
Read only : 0 studies
Users, studies and templates
Click and drag in the plot area to zoom in
25
20

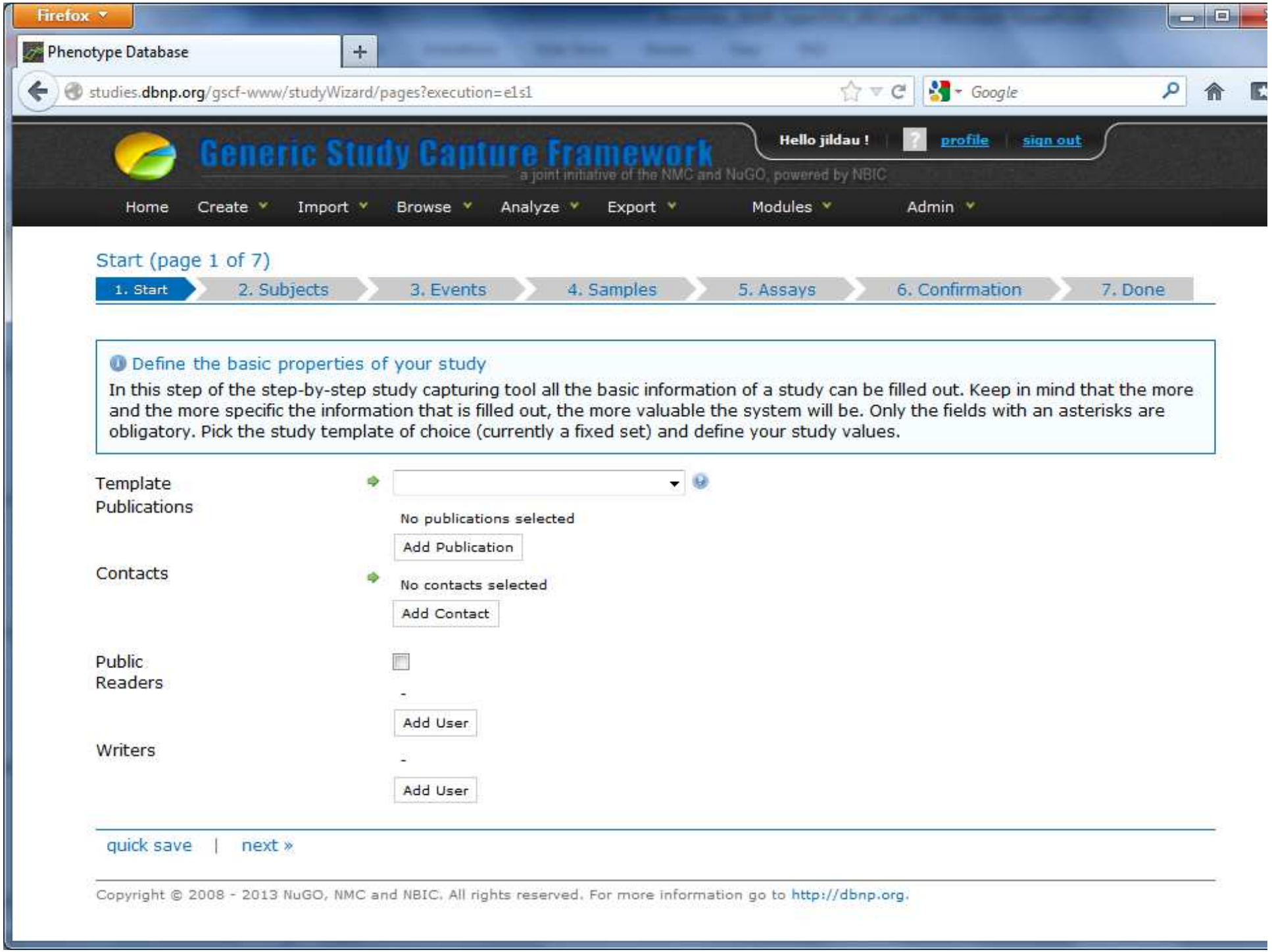

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
My studies
All studies
Templates
Contacts
Publications
Introduction
Phenotype Database is an applicati ological study. It contains templates which n omize.
In order to allow flexibility to capt require within a study, and to make it po dies or study data, the system uses s and ontologies. It is especially desig study designs including cross-over design
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
Quicksearch
Search term
more advanced searches can be performed here..
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks ( ) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Not accessible : 0 studies
Read only : 0 studies
Users, studies and templates
Click and drag in the plot area to zoom in
25
20

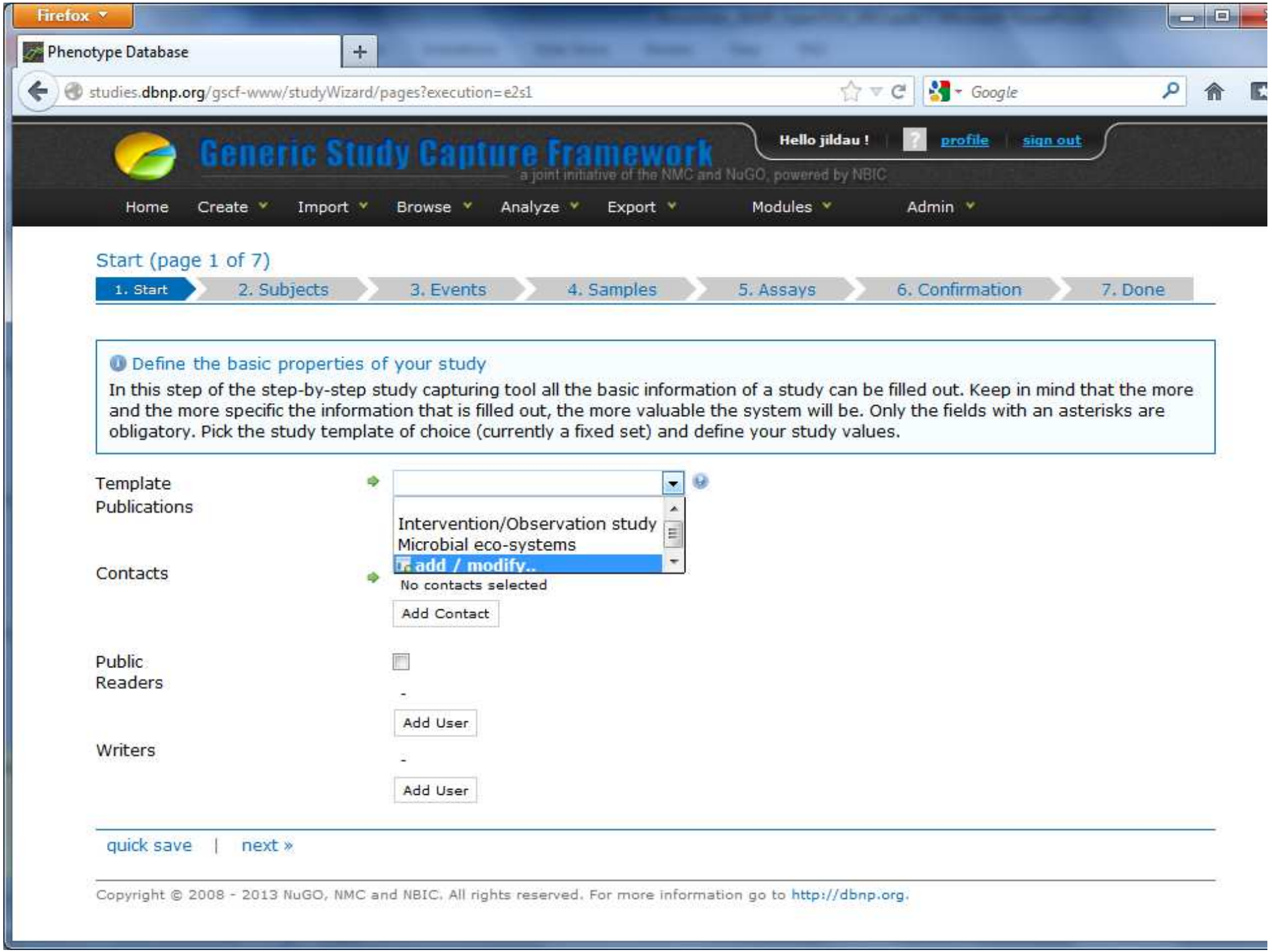

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Search
Visualize
Prepare Data
Introduction
Phenotype Database is an application that can s
study. It contains templates which makes it poss
In order to allow flexibility to capture all inform
within a study, and to make it possible to compare studies or study data, the system uses customizable templates and ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
cksearch
Search term
advanced searches can be performed here..
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks ( ) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Not accessible : 0 studies
Read only : 0 studies
Users, studies and templates
Click and drag in the plot area to zoom in
25
20

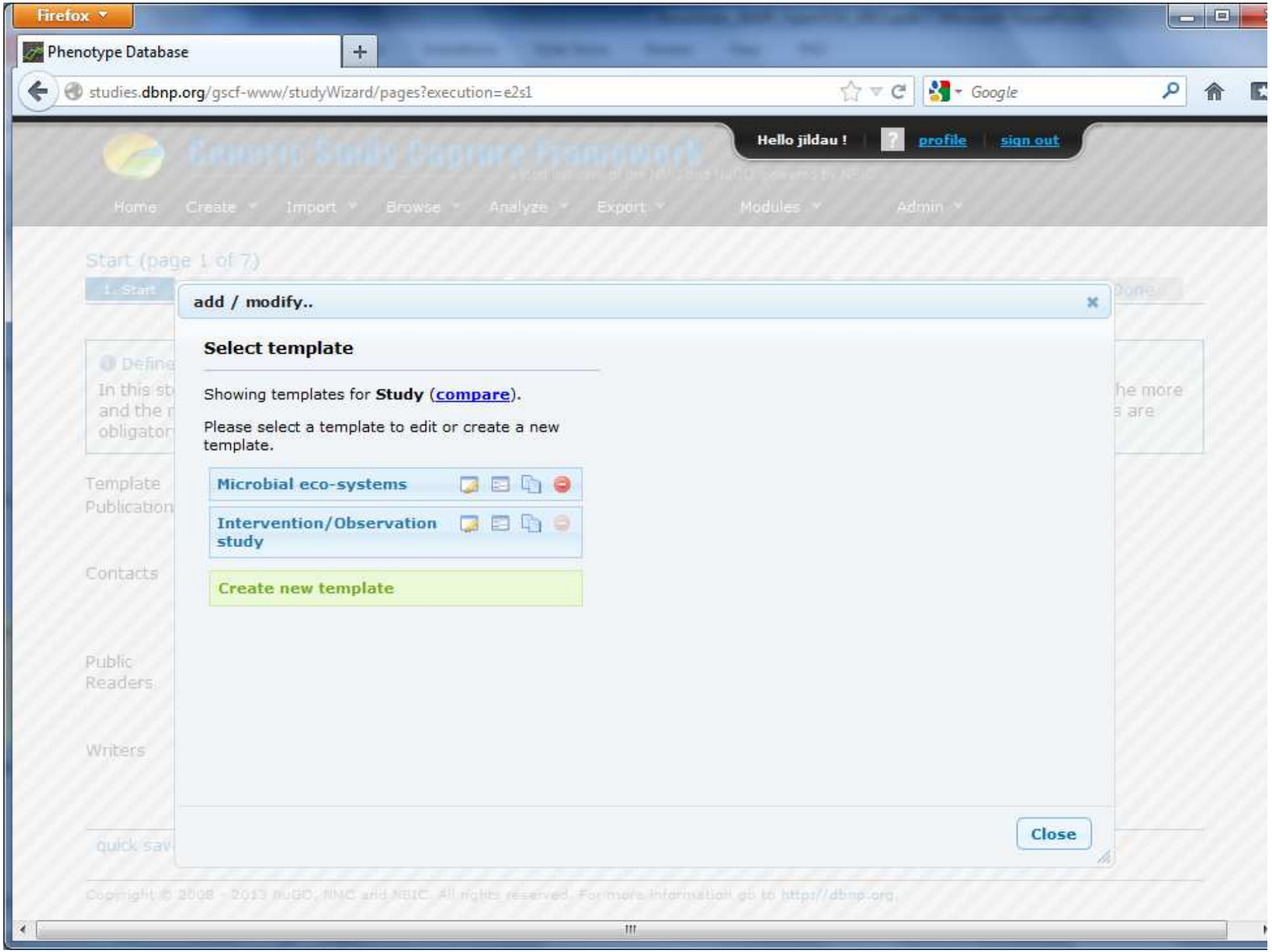

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Export Assay Data to File
Export studies as SimpleTox Excel file
Export studies as ISATAB archive
Introduction
Phenotype Database is an application that can store any biol
study. It contains templates which makes it possible to custo
In order to allow flexibility to capture all information you re
within a study, and to make it possible to compare studi
study data, the system uses customizable templates
ontologies. It is especially designed to store complex study
designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
s can be performed here.
dies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks ( ) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Not accessible : 0 studies
Read only : 0 studies
Users, studies and templates
Click and drag in the plot area to zoom in
25
20

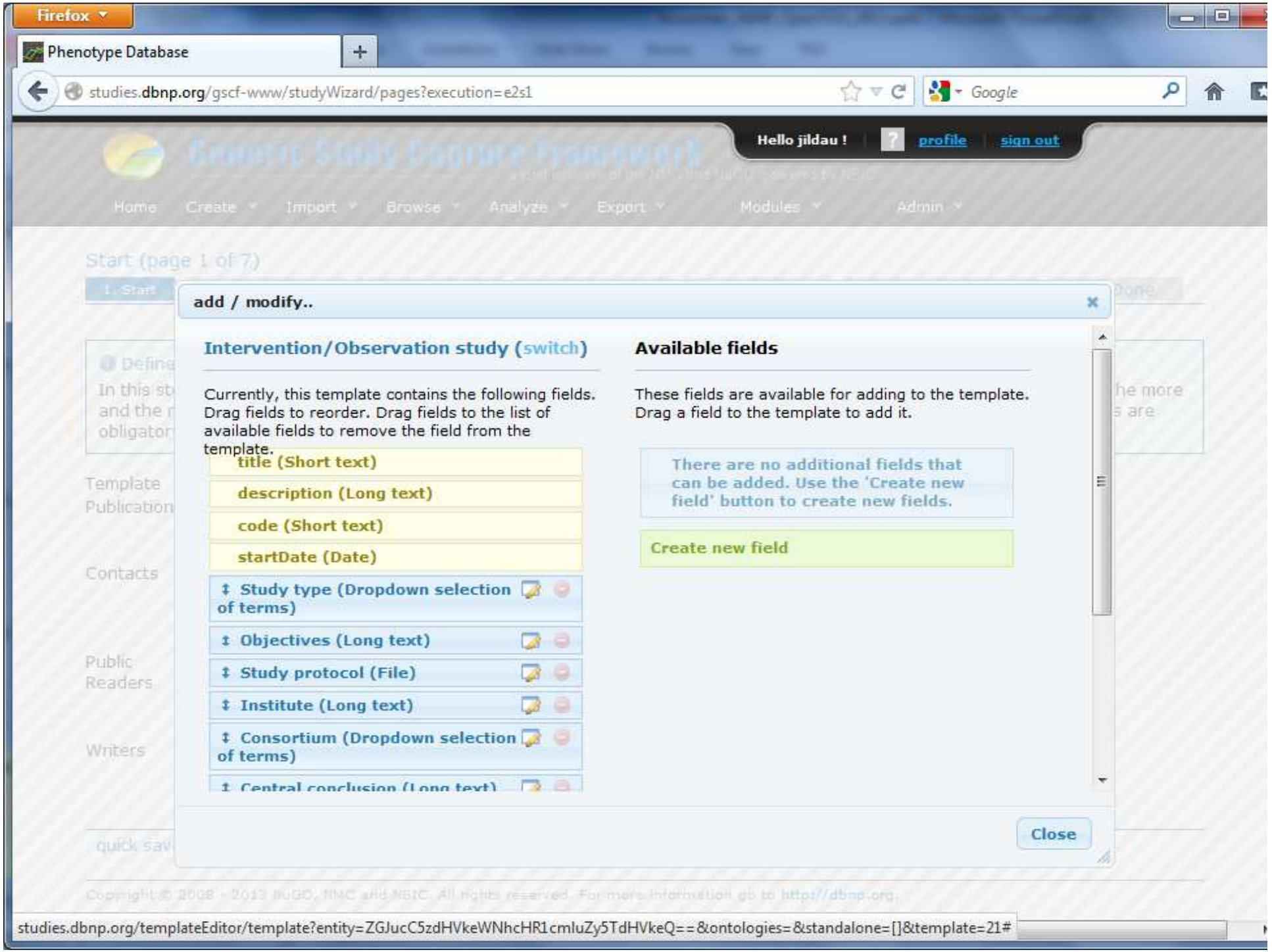

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
qPCR
Questionnaire
Metabolomics
Microbiome
ClinicalChem
Physiology
Epigenomic
DNA_damage
Quantification_of_Imagi
Genetic_Variation
Whole_Genome_Sequen
Transcriptomics
Proteomics
Introduction
Phenotype Database is an application that can store any biological study. It contains templates which makes it possible to customize.
In order to allow flexibility to capture all information you require within a study, and to make it possible to compare studies or study data, the system uses customizable templates and ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
Usage Statistics
42 Studies
Not accessible : 0 studies
Read only : 0 studies
Users, studies and templates
Click and drag in the plot area to zoom in
25
20

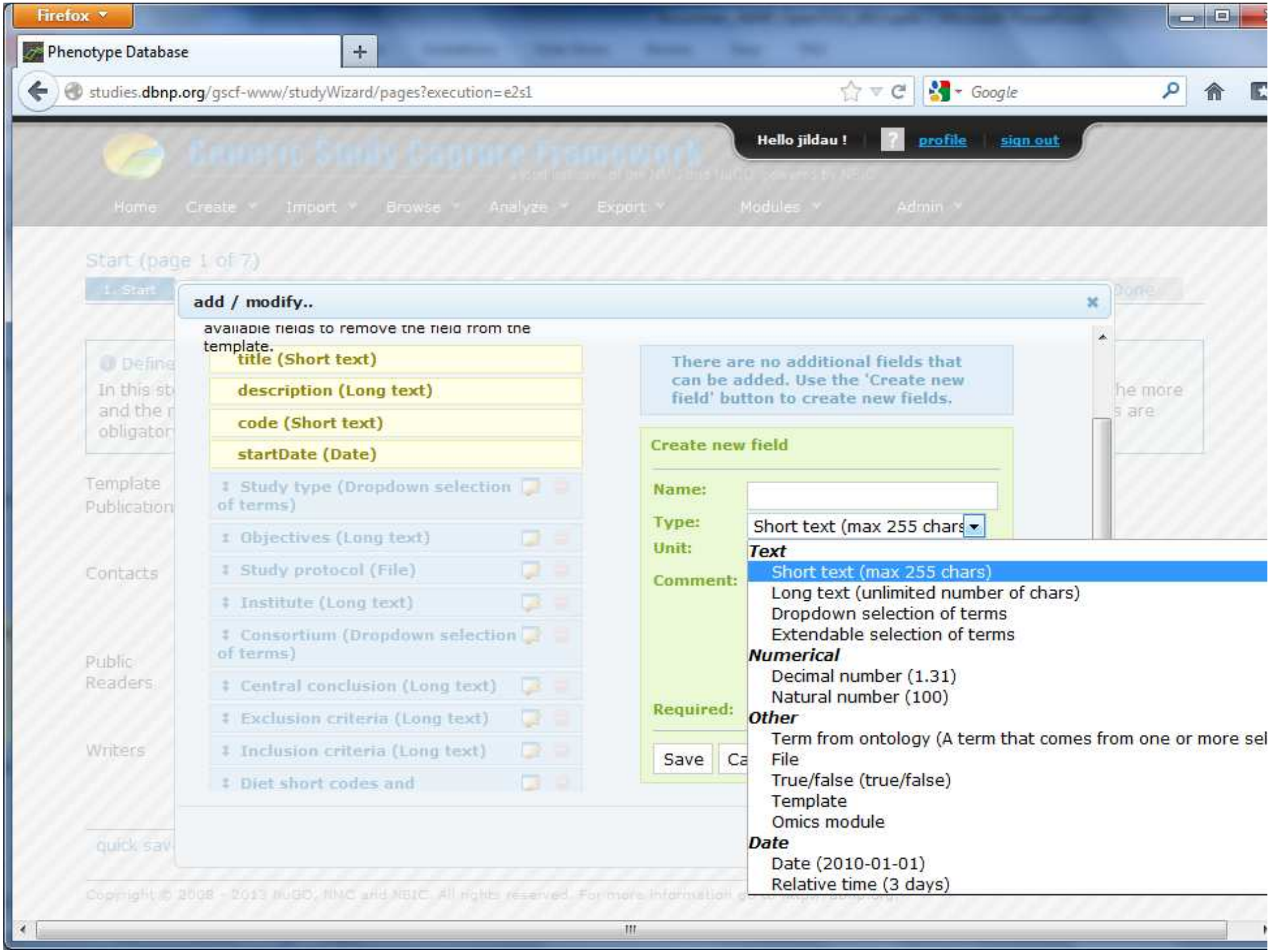

Firefox
Phenotype Database
studies.dbnp.org/?
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Create a new study
Edit a study
Introductio
Phenotype
on that can store any biological study. It contains templates which makes it possible to customize.
In order to allow flexibility to capture all information you require within a study, and to make it possible to compare studies or study data, the system uses customizable templates and ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
Quicksearch
Search term
more advanced searches can be performed here..
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks ( ) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Not accessible : 0 studies
Read only : 0 studies
Users, studies and templates
Click and drag in the plot area to zoom in
25
20
studies.dbnp.org/studyWizard/index?jump=create

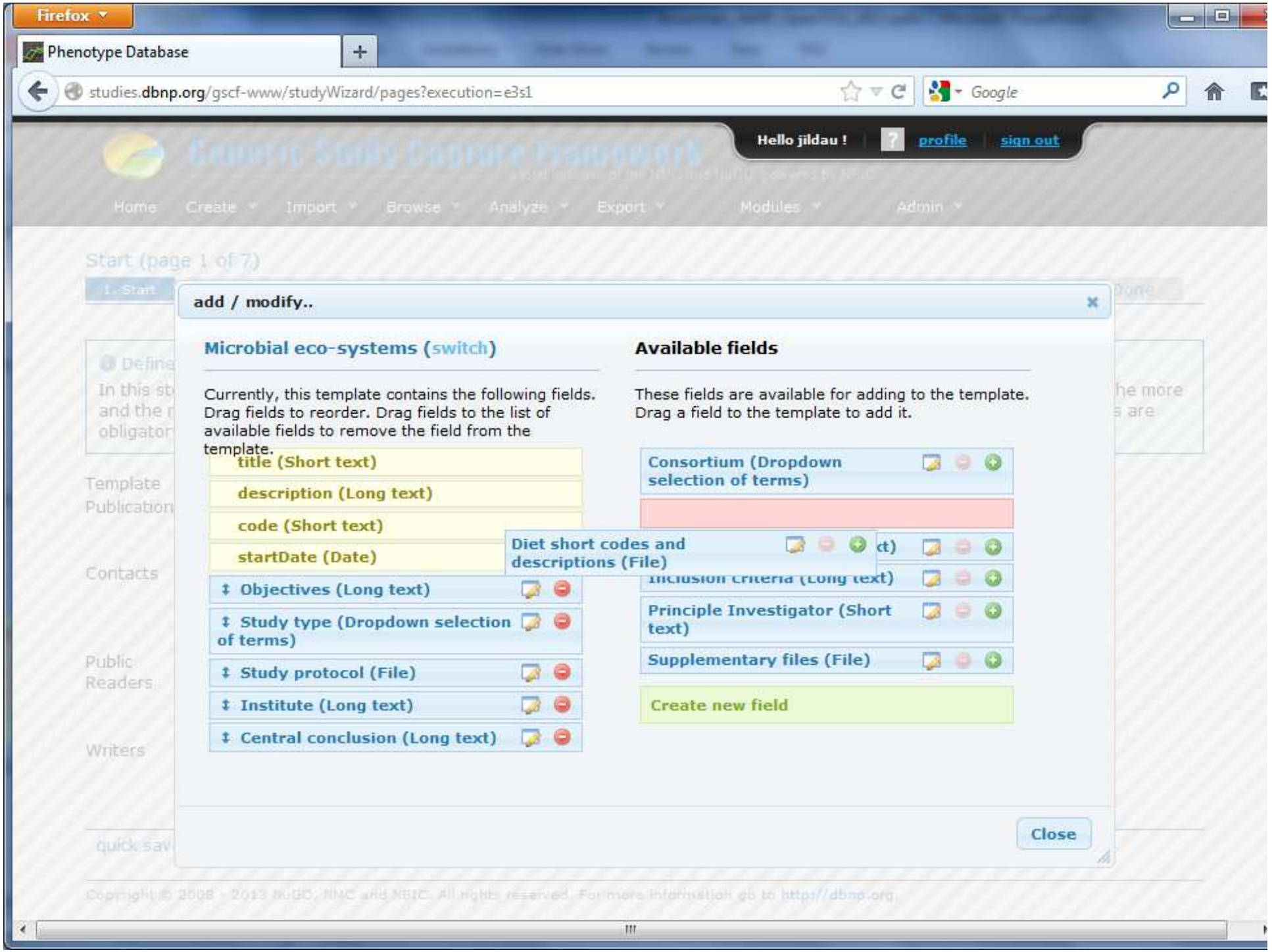

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e1s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Start (page 1 of 7)
1. Start
2. Subjects
3. Events
4. Samples
5. Assays
6. Confirmation
7. Done
Define the basic properties of your study
In this step of the step-by-step study capturing tool all the basic information of a study can be filled out. Keep in mind that the more and the more specific the information that is filled out, the more valuable the system will be. Only the fields with an asterisks are obligatory. Pick the study template of choice (currently a fixed set) and define your study values.
Template
Publications
No publications selected
Add Publication
Contacts
No contacts selected
Add Contact
Public
Readers
-
Add User
Writers
-
Add User
quick save
next »
Copyright © 2008 - 2013 NuGO, NMC and NBIC. All rights reserved. For more information go to http://dbnp.org.

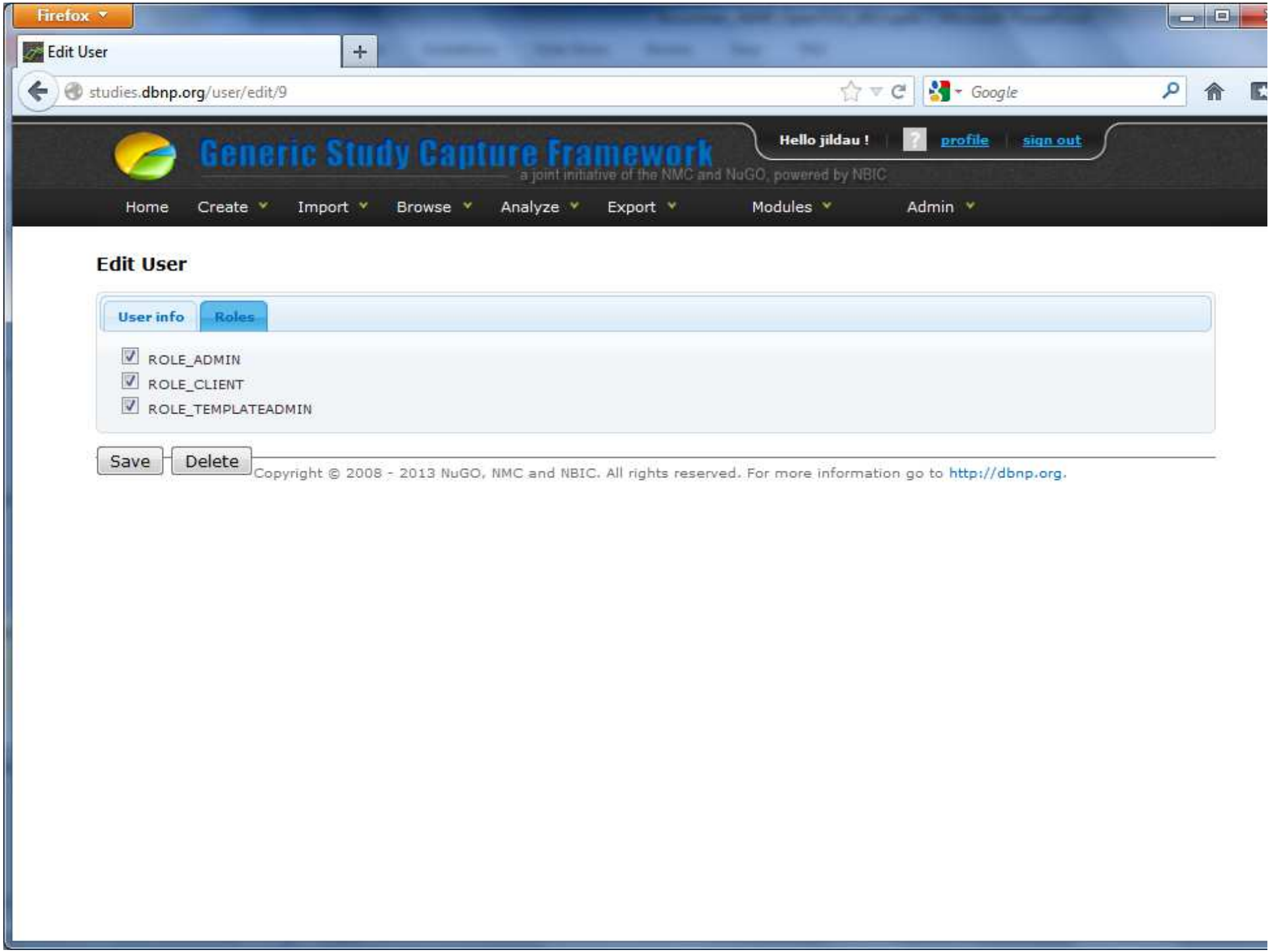

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e2s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Start (page 1 of 7)
1. Start
2. Subjects
3. Events
4. Samples
5. Assays
6. Confirmation
7. Done
Define the basic properties of your study
In this step of the step-by-step study capturing tool all the basic information of a study can be filled out. Keep in mind that the more and the more specific the information that is filled out, the more valuable the system will be. Only the fields with an asterisks are obligatory. Pick the study template of choice (currently a fixed set) and define your study values.
Template
Publications
Intervention/Observation study
Microbial eco-systems
add / modify..
Contacts
No contacts selected
Add Contact
Public
Readers
-
Add User
Writers
-
Add User
quick save
|
next »
Copyright © 2008 - 2013 NuGO, NMC and NBIC. All rights reserved. For more information go to http://dbnp.org.

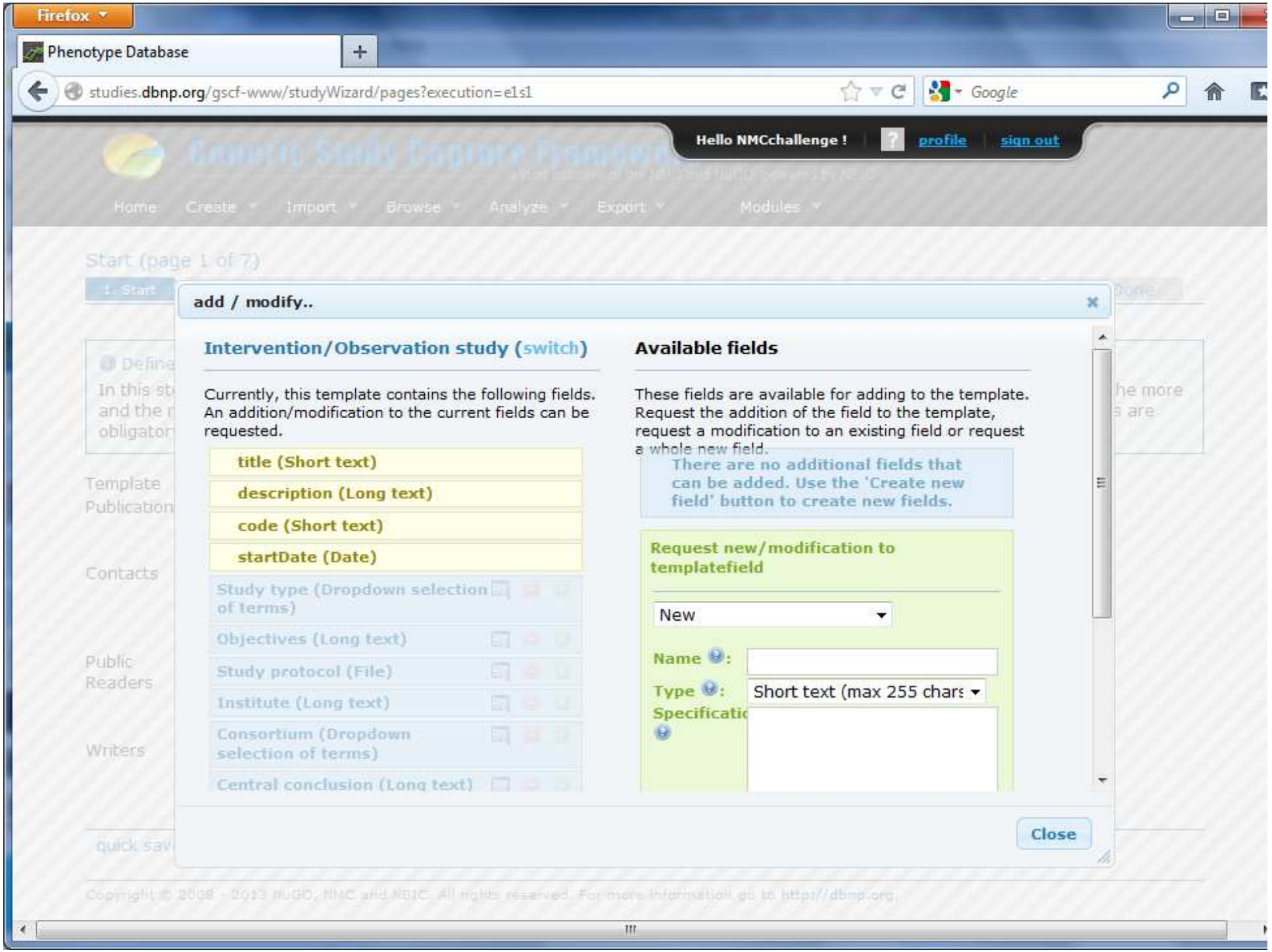

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e2s1
Google
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Start (page 1 of 7)
add / modify..
Select template
Showing templates for Study (compare).
Please select a template to edit or create a new template.
Microbial eco-systems
Intervention/Observation study
Create new template
Close
Template
Publication
Contacts
Public Readers
Writers

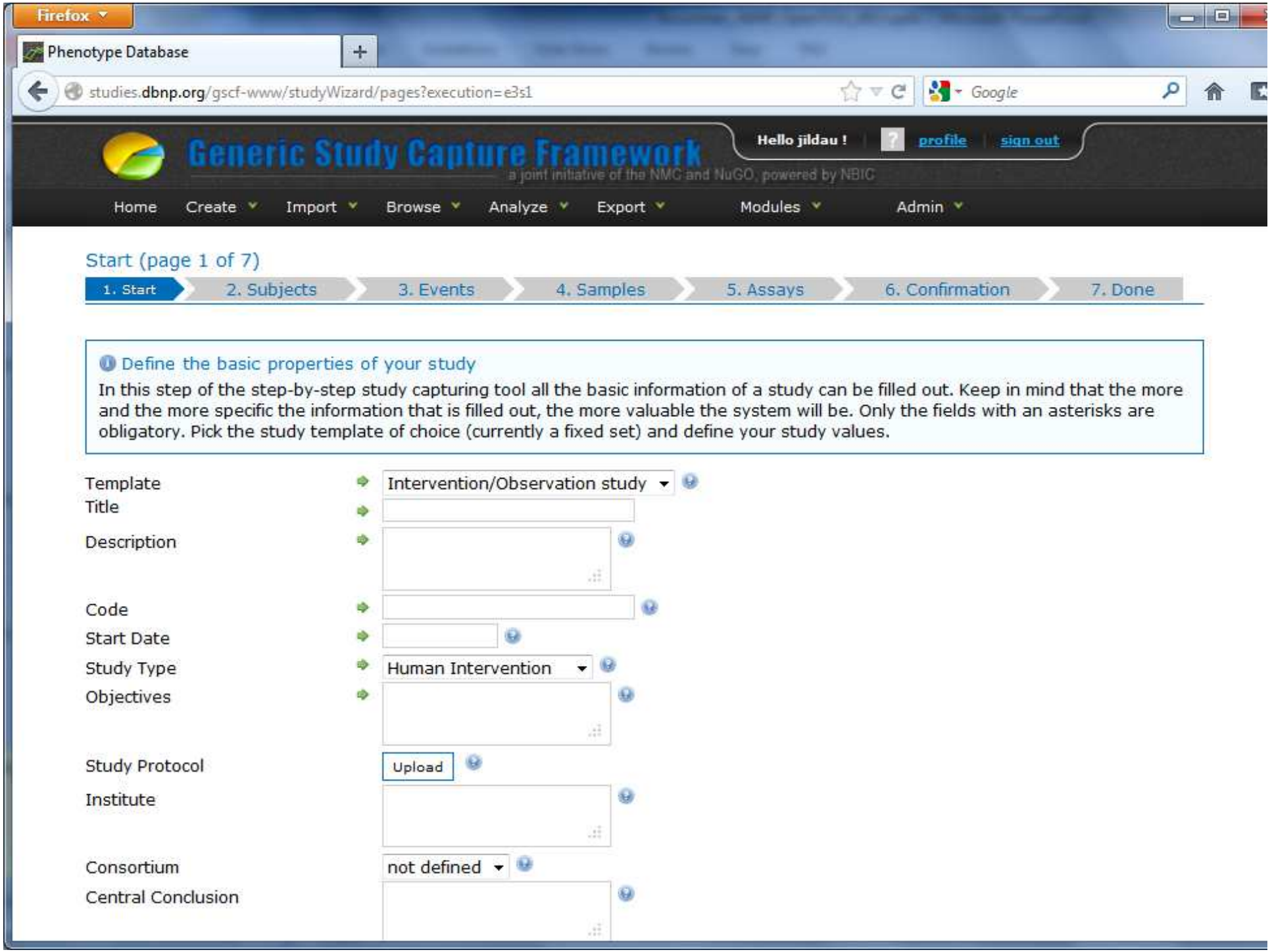

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e2s1
Google
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
add / modify..
Intervention/Observation study (switch)
Currently, this template contains the following fields. Drag fields to reorder. Drag fields to the list of available fields to remove the field from the template.
title (Short text)
description (Long text)
code (Short text)
startDate (Date)
Study type (Dropdown selection of terms)
Objectives (Long text)
Study protocol (File)
Institute (Long text)
Consortium (Dropdown selection of terms)
Available fields
These fields are available for adding to the template. Drag a field to the template to add it.
There are no additional fields that can be added. Use the 'Create new field' button to create new fields.
Create new field
Close
studies.dbnp.org/templateEditor/template?entity=ZGJucC5zdHVkeWNhcHR1cmluZy5TdHVkeQ==&ontologies=&standalone=[]&template=21#

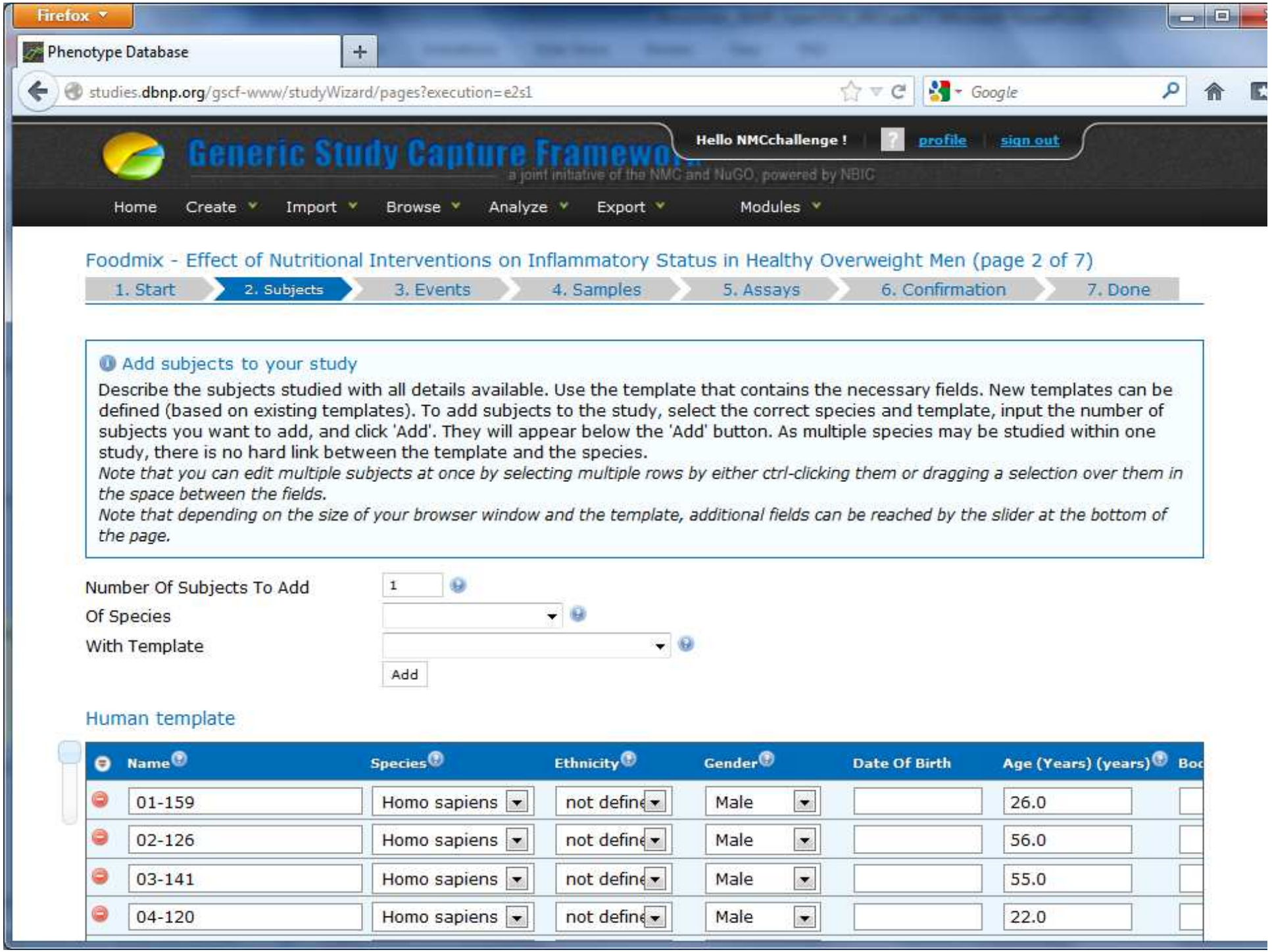

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e2s1
Google
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Start (page 1 of 7)
add / modify..
available fields to remove the field from the template.
title (Short text)
description (Long text)
code (Short text)
startDate (Date)
Study type (Dropdown selection of terms)
Objectives (Long text)
Study protocol (File)
Institute (Long text)
Consortium (Dropdown selection of terms)
Central conclusion (Long text)
Exclusion criteria (Long text)
Inclusion criteria (Long text)
Diet short codes and
There are no additional fields that can be added. Use the 'Create new field' button to create new fields.
Create new field
Name:
Type:
Short text (max 255 chars
Unit:
Comment:
Required:
Save
Text
Short text (max 255 chars)
Long text (unlimited number of chars)
Dropdown selection of terms
Extendable selection of terms
Numerical
Decimal number (1.31)
Natural number (100)
Other
Term from ontology (A term that comes from one or more sel
File
True/false (true/false)
Template
Omics module
Date
Date (2010-01-01)
Relative time (3 days)


Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e3s1
Google
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
add / modify..
Microbial eco-systems (switch)
Currently, this template contains the following fields. Drag fields to reorder. Drag fields to the list of available fields to remove the field from the template.
title (Short text)
description (Long text)
code (Short text)
startDate (Date)
Objectives (Long text)
Study type (Dropdown selection of terms)
Study protocol (File)
Institute (Long text)
Central conclusion (Long text)
Available fields
These fields are available for adding to the template. Drag a field to the template to add it.
Consortium (Dropdown selection of terms)
Diet short codes and descriptions (File)
Principle Investigator (Short text)
Supplementary files (File)
Create new field
Close

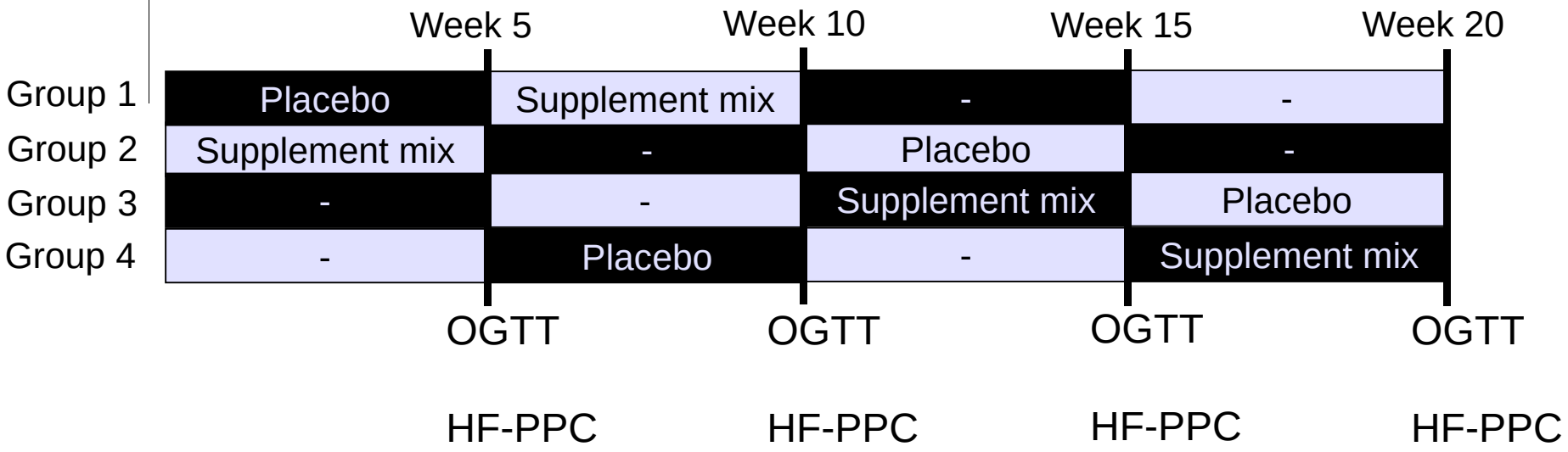

Firefox
Edit User
studies.dbnp.org/user/edit/9
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Edit User
User info
Roles
ROLE_ADMIN
ROLE_CLIENT
ROLE_TEMPLATEADMIN
Save
Delete
Copyright © 2008 - 2013 NuGO, NMC and NBIC. All rights reserved. For more information go to http://dbnp.org.

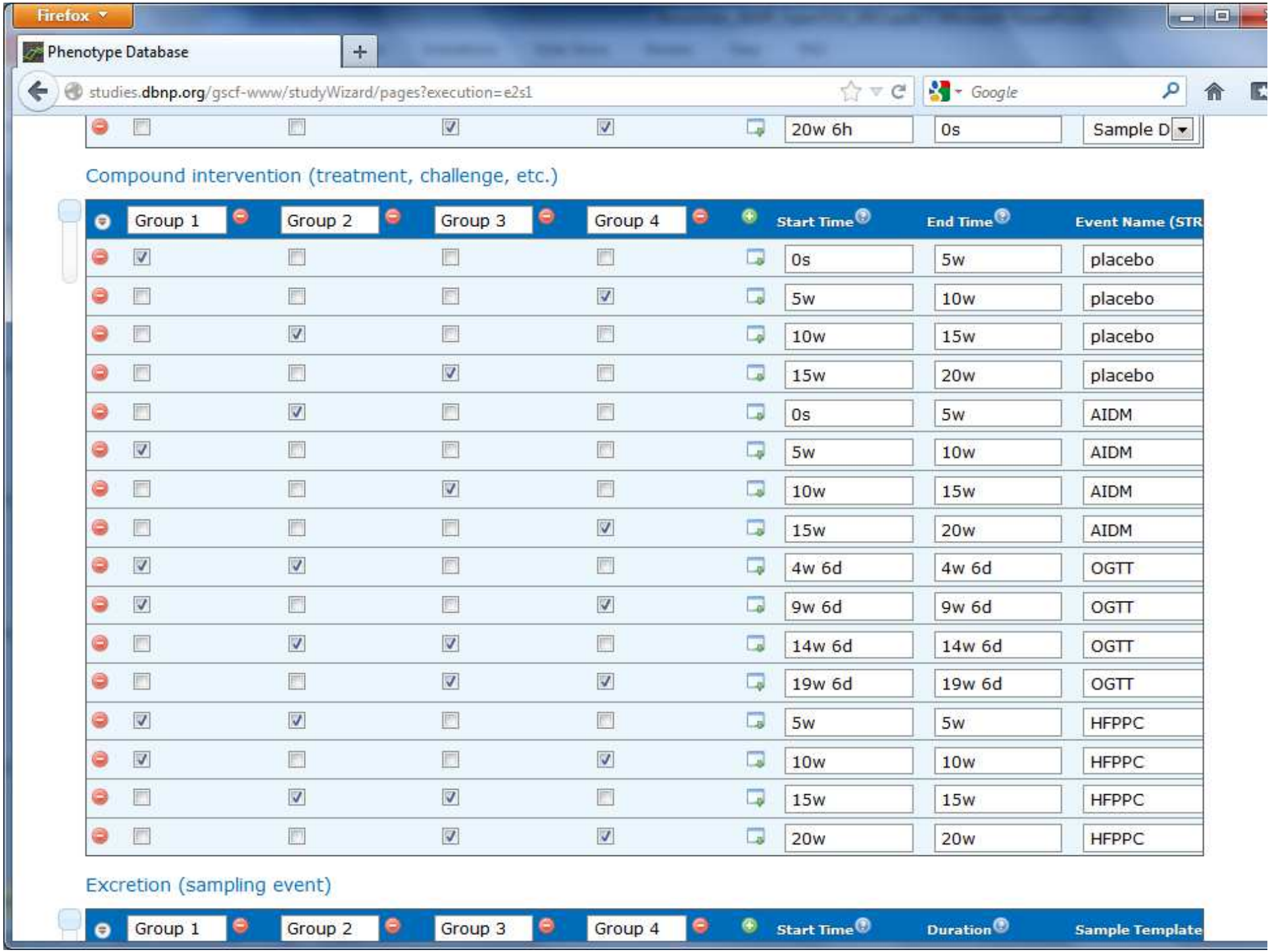

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e1s1
Google
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Start (page 1 of 7)
add / modify..
Intervention/Observation study (switch)
Currently, this template contains the following fields. An addition/modification to the current fields can be requested.
title (Short text)
description (Long text)
code (Short text)
startDate (Date)
Study type (Dropdown selection of terms)
Objectives (Long text)
Study protocol (File)
Institute (Long text)
Consortium (Dropdown selection of terms)
Central conclusion (Long text)
Available fields
These fields are available for adding to the template. Request the addition of the field to the template, request a modification to an existing field or request a whole new field.
There are no additional fields that can be added. Use the 'Create new field' button to create new fields.
Request new/modification to templatefield
New
Name:
Type:
Short text (max 255 chars
Specificatic
Close
Template
Publication
Contacts
Public
Readers
Writers
quick sav


Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e3s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Start (page 1 of 7)
1. Start
2. Subjects
3. Events
4. Samples
5. Assays
6. Confirmation
7. Done
Define the basic properties of your study
In this step of the step-by-step study capturing tool all the basic information of a study can be filled out. Keep in mind that the more and the more specific the information that is filled out, the more valuable the system will be. Only the fields with an asterisks are obligatory. Pick the study template of choice (currently a fixed set) and define your study values.
Template
Intervention/Observation study
Title
Description
Code
Start Date
Study Type
Human Intervention
Objectives
Study Protocol
Upload
Institute
Consortium
not defined
Central Conclusion

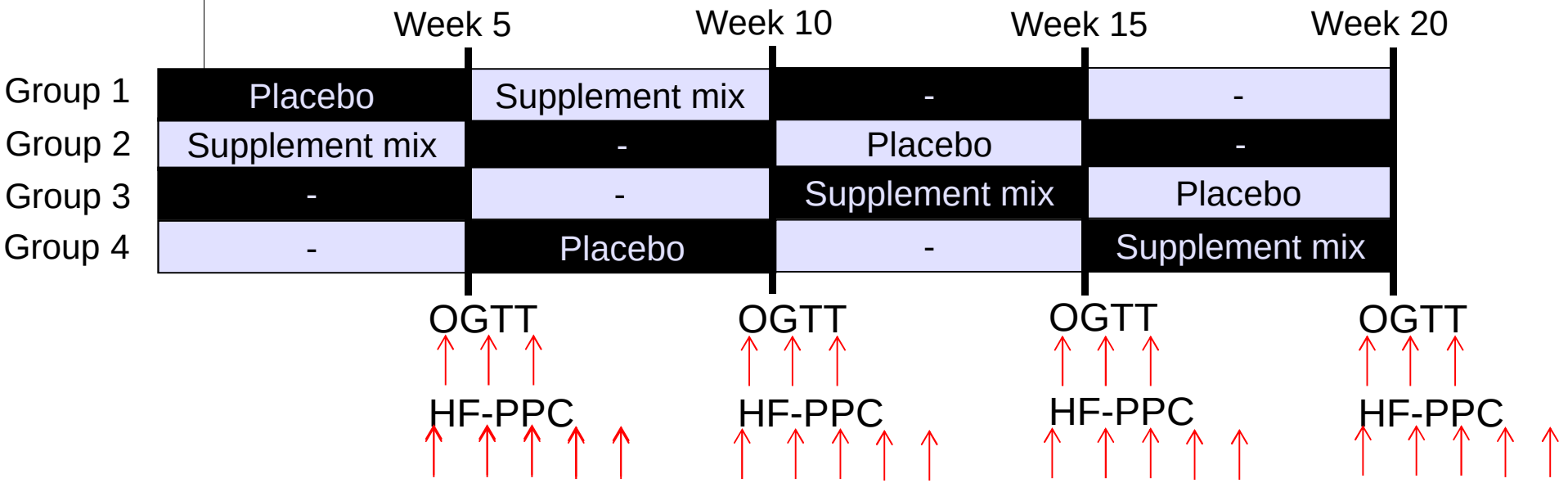

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e2s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Foodmix - Effect of Nutritional Interventions on Inflammatory Status in Healthy Overweight Men (page 2 of 7)
1. Start
2. Subjects
3. Events
4. Samples
5. Assays
6. Confirmation
7. Done
Add subjects to your study
Describe the subjects studied with all details available. Use the template that contains the necessary fields. New templates can be defined (based on existing templates). To add subjects to the study, select the correct species and template, input the number of subjects you want to add, and click 'Add'. They will appear below the 'Add' button. As multiple species may be studied within one study, there is no hard link between the template and the species.
Note that you can edit multiple subjects at once by selecting multiple rows by either ctrl-clicking them or dragging a selection over them in the space between the fields.
Note that depending on the size of your browser window and the template, additional fields can be reached by the slider at the bottom of the page.
Number Of Subjects To Add
1
Of Species
With Template
Add
Human template
Name
Species
Ethnicity
Gender
Date Of Birth
Age (Years) (years)
01-159
Homo sapiens
not define
Male
26.0
02-126
Homo sapiens
not define
Male
56.0
03-141
Homo sapiens
not define
Male
55.0
04-120
Homo sapiens
not define
Male
22.0

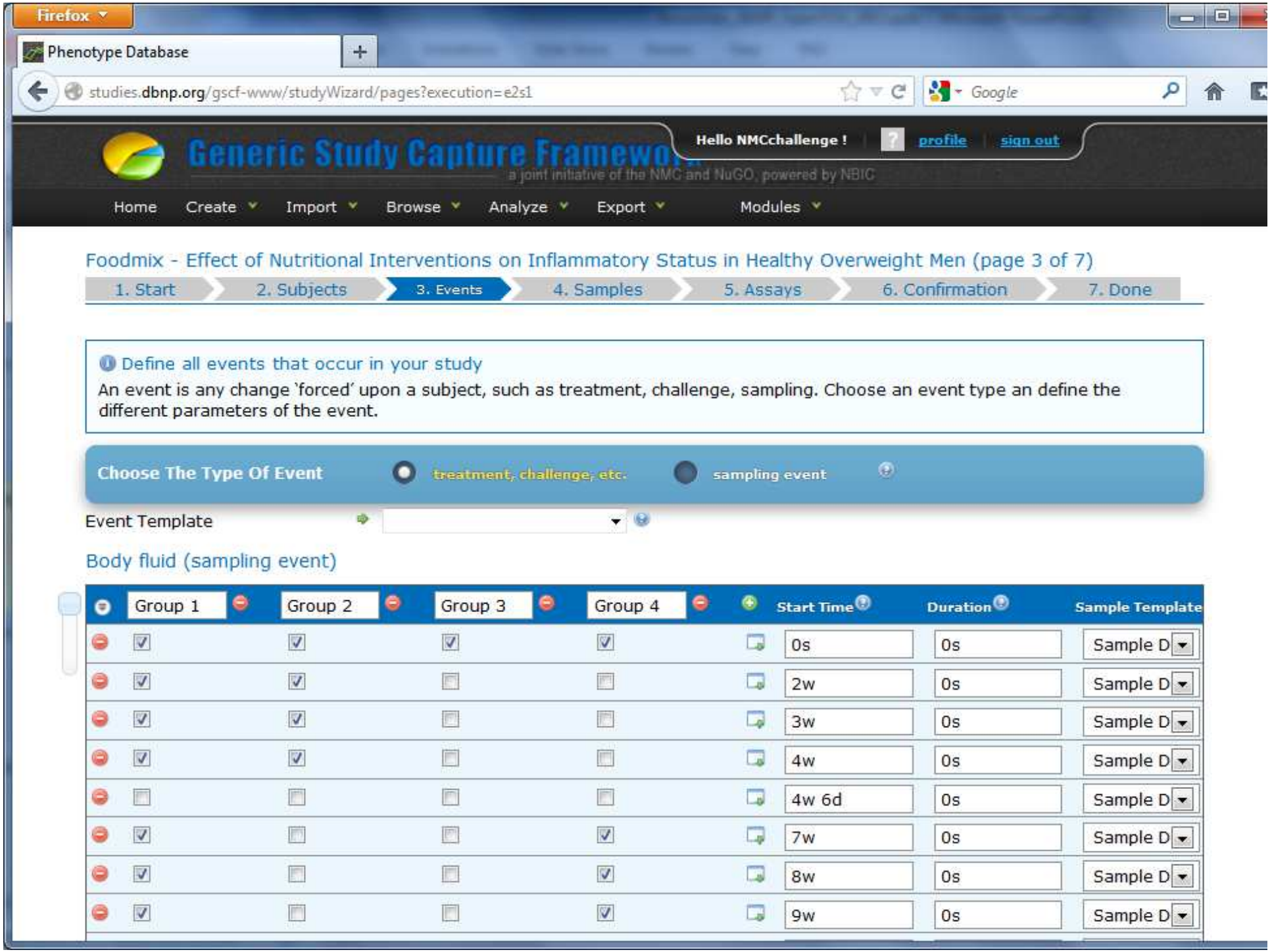
Example study



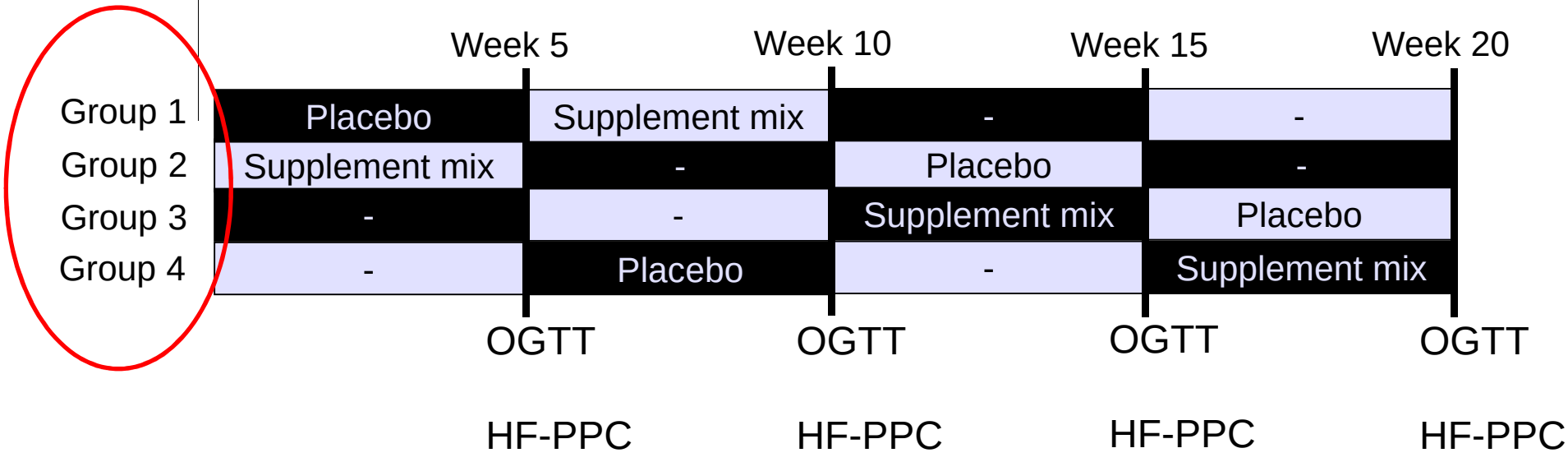

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e2s1
Google
20w 6h
0s
Sample D
Compound intervention (treatment, challenge, etc.)
Group 1
Group 2
Group 3
Group 4
Start Time
End Time
Event Name (STR
0s 5w placebo
5w 10w placebo
10w 15w placebo
15w 20w placebo
0s 5w AIDM
5w 10w AIDM
10w 15w AIDM
15w 20w AIDM
4w 6d 4w 6d OGTT
9w 6d 9w 6d OGTT
14w 6d 14w 6d OGTT
19w 6d 19w 6d OGTT
5w 5w HFPPC
10w 10w HFPPC
15w 15w HFPPC
20w 20w HFPPC
Excretion (sampling event)
Group 1
Group 2
Group 3
Group 4
Start Time
Duration
Sample Template

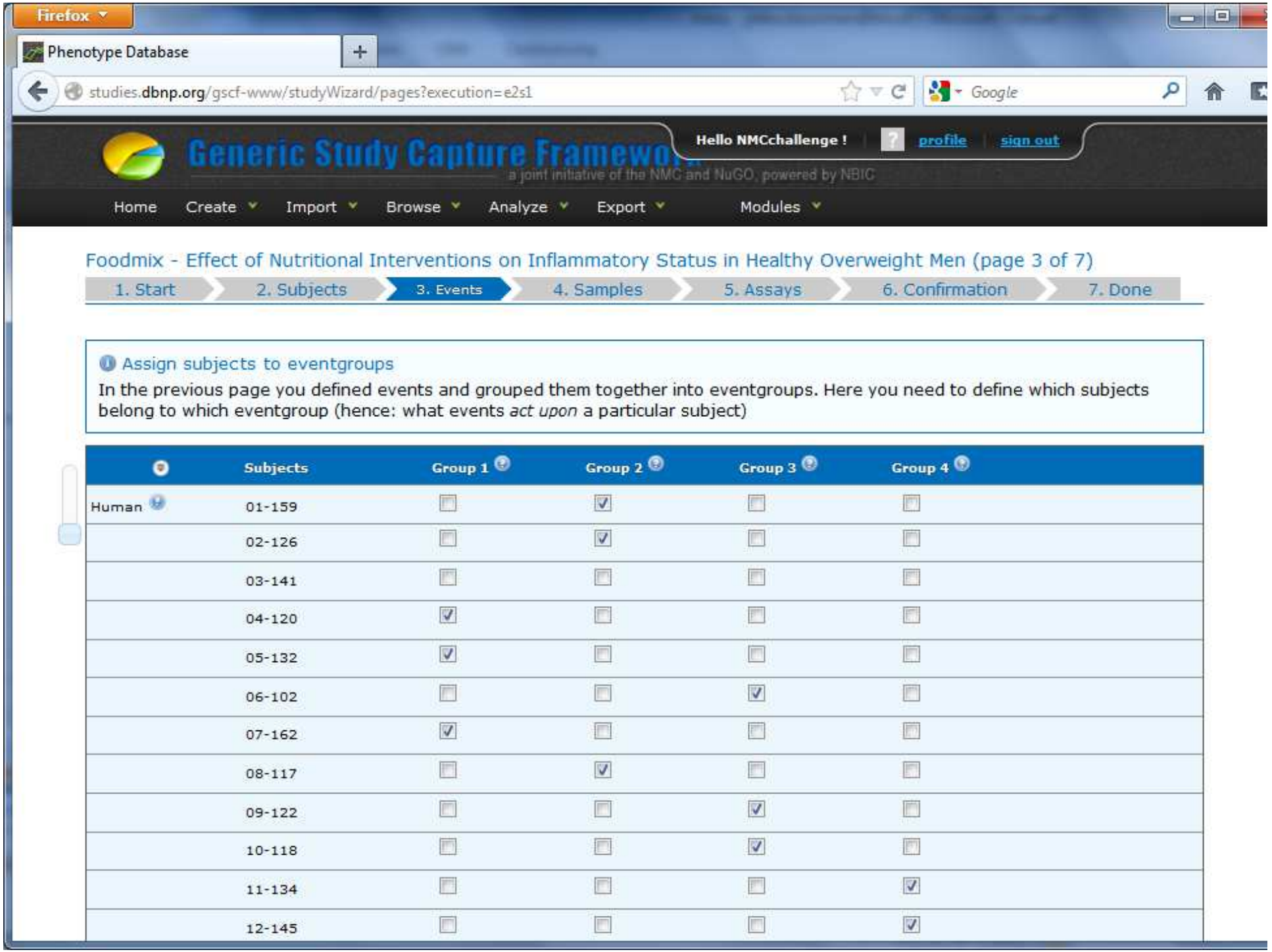
Example study



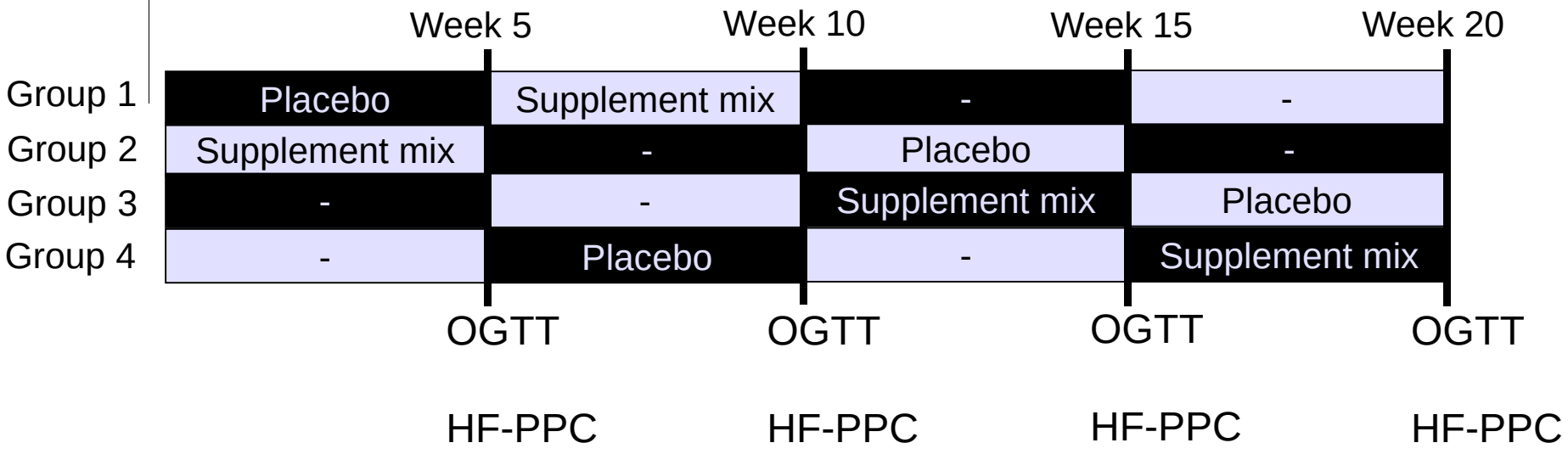

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e2s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Foodmix - Effect of Nutritional Interventions on Inflammatory Status in Healthy Overweight Men (page 3 of 7)
1. Start
2. Subjects
3. Events
4. Samples
5. Assays
6. Confirmation
7. Done
Define all events that occur in your study
An event is any change 'forced' upon a subject, such as treatment, challenge, sampling. Choose an event type an define the different parameters of the event.
Choose The Type Of Event
treatment, challenge, etc.
sampling event
Event Template
Body fluid (sampling event)
Group 1
Group 2
Group 3
Group 4
Start Time
Duration
Sample Template
0s
0s
Sample D
2w
3w
4w
4w 6d
7w
8w
9w

Example study

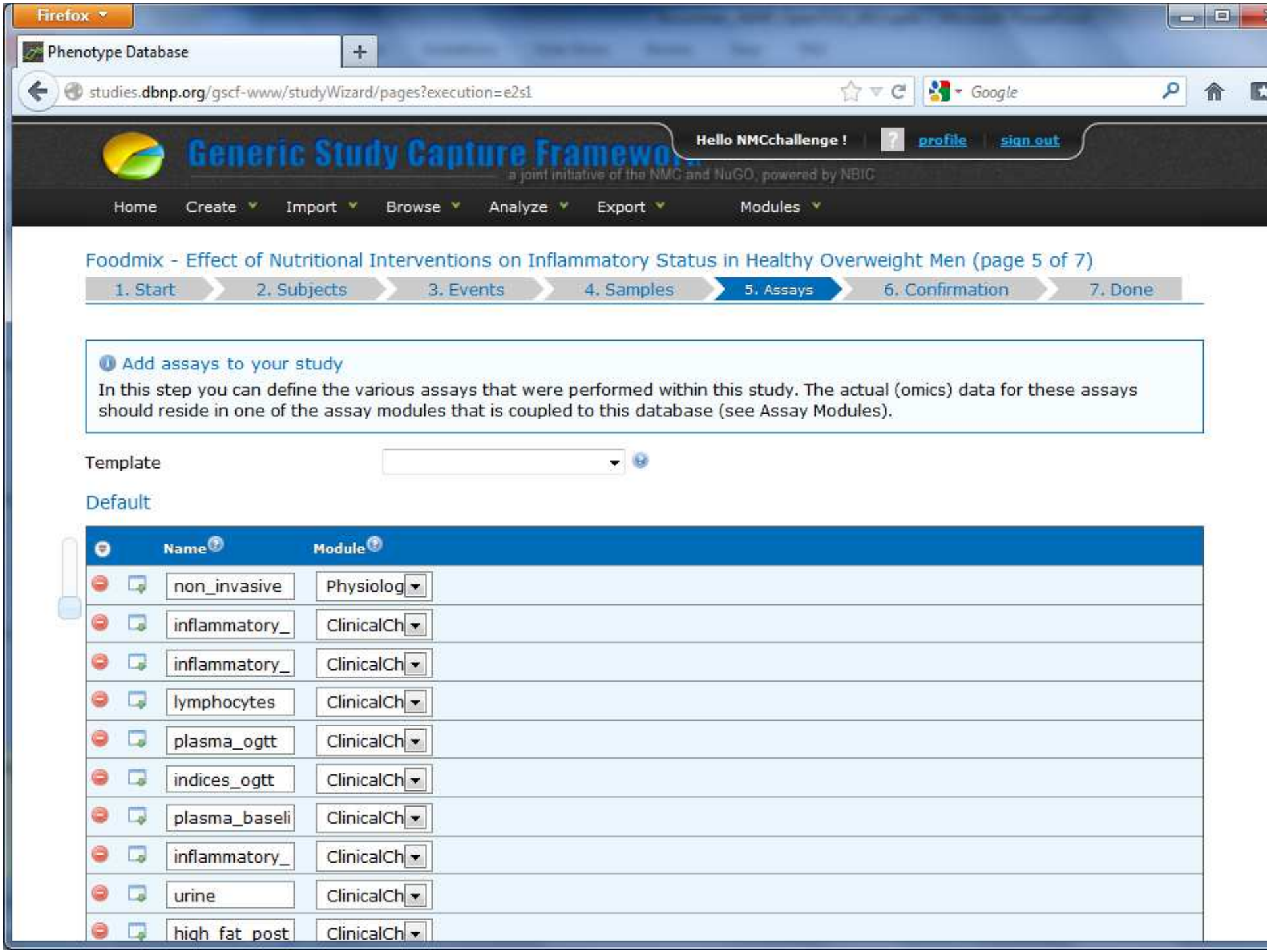


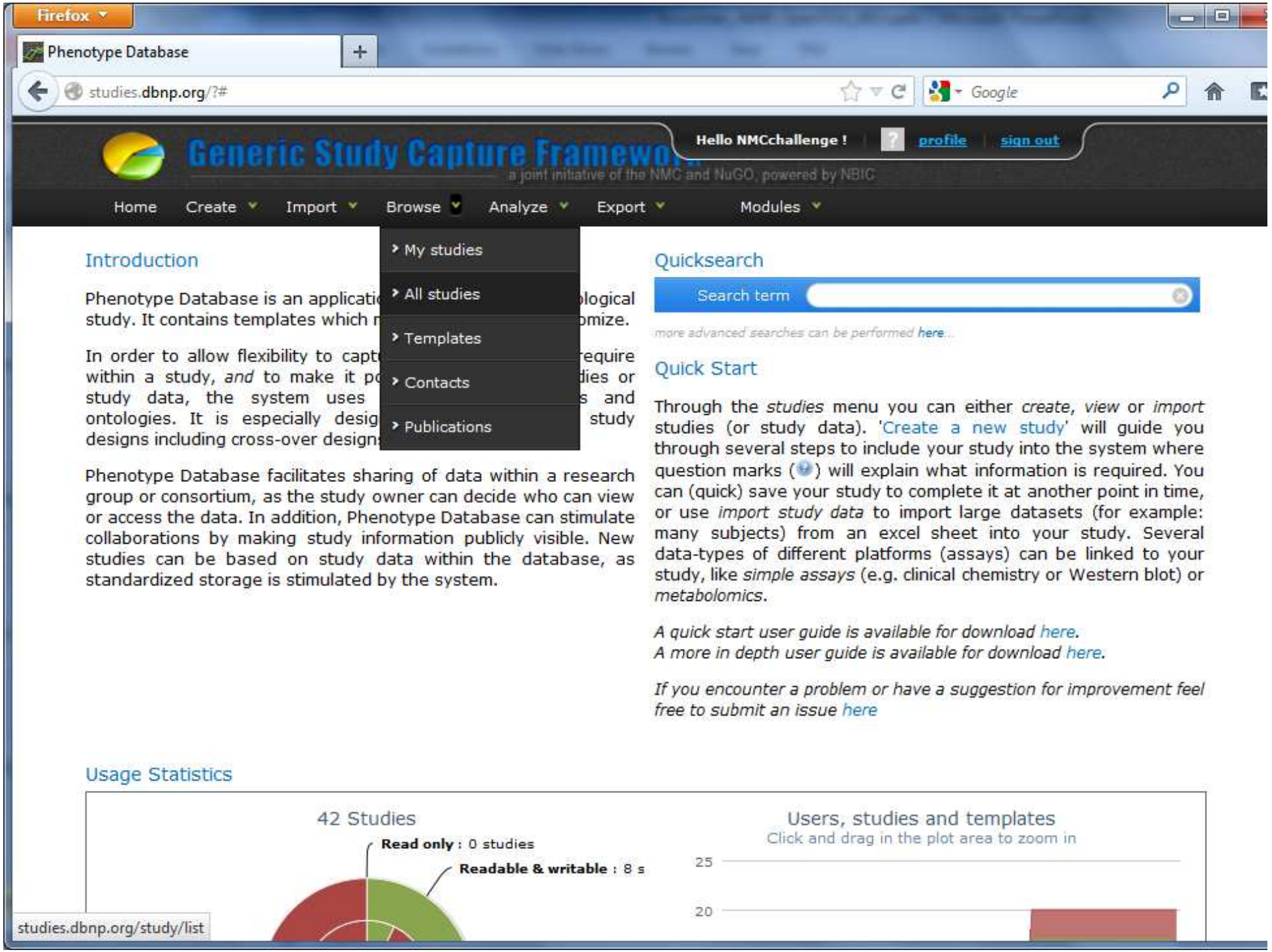

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e2s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Foodmix - Effect of Nutritional Interventions on Inflammatory Status in Healthy Overweight Men (page 3 of 7)
1. Start
2. Subjects
3. Events
4. Samples
5. Assays
6. Confirmation
7. Done
Assign subjects to eventgroups
In the previous page you defined events and grouped them together into eventgroups. Here you need to define which subjects belong to which eventgroup (hence: what events act upon a particular subject)
Subjects
Group 1
Group 2
Group 3
Group 4
Human
01-159
02-126
03-141
04-120
05-132
06-102
07-162
08-117
09-122
10-118
11-134
12-145

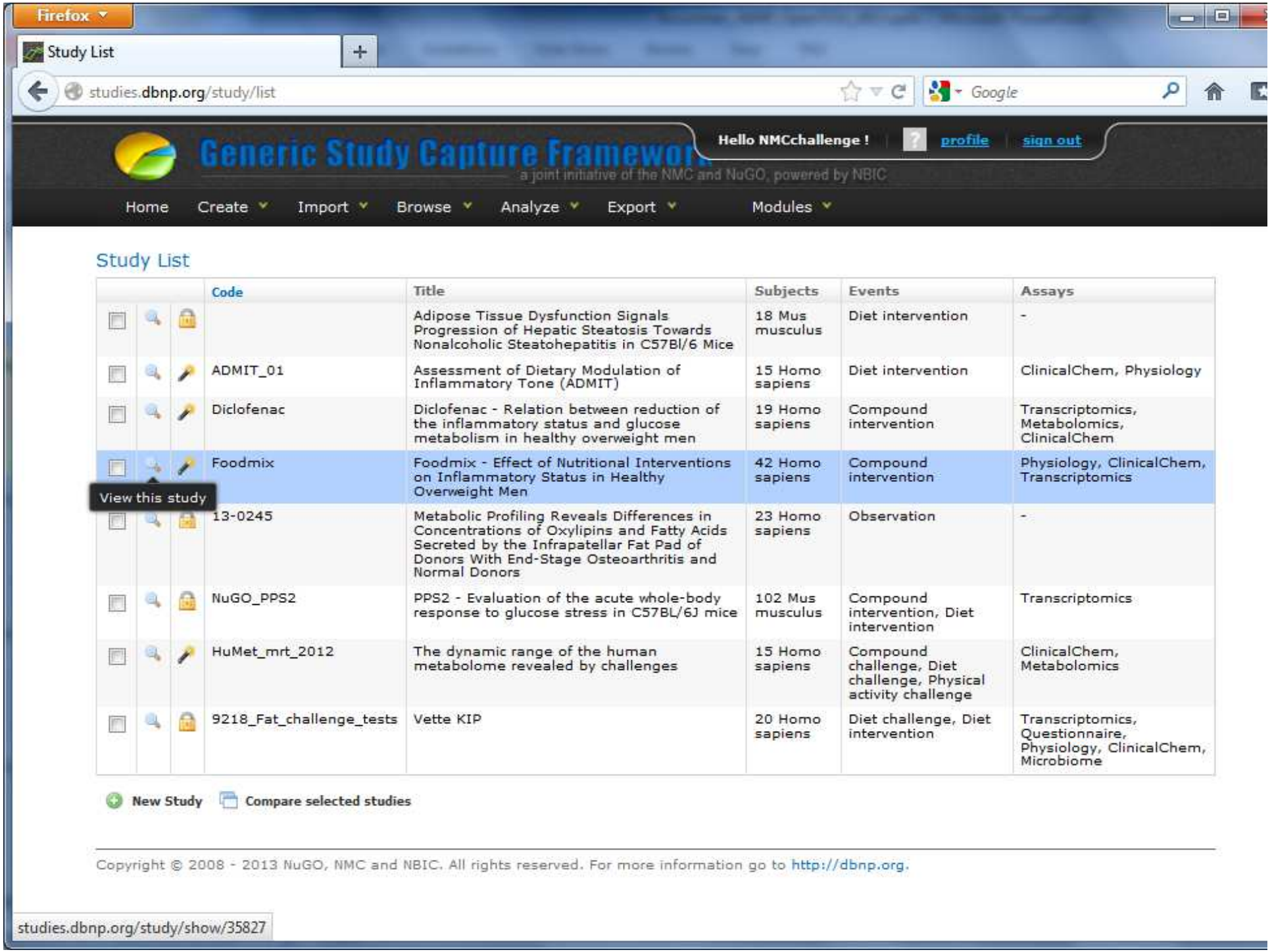
Example study

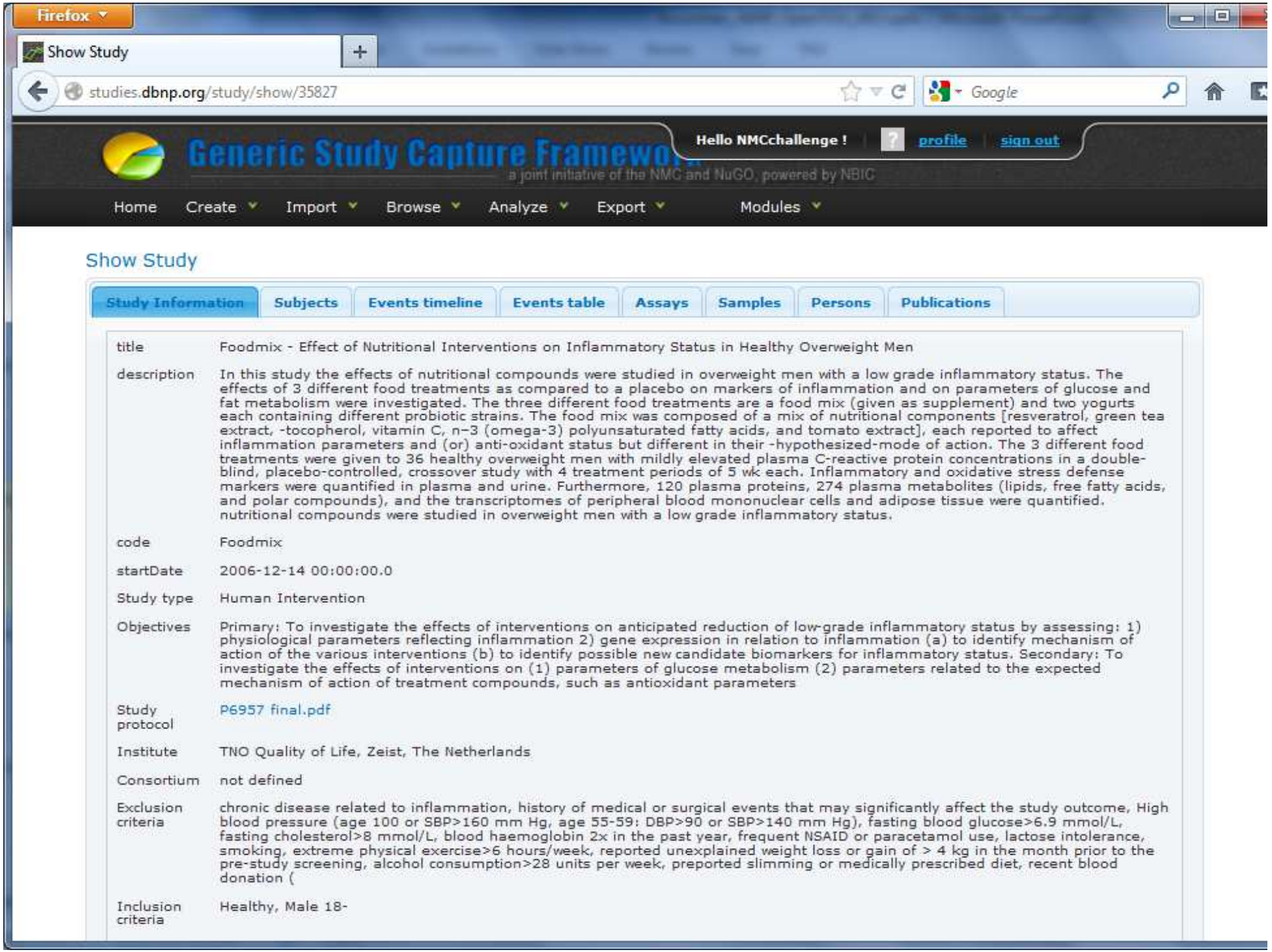


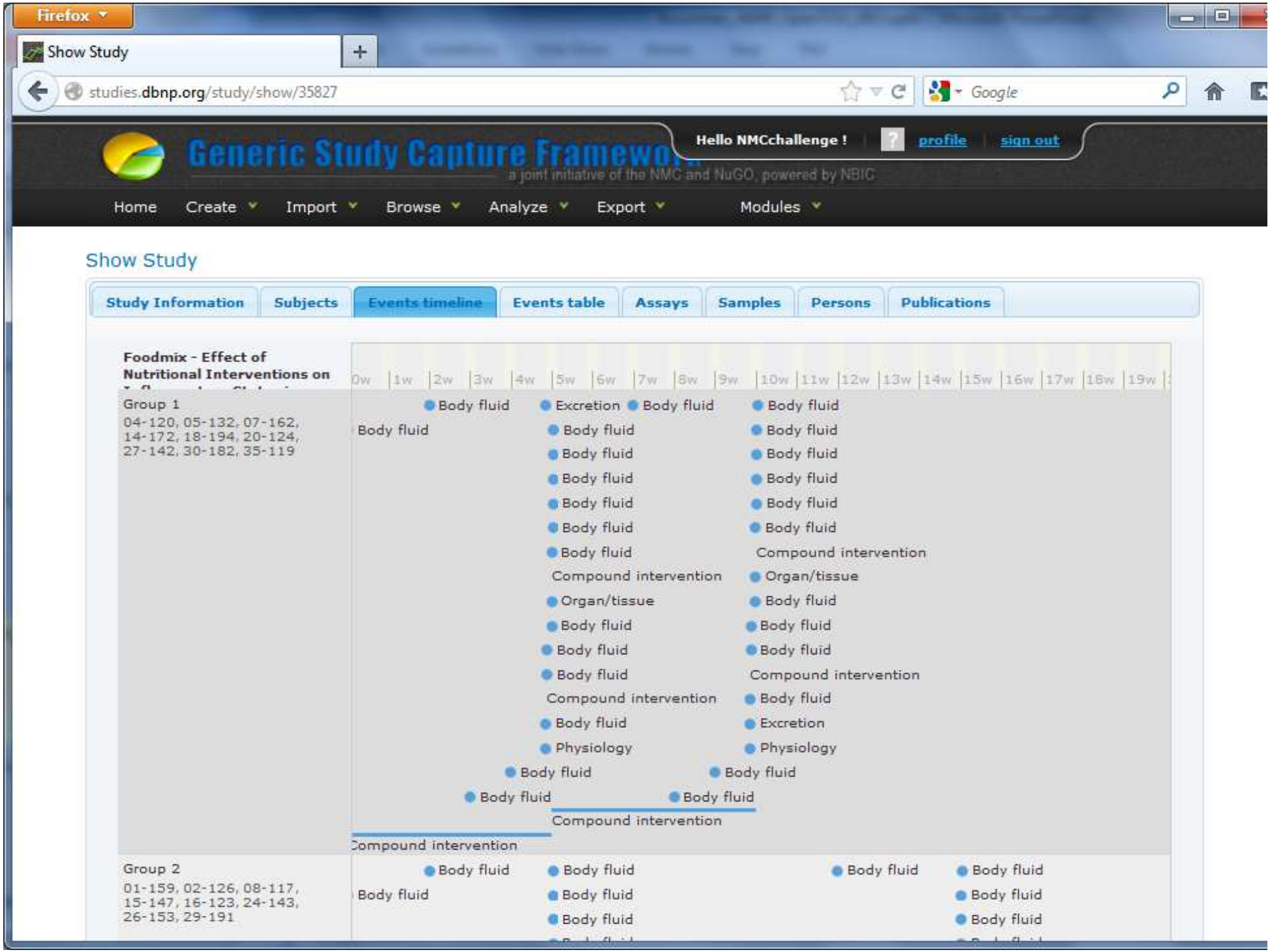
Plasma measurements:
Clinical Chemistry
Lipids LC-MS (TG, SPM, LPC, PC)
Free Fatty acids LC-MS
GCMS
Multiplex protein profiling (RBM)

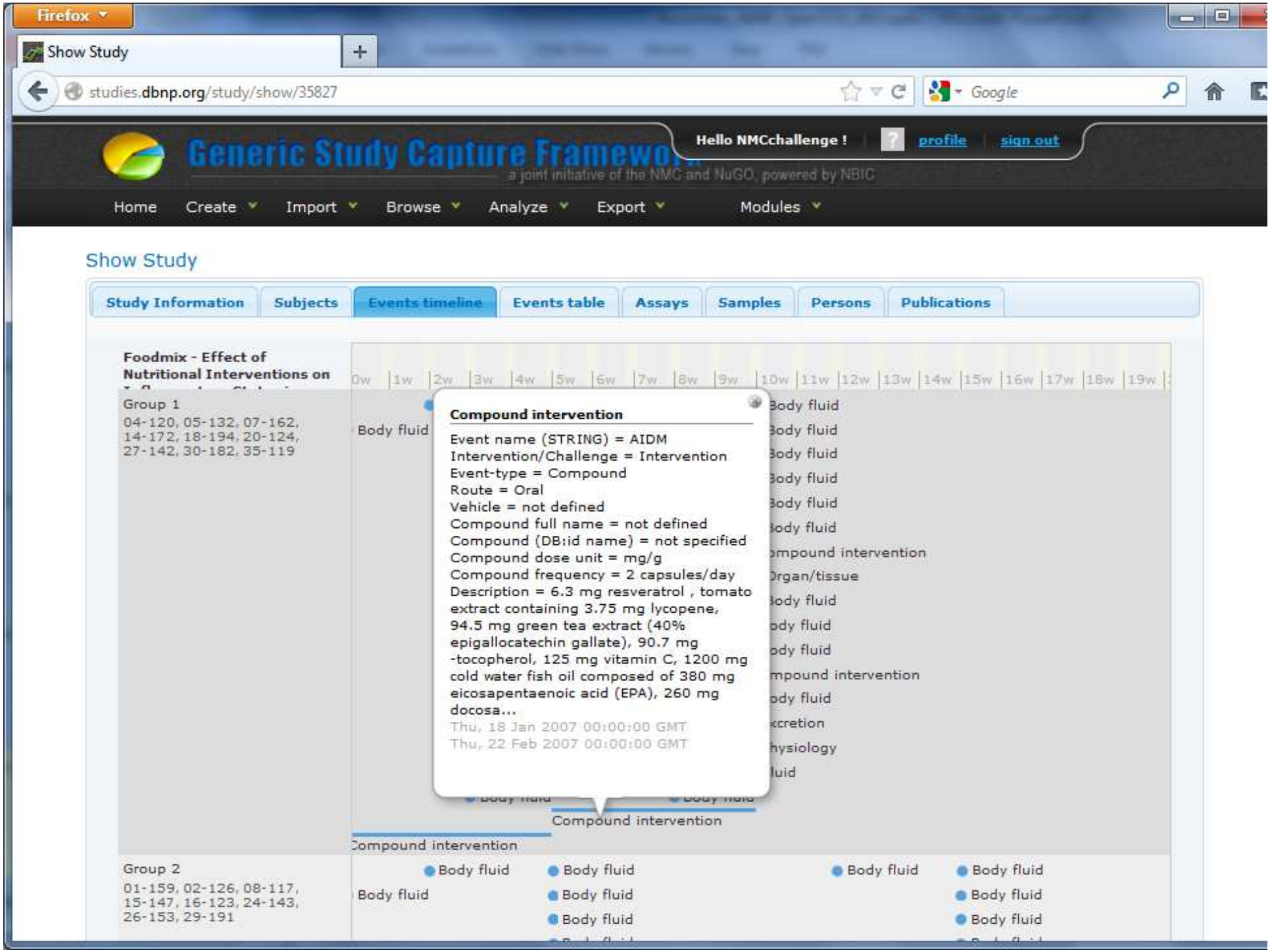

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/studyWizard/pages?execution=e2s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Foodmix - Effect of Nutritional Interventions on Inflammatory Status in Healthy Overweight Men (page 5 of 7)
1. Start
2. Subjects
3. Events
4. Samples
5. Assays
6. Confirmation
7. Done
Add assays to your study
In this step you can define the various assays that were performed within this study. The actual (omics) data for these assays should reside in one of the assay modules that is coupled to this database (see Assay Modules).
Template
Default
Name
Module
non_invasive
Physiolog
inflammatory_
ClinicalCh
inflammatory_
ClinicalCh
lymphocytes
ClinicalCh
plasma_ogtt
ClinicalCh
indices_ogtt
ClinicalCh
plasma_baseli
ClinicalCh
inflammatory_
ClinicalCh
urine
ClinicalCh
high_fat_post
ClinicalCh

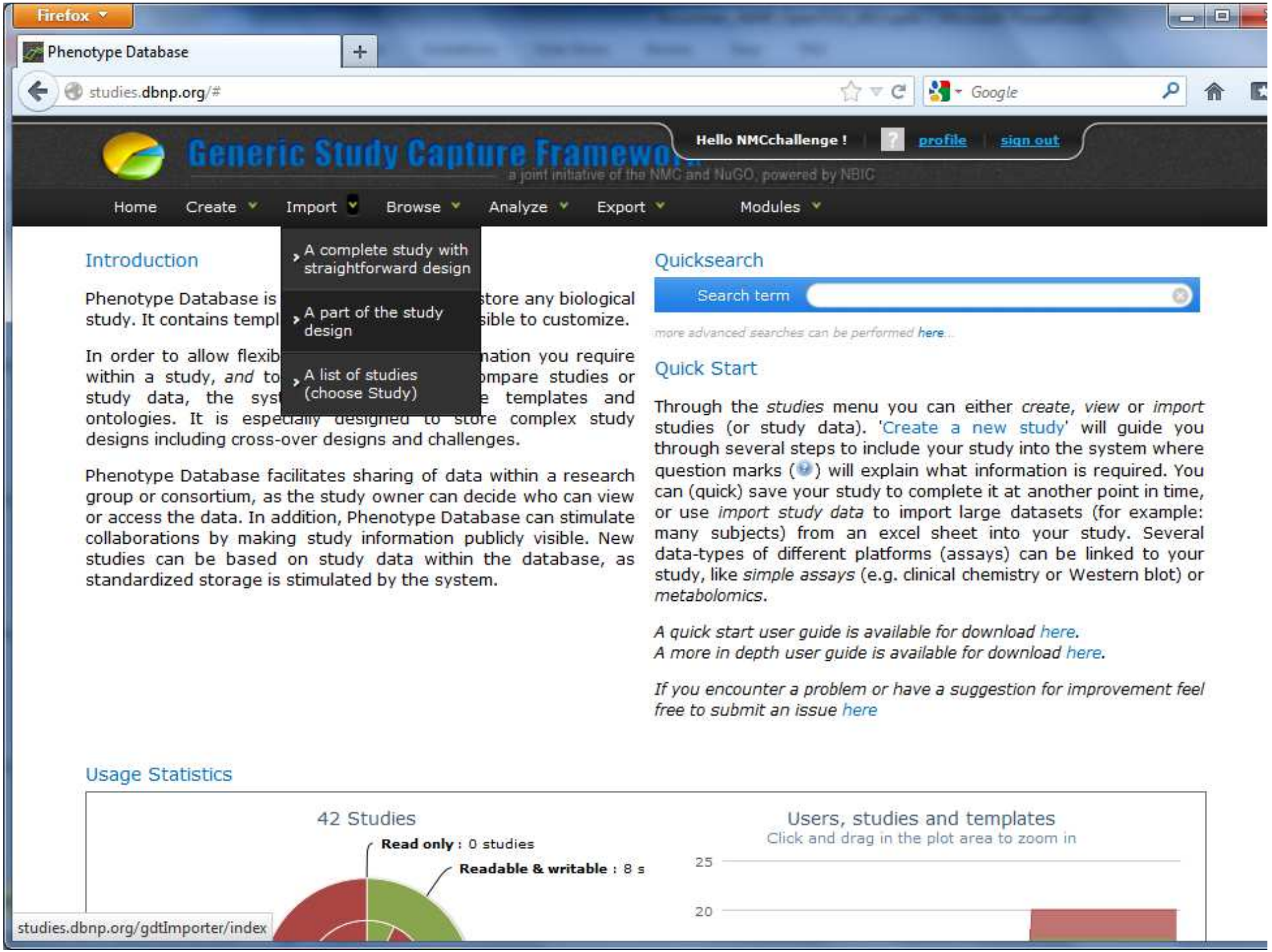

Firefox
Phenotype Database
studies.dbnp.org/?#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
My studies
All studies
Templates
Contacts
Publications
Introduction
Phenotype Database is an applicati ological study. It contains templates which n omize.
In order to allow flexibility to capt require within a study, and to make it po dies or study data, the system uses s and ontologies. It is especially desig study designs including cross-over design
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
Quicksearch
Search term
more advanced searches can be performed here..
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks ( ) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Read only : 0 studies
Readable & writable : 8 s
Users, studies and templates
Click and drag in the plot area to zoom in
25
20
studies.dbnp.org/study/list

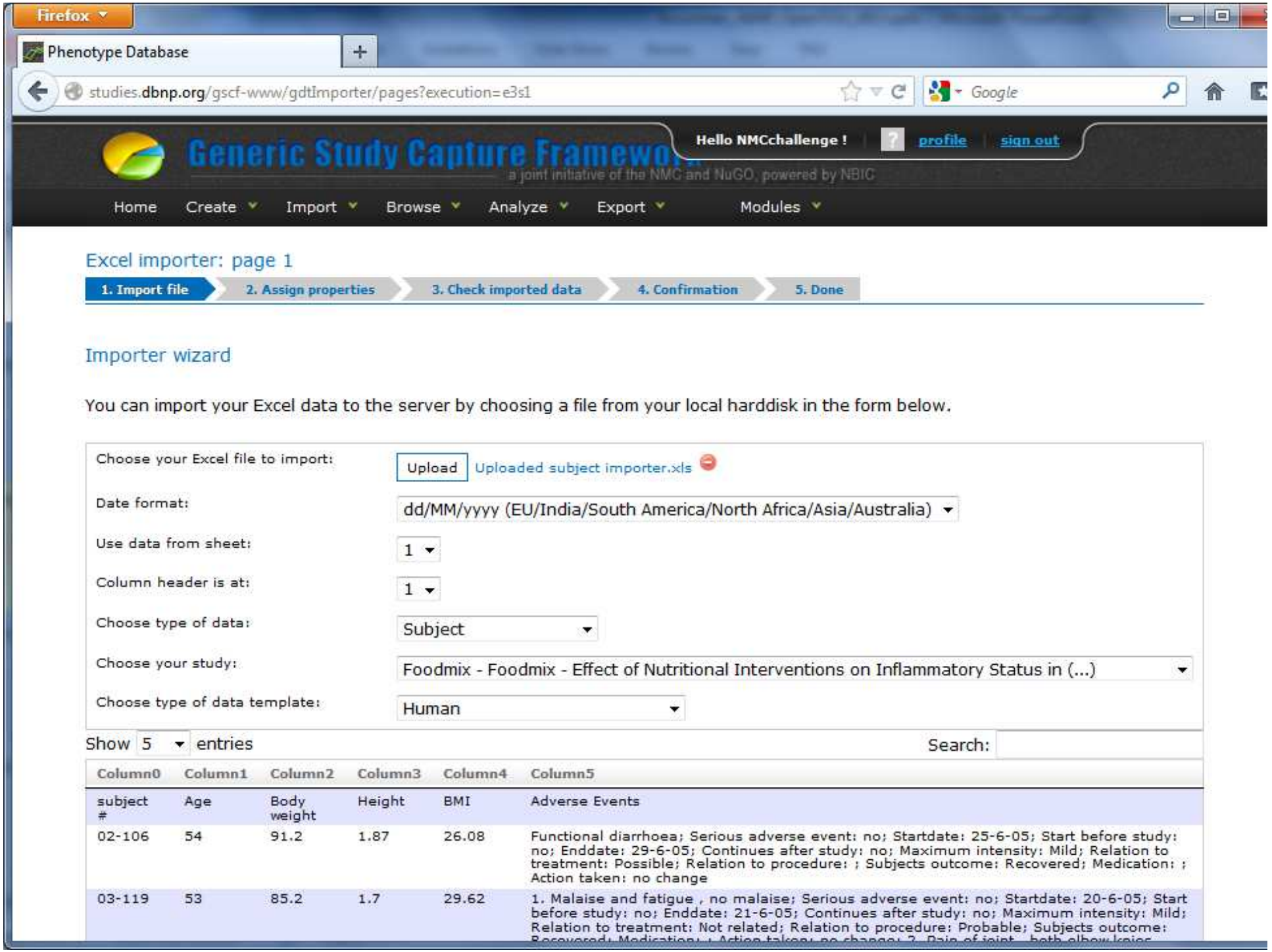

Firefox
Study List
studies.dbnp.org/study/list
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Study List
Code
Title
Subjects
Events
Assays
Adipose Tissue Dysfunction Signals Progression of Hepatic Steatosis Towards Nonalcoholic Steatohepatitis in C57Bl/6 Mice
18 Mus musculus
Diet intervention
-
ADMIT_01
Assessment of Dietary Modulation of Inflammatory Tone (ADMIT)
15 Homo sapiens
Diet intervention
ClinicalChem, Physiology
Diclofenac
Diclofenac - Relation between reduction of the inflammatory status and glucose metabolism in healthy overweight men
19 Homo sapiens
Compound intervention
Transcriptomics, Metabolomics, ClinicalChem
Foodmix
Foodmix - Effect of Nutritional Interventions on Inflammatory Status in Healthy Overweight Men
42 Homo sapiens
Compound intervention
Physiology, ClinicalChem, Transcriptomics
View this study
13-0245
Metabolic Profiling Reveals Differences in Concentrations of Oxylipins and Fatty Acids Secreted by the Infrapatellar Fat Pad of Donors With End-Stage Osteoarthritis and Normal Donors
23 Homo sapiens
Observation
-
NuGO_PPS2
PPS2 - Evaluation of the acute whole-body response to glucose stress in C57BL/6J mice
102 Mus musculus
Compound intervention, Diet intervention
Transcriptomics
HuMet_mrt_2012
The dynamic range of the human metabolome revealed by challenges
15 Homo sapiens
Compound challenge, Diet challenge, Physical activity challenge
ClinicalChem, Metabolomics
9218_Fat_challenge_tests
Vette KIP
20 Homo sapiens
Diet challenge, Diet intervention
Transcriptomics, Questionnaire, Physiology, ClinicalChem, Microbiome
New Study
Compare selected studies
Copyright © 2008 - 2013 NuGO, NMC and NBIC. All rights reserved. For more information go to http://dbnp.org.
studies.dbnp.org/study/show/35827

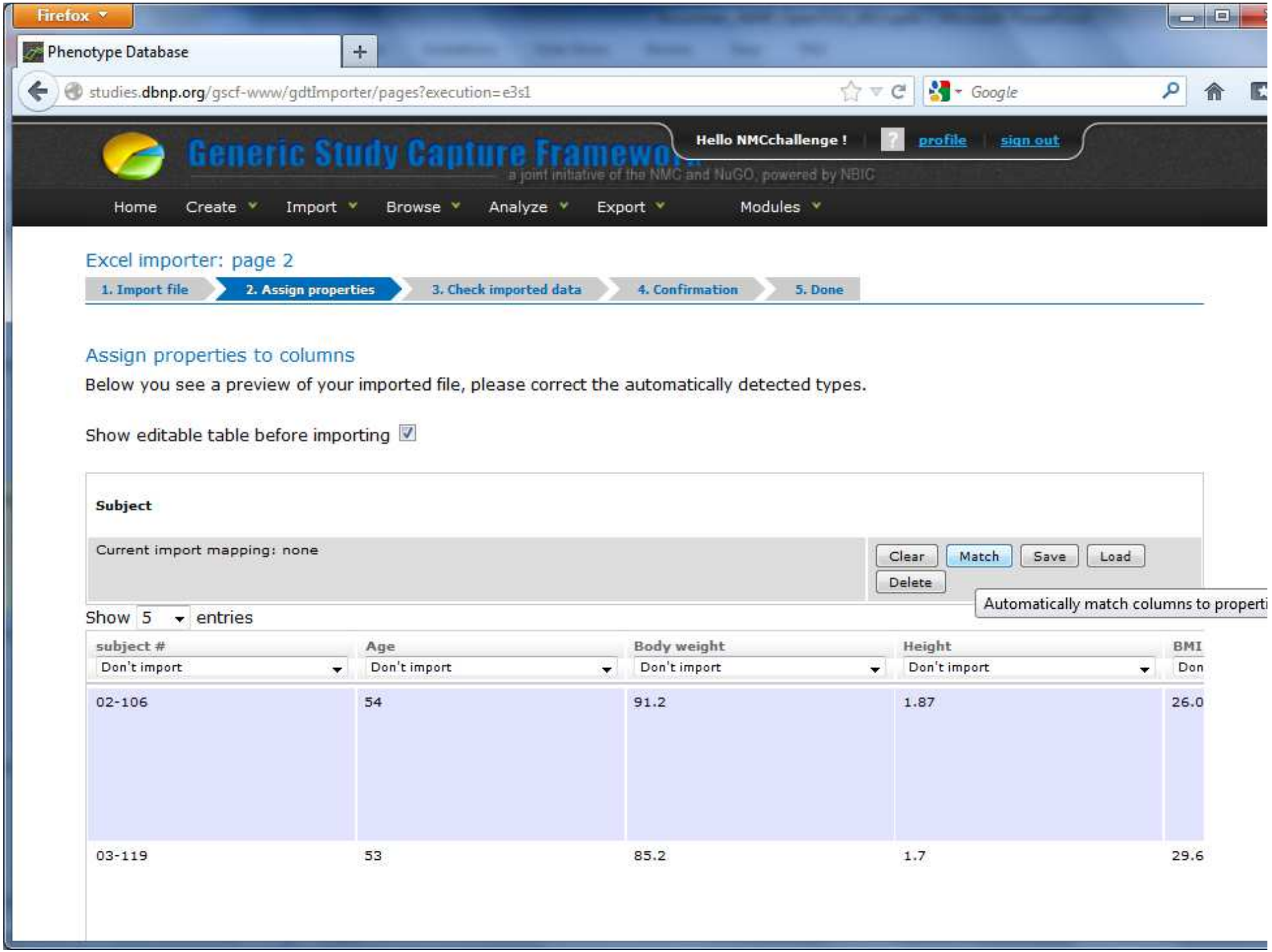

Firefox
Show Study
studies.dbnp.org/study/show/35827
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Show Study
Study Information
Subjects
Events timeline
Events table
Assays
Samples
Persons
Publications
title
Foodmix - Effect of Nutritional Interventions on Inflammatory Status in Healthy Overweight Men
description
In this study the effects of nutritional compounds were studied in overweight men with a low grade inflammatory status. The effects of 3 different food treatments as compared to a placebo on markers of inflammation and on parameters of glucose and fat metabolism were investigated. The three different food treatments are a food mix (given as supplement) and two yogurts each containing different probiotic strains. The food mix was composed of a mix of nutritional components [resveratrol, green tea extract, -tocopherol, vitamin C, n–3 (omega-3) polyunsaturated fatty acids, and tomato extract], each reported to affect inflammation parameters and (or) anti-oxidant status but different in their -hypothesized-mode of action. The 3 different food treatments were given to 36 healthy overweight men with mildly elevated plasma C-reactive protein concentrations in a double-blind, placebo-controlled, crossover study with 4 treatment periods of 5 wk each. Inflammatory and oxidative stress defense markers were quantified in plasma and urine. Furthermore, 120 plasma proteins, 274 plasma metabolites (lipids, free fatty acids, and polar compounds), and the transcriptomes of peripheral blood mononuclear cells and adipose tissue were quantified. nutritional compounds were studied in overweight men with a low grade inflammatory status.
code
Foodmix
startDate
2006-12-14 00:00:00.0
Study type
Human Intervention
Objectives
Primary: To investigate the effects of interventions on anticipated reduction of low-grade inflammatory status by assessing: 1) physiological parameters reflecting inflammation 2) gene expression in relation to inflammation (a) to identify mechanism of action of the various interventions (b) to identify possible new candidate biomarkers for inflammatory status. Secondary: To investigate the effects of interventions on (1) parameters of glucose metabolism (2) parameters related to the expected mechanism of action of treatment compounds, such as antioxidant parameters
Study protocol
P6957 final.pdf
Institute
TNO Quality of Life, Zeist, The Netherlands
Consortium
not defined
Exclusion criteria
chronic disease related to inflammation, history of medical or surgical events that may significantly affect the study outcome, High blood pressure (age 100 or SBP>160 mm Hg, age 55-59: DBP>90 or SBP>140 mm Hg), fasting blood glucose>6.9 mmol/L, fasting cholesterol>8 mmol/L, blood haemoglobin 2x in the past year, frequent NSAID or paracetamol use, lactose intolerance, smoking, extreme physical exercise>6 hours/week, reported unexplained weight loss or gain of > 4 kg in the month prior to the pre-study screening, alcohol consumption>28 units per week, preported slimming or medically prescribed diet, recent blood donation (
Inclusion criteria
Healthy, Male 18-

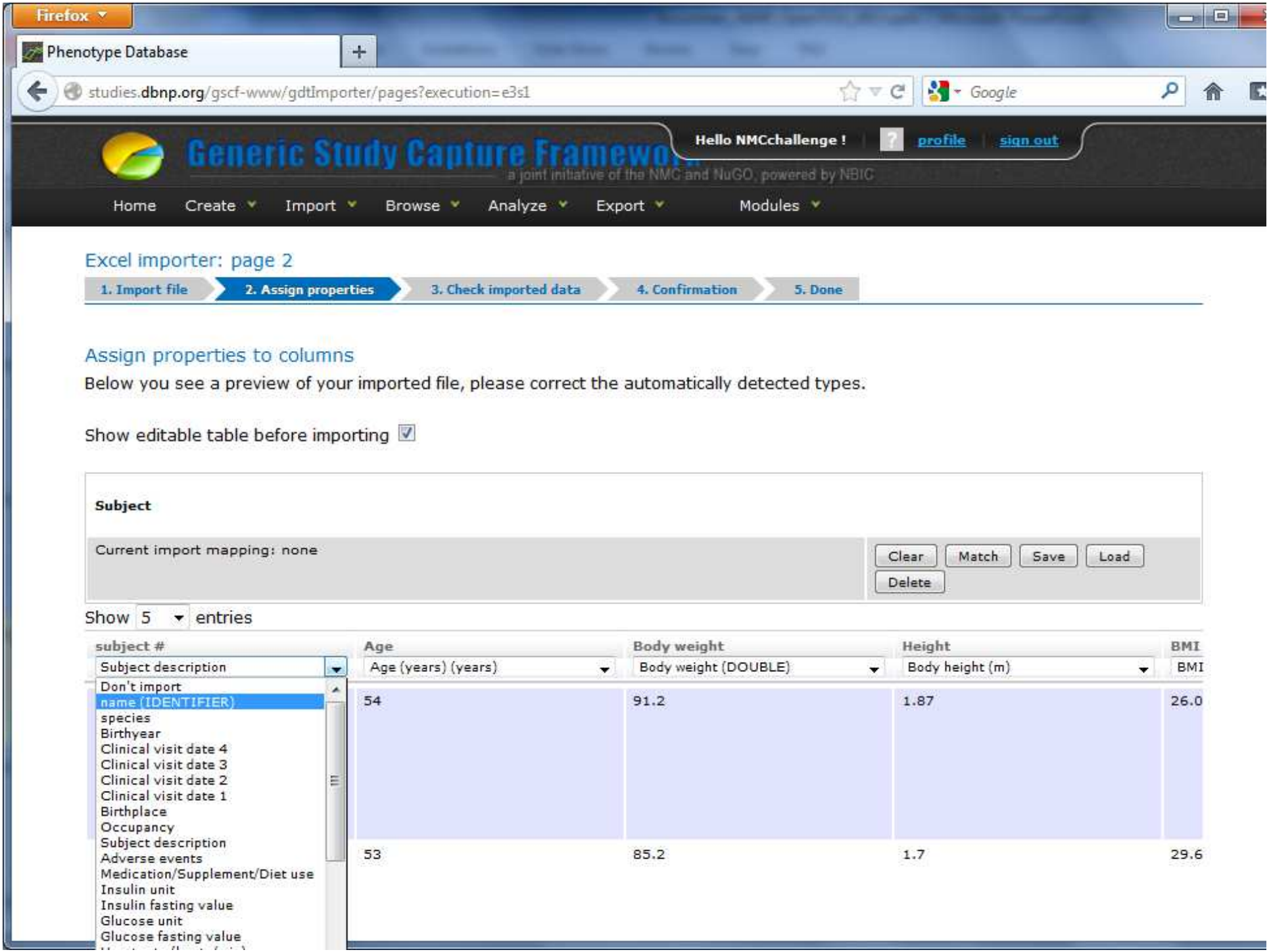

Firefox
Show Study
studies.dbnp.org/study/show/35827
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Show Study
Study Information
Subjects
Events timeline
Events table
Assays
Samples
Persons
Publications
Foodmix - Effect of Nutritional Interventions on
0w 1w 2w 3w 4w 5w 6w 7w 8w 9w 10w 11w 12w 13w 14w 15w 16w 17w 18w 19w
Group 1
04-120, 05-132, 07-162, 14-172, 18-194, 20-124, 27-142, 30-182, 35-119
Body fluid
Excretion
Compound intervention
Organ/tissue
Physiology
Group 2
01-159, 02-126, 08-117, 15-147, 16-123, 24-143, 26-153, 29-191

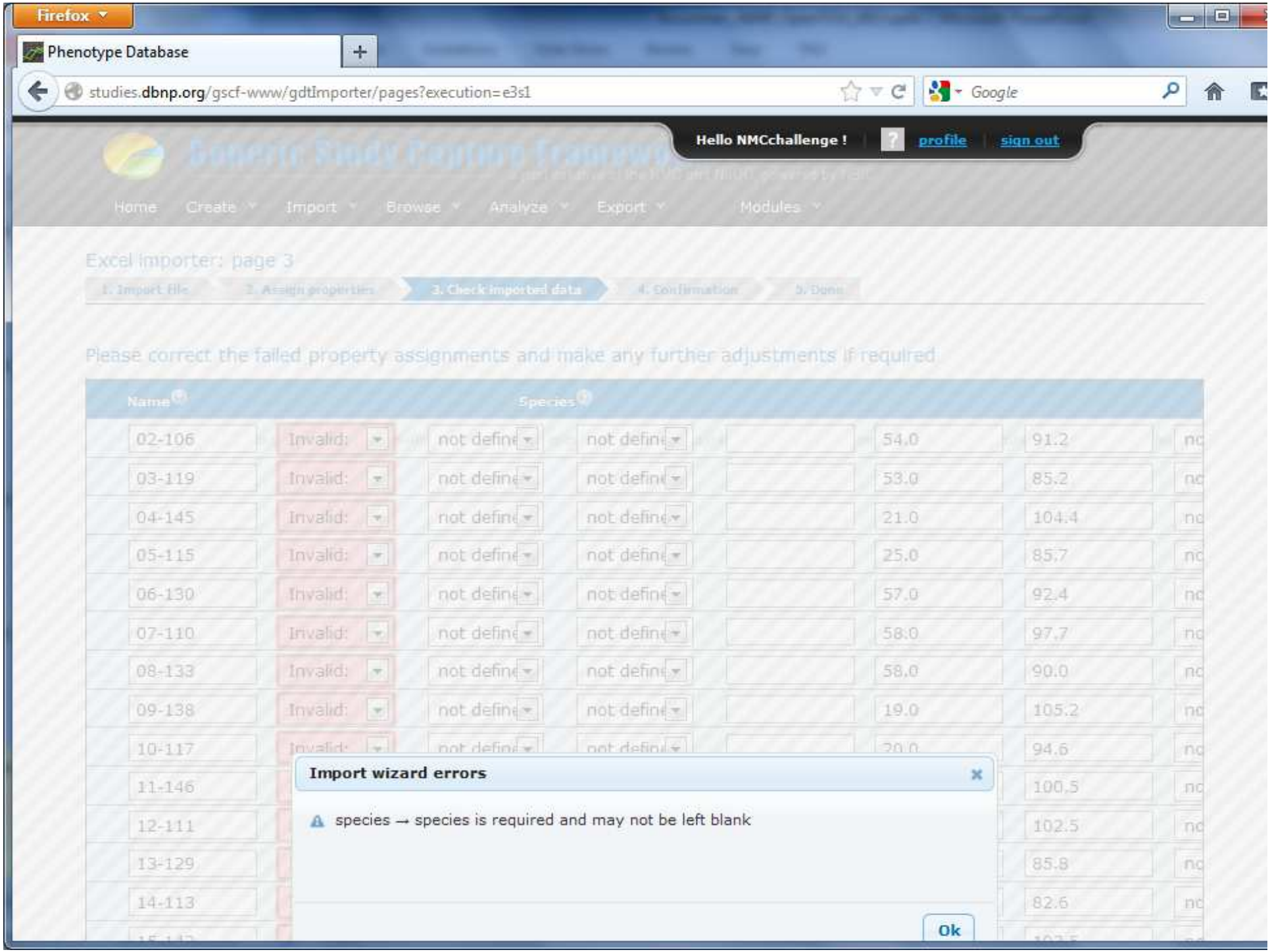

Firefox
Show Study
studies.dbnp.org/study/show/35827
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Show Study
Study Information
Subjects
Events timeline
Events table
Assays
Samples
Persons
Publications
Foodmix - Effect of Nutritional Interventions on
0w 1w 2w 3w 4w 5w 6w 7w 8w 9w 10w 11w 12w 13w 14w 15w 16w 17w 18w 19w
Group 1
04-120, 05-132, 07-162, 14-172, 18-194, 20-124, 27-142, 30-182, 35-119
Body fluid
Compound intervention
Event name (STRING) = AIDM
Intervention/Challenge = Intervention
Event-type = Compound
Route = Oral
Vehicle = not defined
Compound full name = not defined
Compound (DB:id name) = not specified
Compound dose unit = mg/g
Compound frequency = 2 capsules/day
Description = 6.3 mg resveratrol , tomato extract containing 3.75 mg lycopene, 94.5 mg green tea extract (40% epigallocatechin gallate), 90.7 mg -tocopherol, 125 mg vitamin C, 1200 mg cold water fish oil composed of 380 mg eicosapentaenoic acid (EPA), 260 mg docosa...
Thu, 18 Jan 2007 00:00:00 GMT
Thu, 22 Feb 2007 00:00:00 GMT
Compound intervention
Compound intervention
Group 2
01-159, 02-126, 08-117, 15-147, 16-123, 24-143, 26-153, 29-191
Body fluid

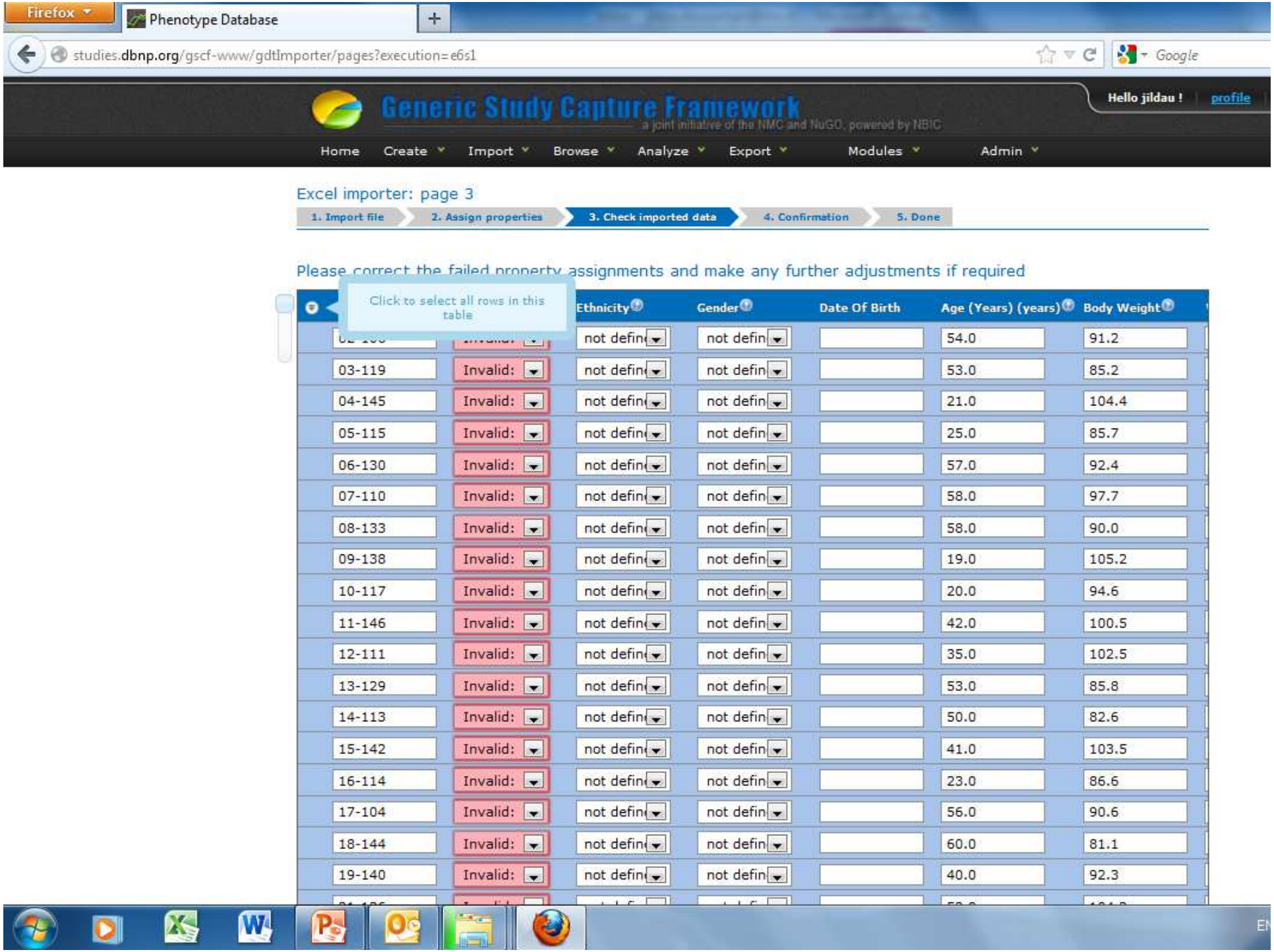

Firefox
Phenotype Database
studies.dbnp.org/#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
A complete study with straightforward design
A part of the study design
A list of studies (choose Study)
Introduction
Phenotype Database is
store any biological study. It contains templ
sible to customize.
In order to allow flexib
nation you require within a study, and to
ompare studies or study data, the syst
e templates and ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
Quicksearch
Search term
more advanced searches can be performed here..
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks ( ) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Read only : 0 studies
Readable & writable : 8 s
Users, studies and templates
Click and drag in the plot area to zoom in
25
20
studies.dbnp.org/gdtImporter/index

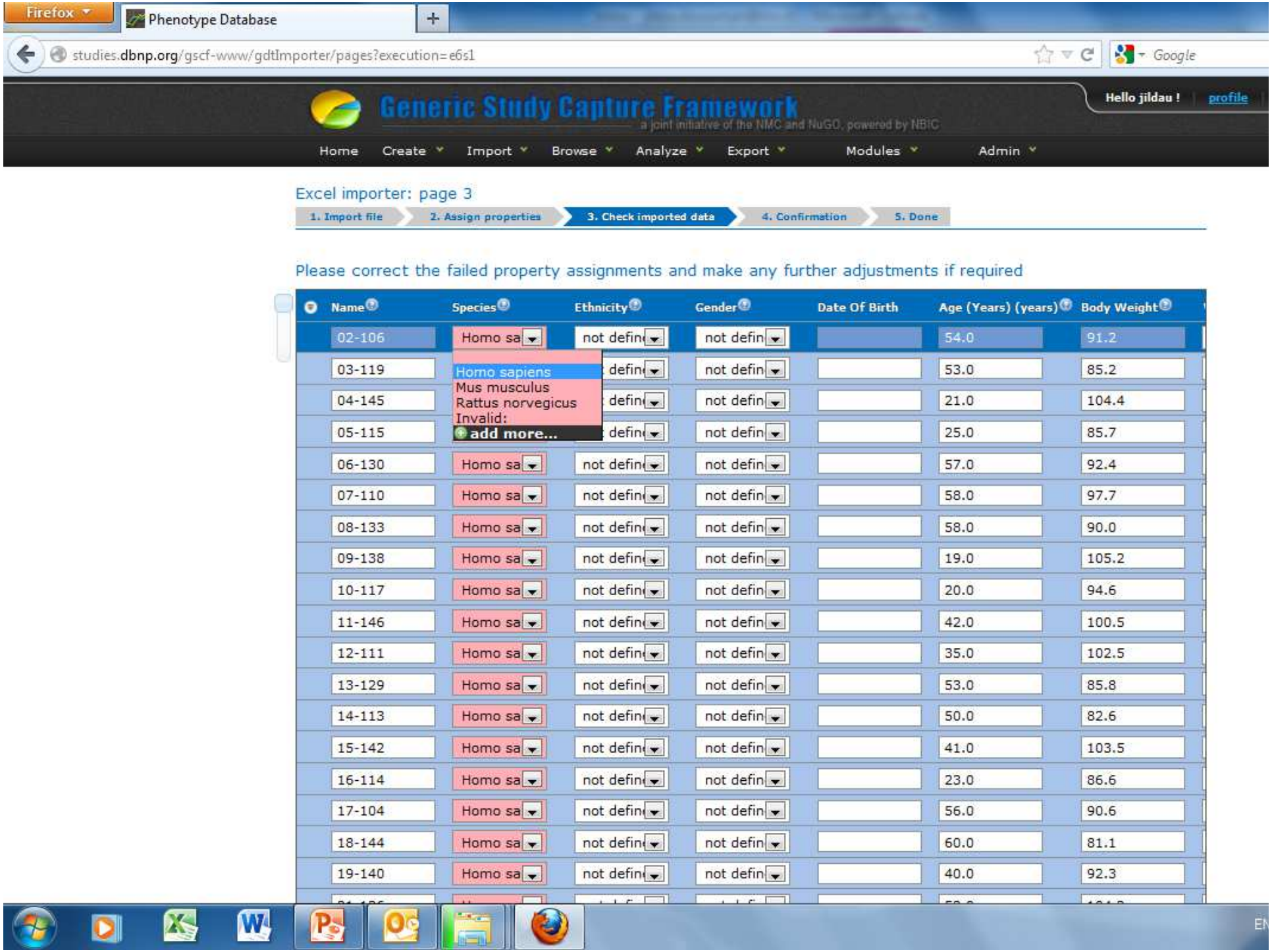

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/gdtImporter/pages?execution=e3s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Excel importer: page 1
1. Import file
2. Assign properties
3. Check imported data
4. Confirmation
5. Done
Importer wizard
You can import your Excel data to the server by choosing a file from your local harddisk in the form below.
Choose your Excel file to import:
Upload
Uploaded subject importer.xls
Date format:
dd/MM/yyyy (EU/India/South America/North Africa/Asia/Australia)
Use data from sheet:
1
Column header is at:
1
Choose type of data:
Subject
Choose your study:
Foodmix - Foodmix - Effect of Nutritional Interventions on Inflammatory Status in (...)
Choose type of data template:
Human
Show 5 entries
Search:
Column0
Column1
Column2
Column3
Column4
Column5
subject #
Age
Body weight
Height
BMI
Adverse Events
02-106
54
91.2
1.87
26.08
Functional diarrhoea; Serious adverse event: no; Startdate: 25-6-05; Start before study: no; Enddate: 29-6-05; Continues after study: no; Maximum intensity: Mild; Relation to treatment: Possible; Relation to procedure: ; Subjects outcome: Recovered; Medication: ; Action taken: no change
03-119
53
85.2
1.7
29.62
1. Malaise and fatigue , no malaise; Serious adverse event: no; Startdate: 20-6-05; Start before study: no; Enddate: 21-6-05; Continues after study: no; Maximum intensity: Mild; Relation to treatment: Not related; Relation to procedure: Probable; Subjects outcome:

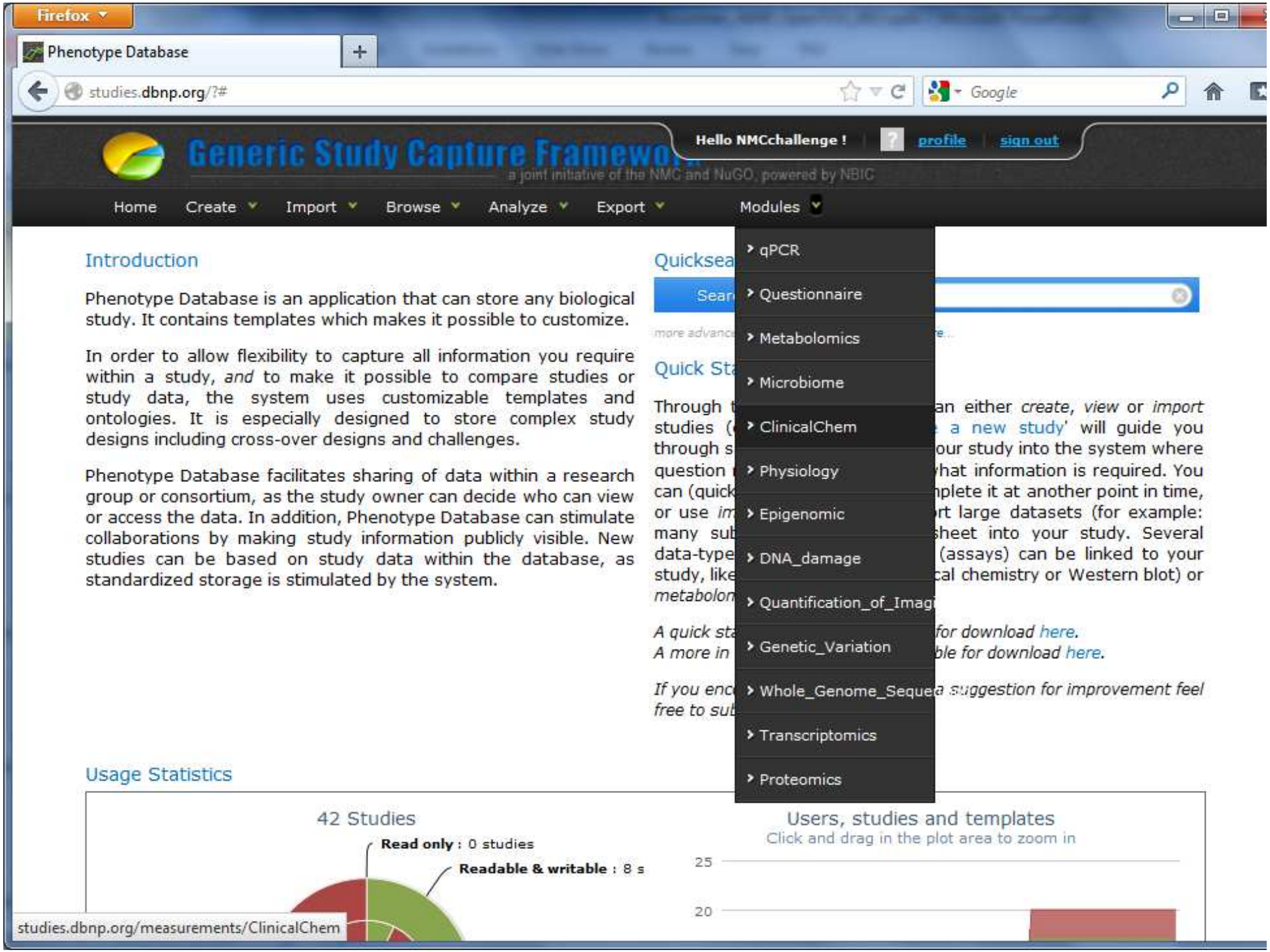

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/gdtImporter/pages?execution=e3s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Excel importer: page 2
1. Import file
2. Assign properties
3. Check imported data
4. Confirmation
5. Done
Assign properties to columns
Below you see a preview of your imported file, please correct the automatically detected types.
Show editable table before importing
Subject
Current import mapping: none
Clear
Match
Save
Load
Delete
Automatically match columns to properti
Show 5 entries
subject #
Age
Body weight
Height
BMI
Don't import
Don't import
Don't import
Don't import
Don
02-106
54
91.2
1.87
26.0
03-119
53
85.2
1.7
29.6

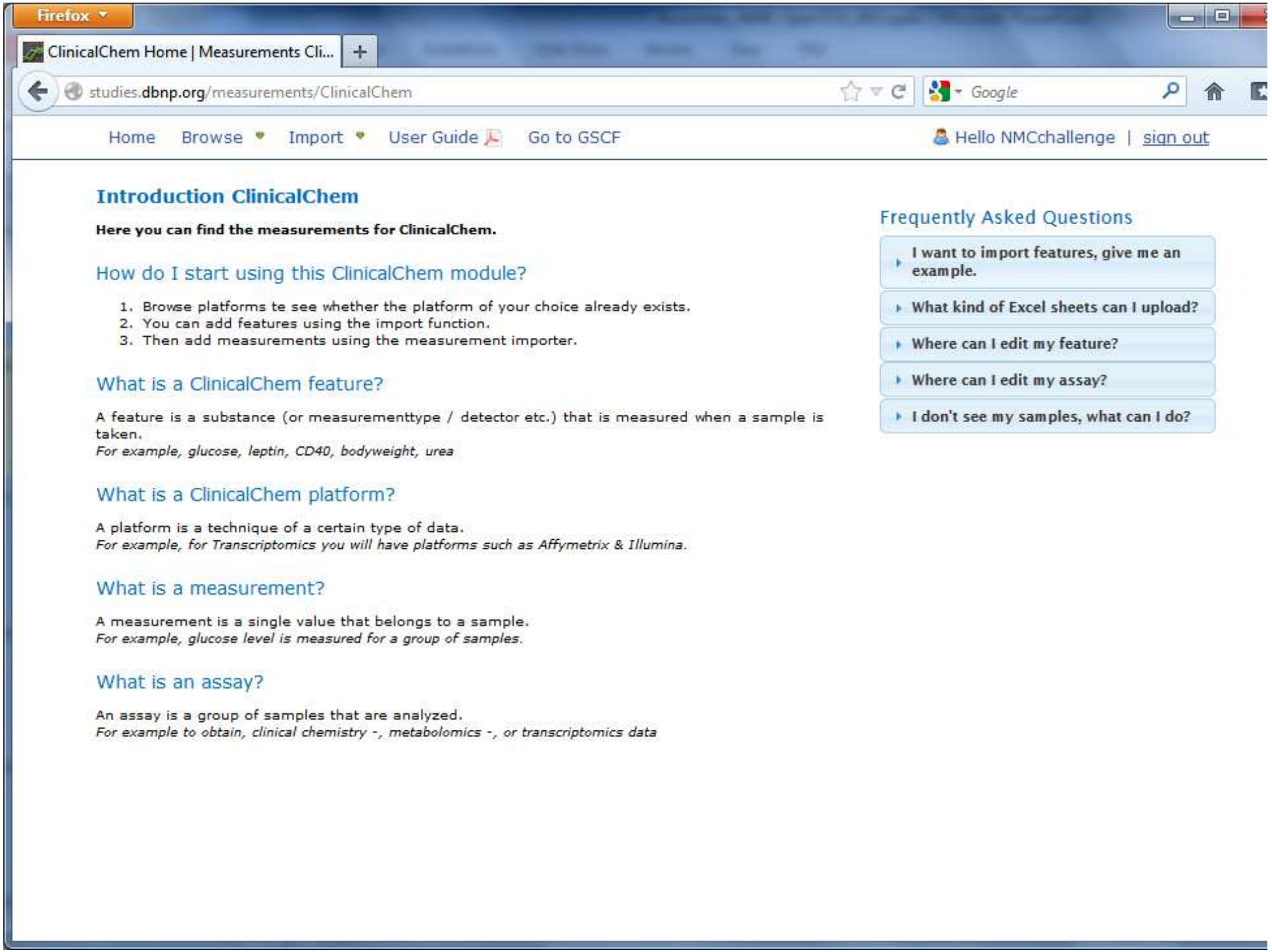

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/gdtImporter/pages?execution=e3s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Excel importer: page 2
1. Import file
2. Assign properties
3. Check imported data
4. Confirmation
5. Done
Assign properties to columns
Below you see a preview of your imported file, please correct the automatically detected types.
Show editable table before importing
Subject
Current import mapping: none
Clear
Match
Save
Load
Delete
Show 5 entries
subject #
Age
Body weight
Height
BMI
Subject description
Age (years) (years)
Body weight (DOUBLE)
Body height (m)
BMI
Don't import
name (IDENTIFIER)
species
Birthyear
Clinical visit date 4
Clinical visit date 3
Clinical visit date 2
Clinical visit date 1
Birthplace
Occupancy
Subject description
Adverse events
Medication/Supplement/Diet use
Insulin unit
Insulin fasting value
Glucose unit
Glucose fasting value
54
91.2
1.87
26.0
53
85.2
1.7
29.6

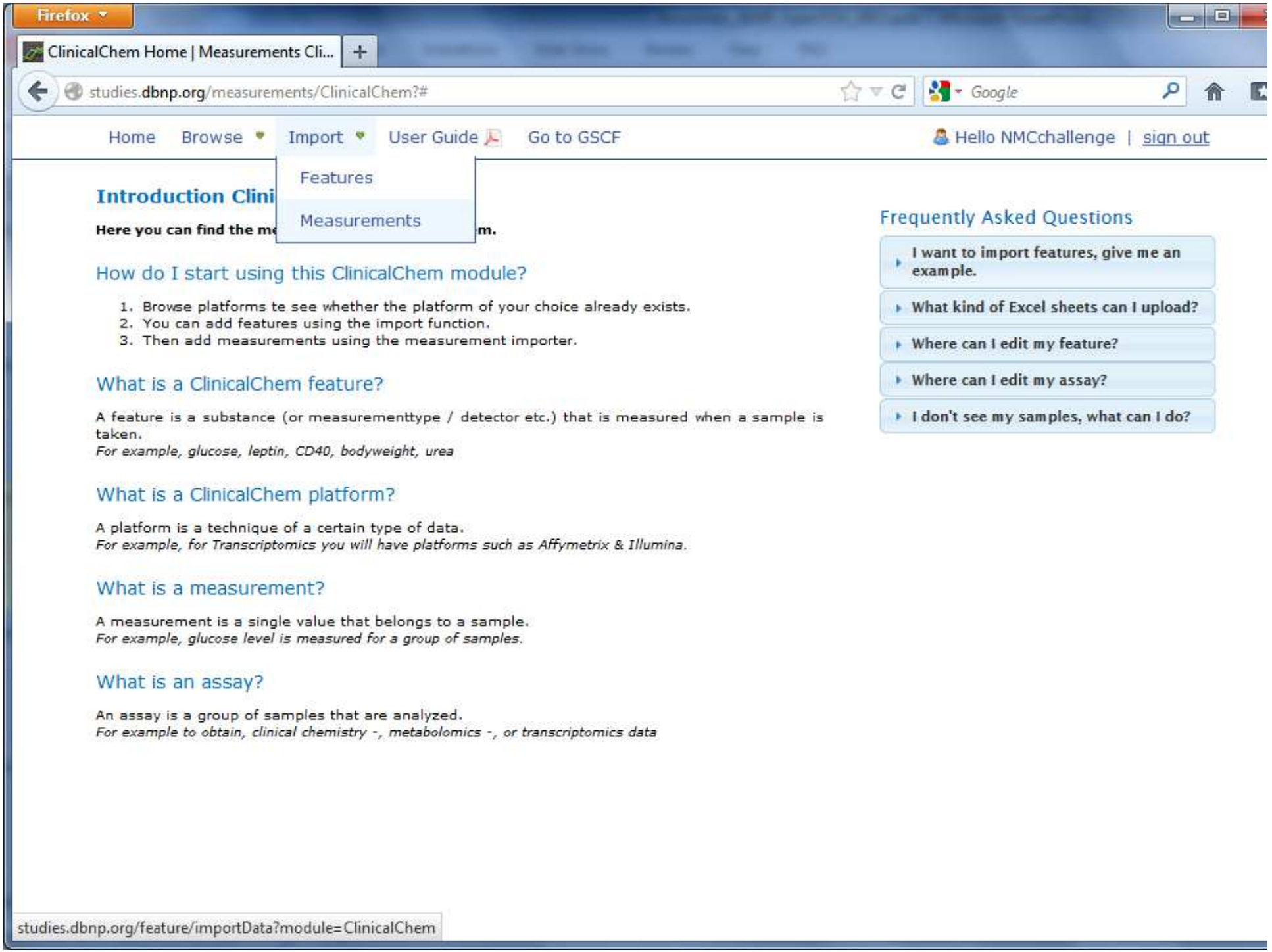

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/gdtImporter/pages?execution=e3s1
Google
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Excel importer: page 3
1. Import file
2. Assign properties
3. Check imported data
4. Confirmation
5. Done
Please correct the failed property assignments and make any further adjustments if required
Name
Species
02-106
03-119
04-145
05-115
06-130
07-110
08-133
09-138
10-117
11-146
12-111
13-129
14-113
Invalid:
not define
54.0
91.2
53.0
85.2
21.0
104.4
25.0
85.7
57.0
92.4
58.0
97.7
58.0
90.0
19.0
105.2
94.6
100.5
102.5
85.8
82.6
Import wizard errors
species → species is required and may not be left blank
Ok

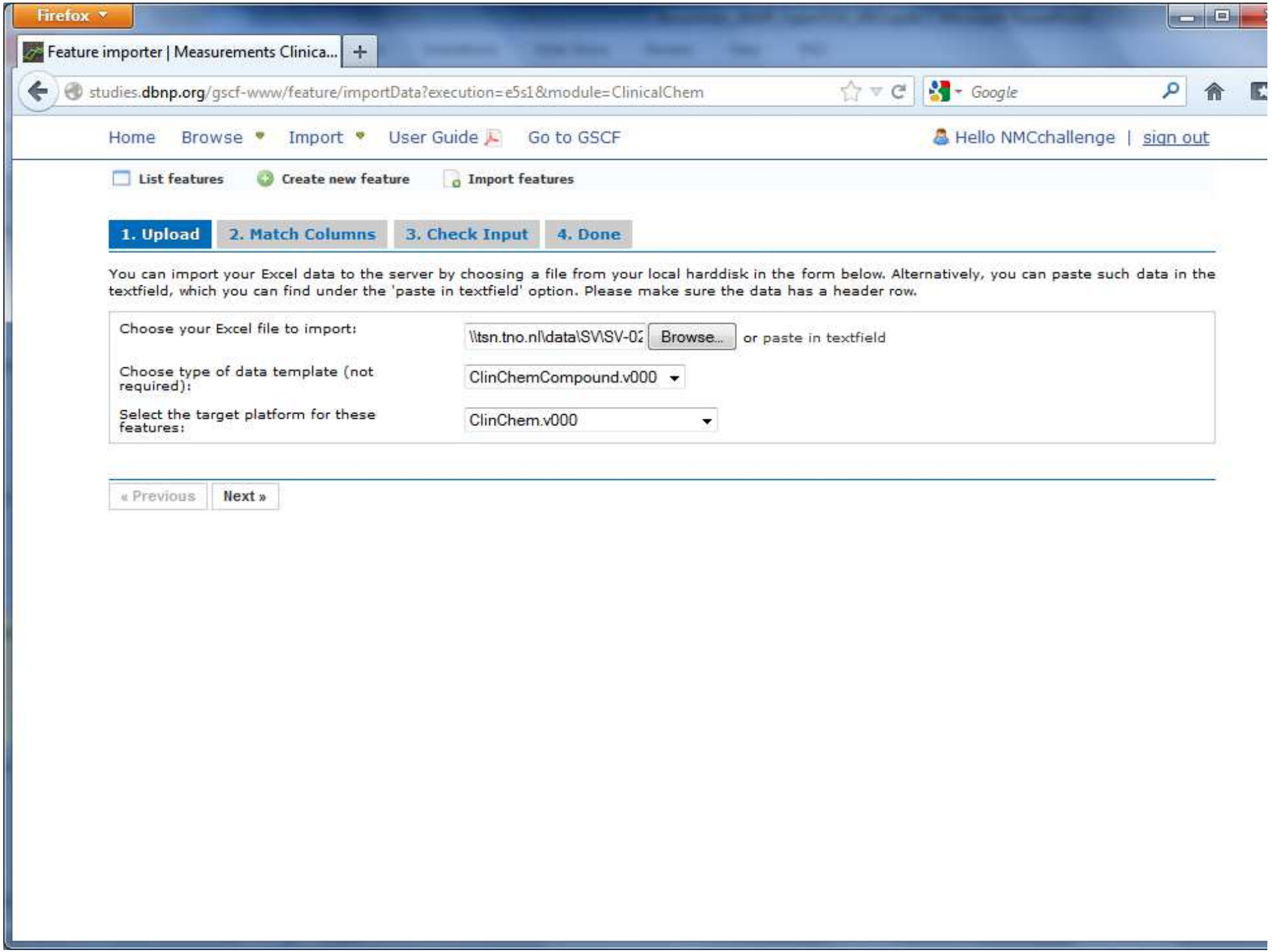

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/gdtImporter/pages?execution=e6s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Excel importer: page 3
1. Import file
2. Assign properties
3. Check imported data
4. Confirmation
5. Done
Please correct the failed property assignments and make any further adjustments if required
Click to select all rows in this table
Ethnicity
Gender
Date Of Birth
Age (Years) (years)
Body Weight
03-119 Invalid: not defin not defin 53.0 85.2
04-145 Invalid: not defin not defin 21.0 104.4
05-115 Invalid: not defin not defin 25.0 85.7
06-130 Invalid: not defin not defin 57.0 92.4
07-110 Invalid: not defin not defin 58.0 97.7
08-133 Invalid: not defin not defin 58.0 90.0
09-138 Invalid: not defin not defin 19.0 105.2
10-117 Invalid: not defin not defin 20.0 94.6
11-146 Invalid: not defin not defin 42.0 100.5
12-111 Invalid: not defin not defin 35.0 102.5
13-129 Invalid: not defin not defin 53.0 85.8
14-113 Invalid: not defin not defin 50.0 82.6
15-142 Invalid: not defin not defin 41.0 103.5
16-114 Invalid: not defin not defin 23.0 86.6
17-104 Invalid: not defin not defin 56.0 90.6
18-144 Invalid: not defin not defin 60.0 81.1
19-140 Invalid: not defin not defin 40.0 92.3

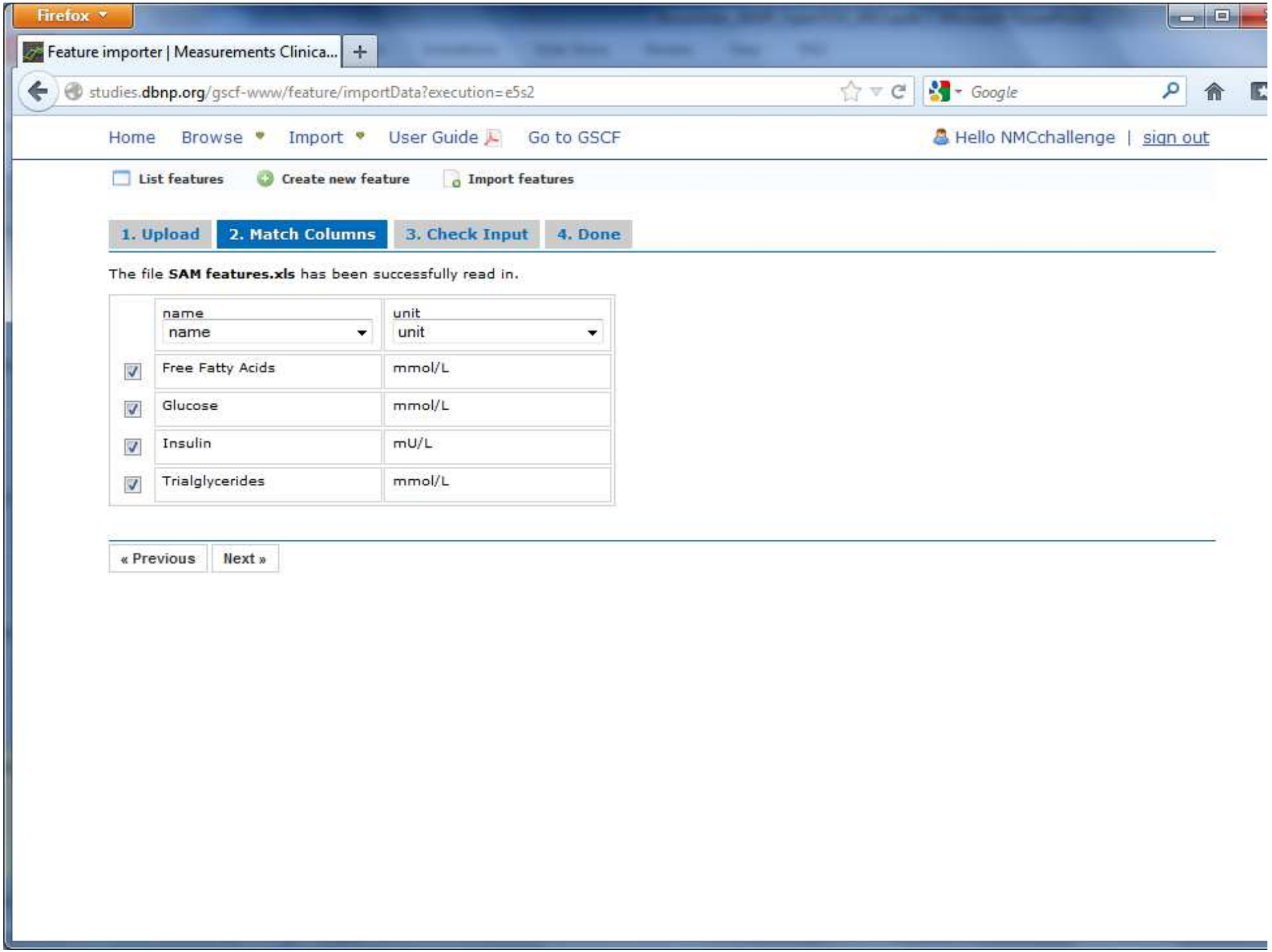

Firefox
Phenotype Database
studies.dbnp.org/gscf-www/gdtImporter/pages?execution=e6s1
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Excel importer: page 3
1. Import file
2. Assign properties
3. Check imported data
4. Confirmation
5. Done
Please correct the failed property assignments and make any further adjustments if required
Name
Species
Ethnicity
Gender
Date Of Birth
Age (Years) (years)
Body Weight
02-106
Homo sa
not defin
54.0
91.2
03-119
Homo sapiens
Mus musculus
Rattus norvegicus
Invalid:
add more...
not defin
53.0
85.2
04-145
21.0
104.4
05-115
25.0
85.7
06-130
57.0
92.4
07-110
58.0
97.7
08-133
58.0
90.0
09-138
19.0
105.2
10-117
20.0
94.6
11-146
42.0
100.5
12-111
35.0
102.5
13-129
53.0
85.8
14-113
50.0
82.6
15-142
41.0
103.5
16-114
23.0
86.6
17-104
56.0
90.6
18-144
60.0
81.1
19-140
40.0
92.3

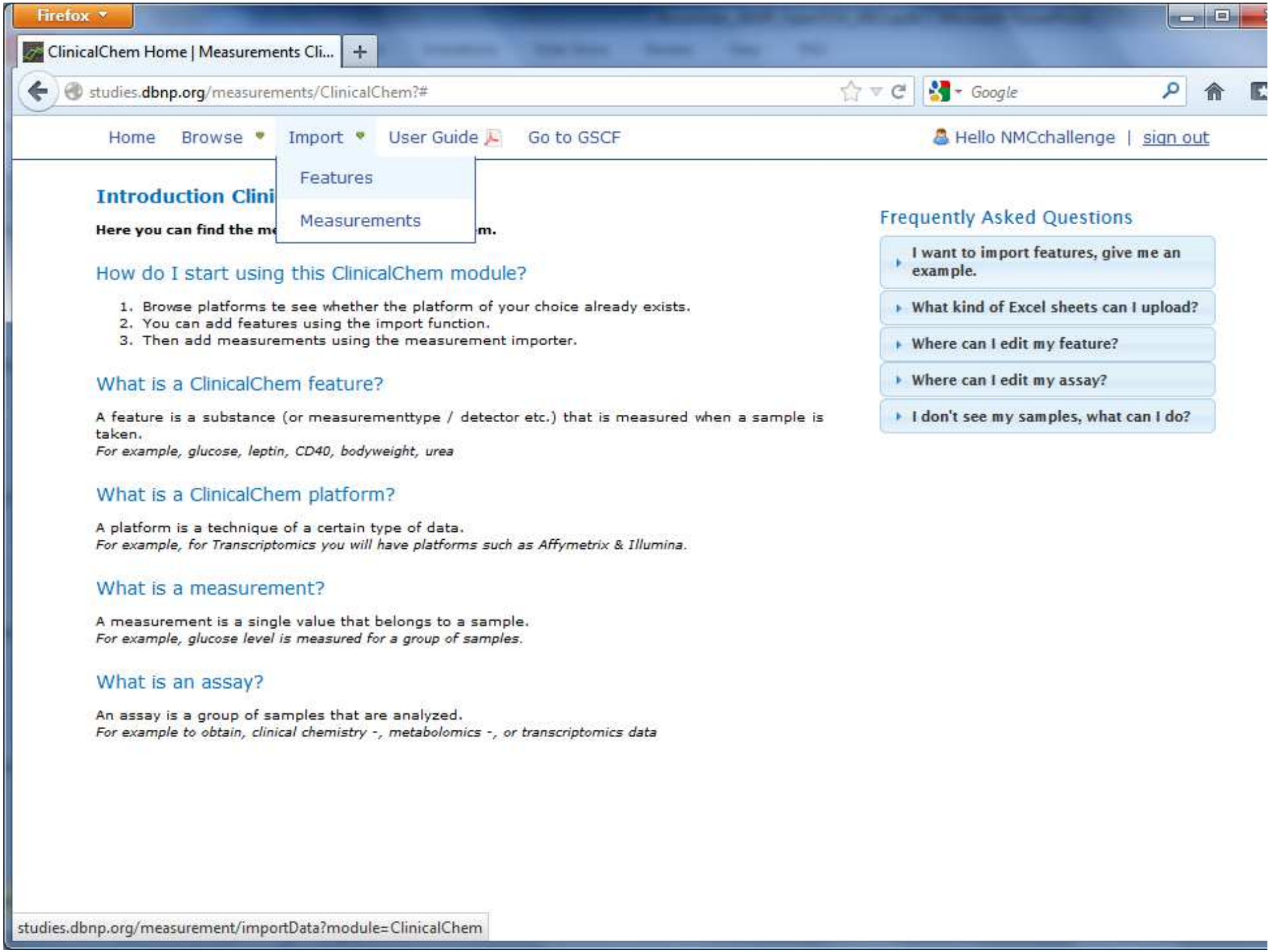

Firefox
Phenotype Database
studies.dbnp.org/?#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
qPCR
Questionnaire
Metabolomics
Microbiome
ClinicalChem
Physiology
Epigenomic
DNA_damage
Quantification_of_Imagi
Genetic_Variation
Whole_Genome_Sequen
Transcriptomics
Proteomics
Introduction
Phenotype Database is an application that can store any biological study. It contains templates which makes it possible to customize.
In order to allow flexibility to capture all information you require within a study, and to make it possible to compare studies or study data, the system uses customizable templates and ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
Usage Statistics
42 Studies
Read only : 0 studies
Readable & writable : 8 s
Users, studies and templates
Click and drag in the plot area to zoom in
25
20
studies.dbnp.org/measurements/ClinicalChem


Firefox
ClinicalChem Home | Measurements Cli...
studies.dbnp.org/measurements/ClinicalChem
Google
Home
Browse
Import
User Guide
Go to GSCF
Hello NMCchallenge | sign out
Introduction ClinicalChem
Here you can find the measurements for ClinicalChem.
How do I start using this ClinicalChem module?
1. Browse platforms te see whether the platform of your choice already exists.
2. You can add features using the import function.
3. Then add measurements using the measurement importer.
What is a ClinicalChem feature?
A feature is a substance (or measurementtype / detector etc.) that is measured when a sample is taken.
For example, glucose, leptin, CD40, bodyweight, urea
What is a ClinicalChem platform?
A platform is a technique of a certain type of data.
For example, for Transcriptomics you will have platforms such as Affymetrix & Illumina.
What is a measurement?
A measurement is a single value that belongs to a sample.
For example, glucose level is measured for a group of samples.
What is an assay?
An assay is a group of samples that are analyzed.
For example to obtain, clinical chemistry -, metabolomics -, or transcriptomics data
Frequently Asked Questions
I want to import features, give me an example.
What kind of Excel sheets can I upload?
Where can I edit my feature?
Where can I edit my assay?
I don't see my samples, what can I do?


Firefox
ClinicalChem Home | Measurements Cli...
studies.dbnp.org/measurements/ClinicalChem?#
Google
Home
Browse
Import
User Guide
Go to GSCF
Hello NMCchallenge | sign out
Features
Measurements
Introduction Clini
Here you can find the me m.
How do I start using this ClinicalChem module?
1. Browse platforms te see whether the platform of your choice already exists.
2. You can add features using the import function.
3. Then add measurements using the measurement importer.
What is a ClinicalChem feature?
A feature is a substance (or measurementtype / detector etc.) that is measured when a sample is taken.
For example, glucose, leptin, CD40, bodyweight, urea
What is a ClinicalChem platform?
A platform is a technique of a certain type of data.
For example, for Transcriptomics you will have platforms such as Affymetrix & Illumina.
What is a measurement?
A measurement is a single value that belongs to a sample.
For example, glucose level is measured for a group of samples.
What is an assay?
An assay is a group of samples that are analyzed.
For example to obtain, clinical chemistry -, metabolomics -, or transcriptomics data
Frequently Asked Questions
I want to import features, give me an example.
What kind of Excel sheets can I upload?
Where can I edit my feature?
Where can I edit my assay?
I don't see my samples, what can I do?
studies.dbnp.org/feature/importData?module=ClinicalChem

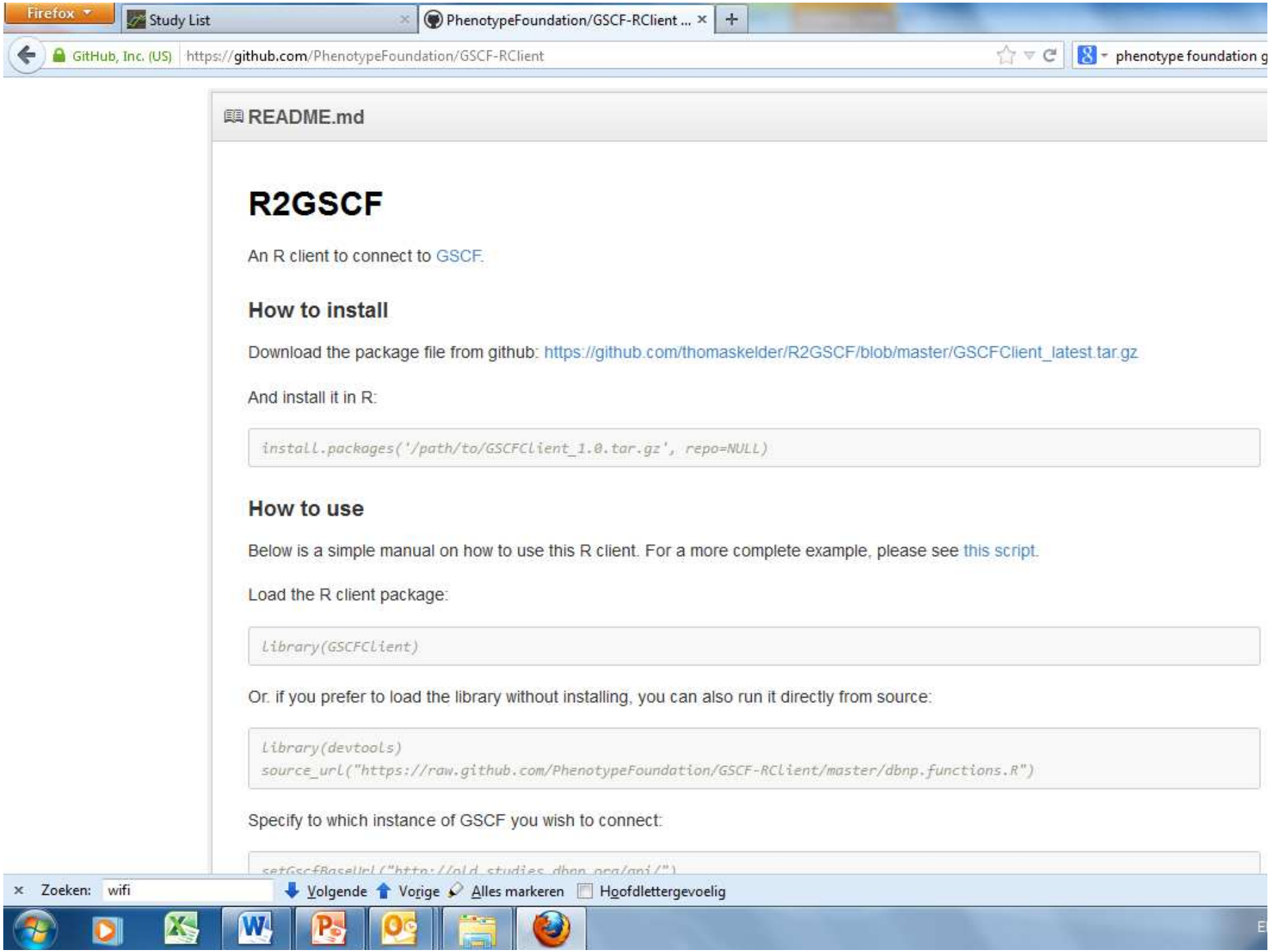

Firefox
Feature importer | Measurements Clinica...
studies.dbnp.org/gscf-www/feature/importData?execution=e5s1&module=ClinicalChem
Google
Home
Browse
Import
User Guide
Go to GSCF
Hello NMCchallenge | sign out
List features
Create new feature
Import features
1. Upload
2. Match Columns
3. Check Input
4. Done
You can import your Excel data to the server by choosing a file from your local harddisk in the form below. Alternatively, you can paste such data in the textfield, which you can find under the 'paste in textfield' option. Please make sure the data has a header row.
Choose your Excel file to import:
\\tsn.tno.nl\data\SV\SV-02
Browse...
or paste in textfield
Choose type of data template (not required):
ClinChemCompound.v000
Select the target platform for these features:
ClinChem.v000
« Previous
Next »


Firefox
Feature importer | Measurements Clinica...
studies.dbnp.org/gscf-www/feature/importData?execution=e5s2
Google
Home
Browse
Import
User Guide
Go to GSCF
Hello NMCchallenge | sign out
List features
Create new feature
Import features
1. Upload
2. Match Columns
3. Check Input
4. Done
The file SAM features.xls has been successfully read in.
name
name
unit
unit
Free Fatty Acids
mmol/L
Glucose
mmol/L
Insulin
mU/L
Trialglycerides
mmol/L
« Previous
Next »


Firefox
ClinicalChem Home | Measurements Cli...
studies.dbnp.org/measurements/ClinicalChem?#
Google
Home
Browse
Import
User Guide
Go to GSCF
Hello NMCchallenge | sign out
Features
Measurements
Introduction Clini
Here you can find the me m.
How do I start using this ClinicalChem module?
1. Browse platforms te see whether the platform of your choice already exists.
2. You can add features using the import function.
3. Then add measurements using the measurement importer.
What is a ClinicalChem feature?
A feature is a substance (or measurementtype / detector etc.) that is measured when a sample is taken.
For example, glucose, leptin, CD40, bodyweight, urea
What is a ClinicalChem platform?
A platform is a technique of a certain type of data.
For example, for Transcriptomics you will have platforms such as Affymetrix & Illumina.
What is a measurement?
A measurement is a single value that belongs to a sample.
For example, glucose level is measured for a group of samples.
What is an assay?
An assay is a group of samples that are analyzed.
For example to obtain, clinical chemistry -, metabolomics -, or transcriptomics data
Frequently Asked Questions
I want to import features, give me an example.
What kind of Excel sheets can I upload?
Where can I edit my feature?
Where can I edit my assay?
I don't see my samples, what can I do?
studies.dbnp.org/measurement/importData?module=ClinicalChem

Output possibilities

- For study comparison API (links to software that can analyse your data, e.g. R)
- Search option
- Excel export
- Visualisation (Pathvisio, simple graphs)


Firefox
Study List
PhenotypeFoundation/GSCF-RClient ...
GitHub, Inc. (US)
https://github.com/PhenotypeFoundation/GSCF-RClient
phenotype foundation g
README.md
R2GSCF
An R client to connect to GSCF.
How to install
Download the package file from github: https://github.com/thomaskelder/R2GSCF/blob/master/GSCFClient_latest.tar.gz
And install it in R:
install.packages('/path/to/GSCFClient_1.0.tar.gz', repo=NULL)
How to use
Below is a simple manual on how to use this R client. For a more complete example, please see this script.
Load the R client package:
library(GSCFClient)
Or. if you prefer to load the library without installing, you can also run it directly from source:
library(devtools)
source_url("https://raw.github.com/PhenotypeFoundation/GSCF-RClient/master/dbnp.functions.R")
Specify to which instance of GSCF you wish to connect:
Zoeken:
wifi
Volgende
Vorige
Alles markeren
Hoofdlettergevoelig

Technical remarks

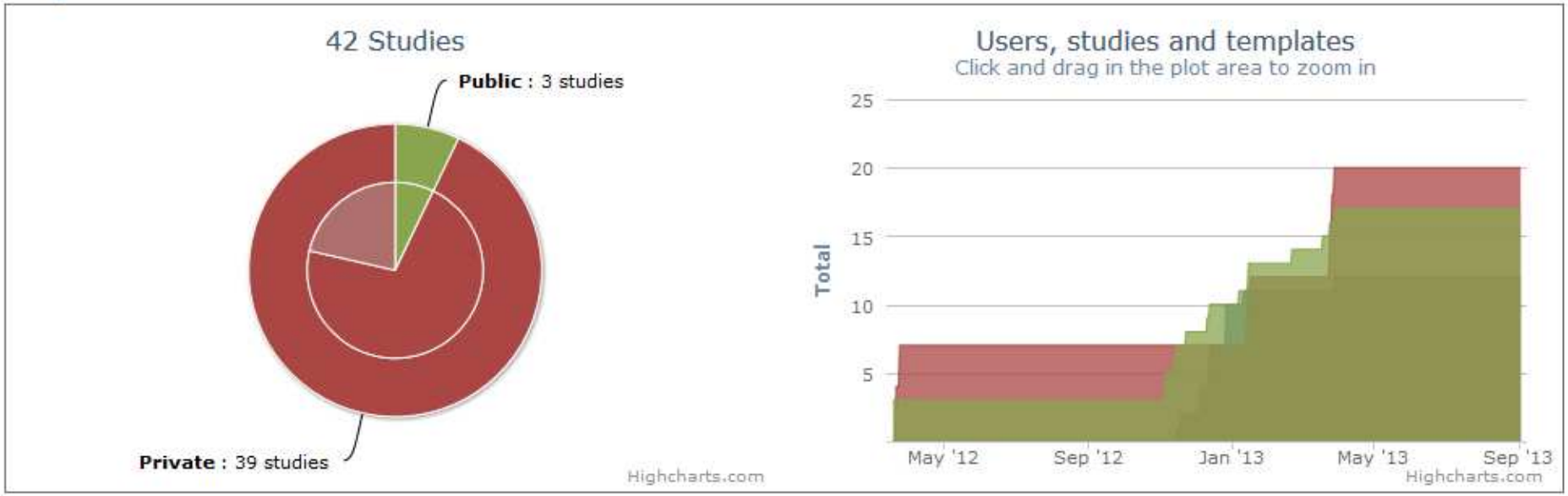
- Code can be found on github: https://github.com/PhenotypeFoundation
- Studies.dbnp.org is the nutritional instance, but can be used by others after request (located at TNO)
- Links to other data sources possible (e.g. arrayexpress)

Phenotype database goals

- Collect, harmonize and distribute data
- Already available: a database for mechanistic intervention studies
- Helpdesk function/ training for new users (NuGO)
- Example on how Phenotype Database works: analysis of the challenge response in several studies

Current status of database

Usage Statistics



Phenotype database goals

- Collect, harmonize and distribute data
- Already available: a database for mechanistic intervention studies
- Helpdesk function/ training for new users (NuGO)
- Example on how Phenotype Database works: analysis of the challenge response in several studies

Pre-training Preparations

- Account generation – creation of username/passwords
- Distribution of Phenotype Database data-uploading template (.xls file) and Quickguide to participants
- Submission of data files (even partial) at least 1 week prior to training (Participant)
- Brief presentation of the current datasets potentially available to share, for discussion purposes during training (Participant)

Training

Format (1 ½ days)

Afternoon

- Introduction to the Phenotype Database software
- Demonstration of the live site (http://studies.dbnp.org)
- Discussion of the datasets to be shared in dbNP (participants)

Next day

- Uploading of files (even partial/dummy) to assess compatibility
- Practical work and recording of potential errors/problems
- Setting of date to share full files with TNO if not already done

Phenotype database goals

- Collect, harmonize and distribute data
- Already available: a database for mechanistic intervention studies
- Helpdesk function/ training for new users (NuGO)
- Example on how Phenotype Database works: analysis of the challenge response in several studies

Huber et al., BMJ 2011:

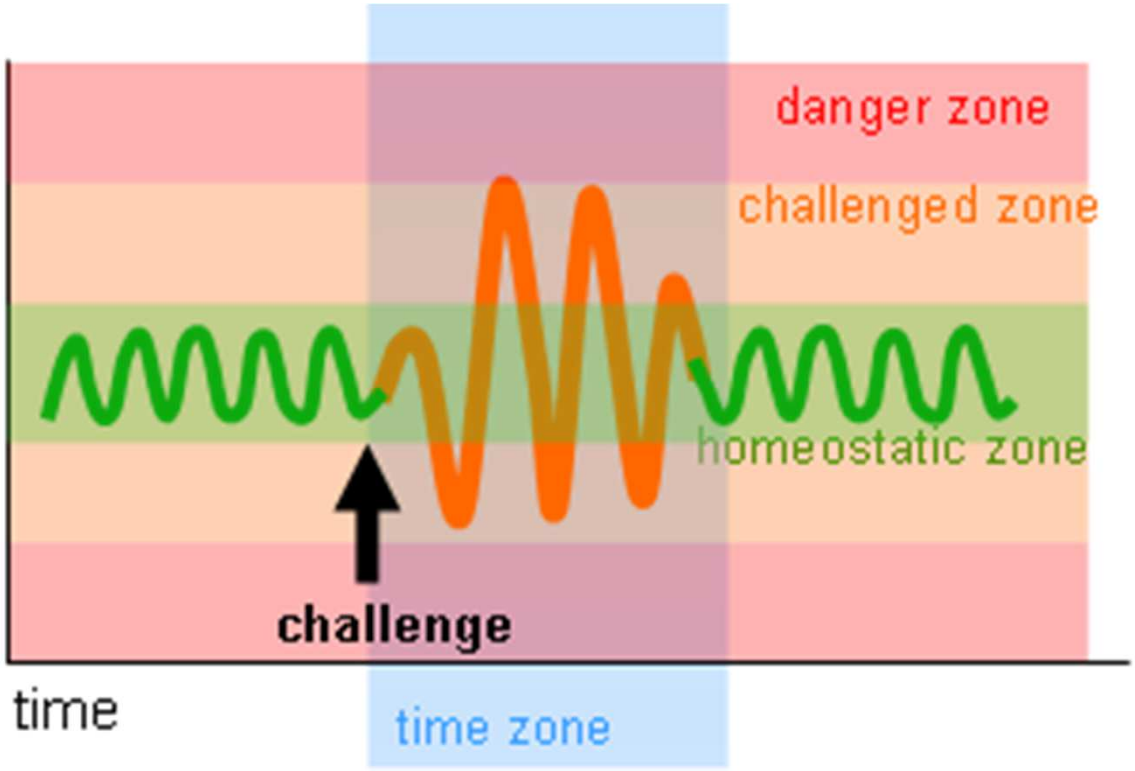
How should we define health?

The WHO definition of health as complete wellbeing is no longer fit for purpose given the rise of chronic disease. **Machteld Huber and colleagues** propose changing the emphasis towards the ability to adapt and self manage in the face of social, physical, and emotional challenges

Machteld Huber *senior researcher*[1], J André Knottnerus *president, Scientific Council for Government Policy* [2], Lawrence Green *editor in chief, Oxford Bibliographies Online—public health*[3], Henriëtte van der Horst *head* [4], Alejandro R Jadad *professor*[5], Daan Kromhout *vice president, Health Council of the Netherlands*[6], Brian Leonard *professor*[7], Kate Lorig *professor*[8], Maria Isabel Loureiro *coordinator for health promotion and protection*[9], Jos W M van der Meer *professor*[10], Paul Schnabel *director* [11], Richard Smith *director*[12], Chris van Weel *head* [13], Henk Smid *director* [14]

The ability to adapt

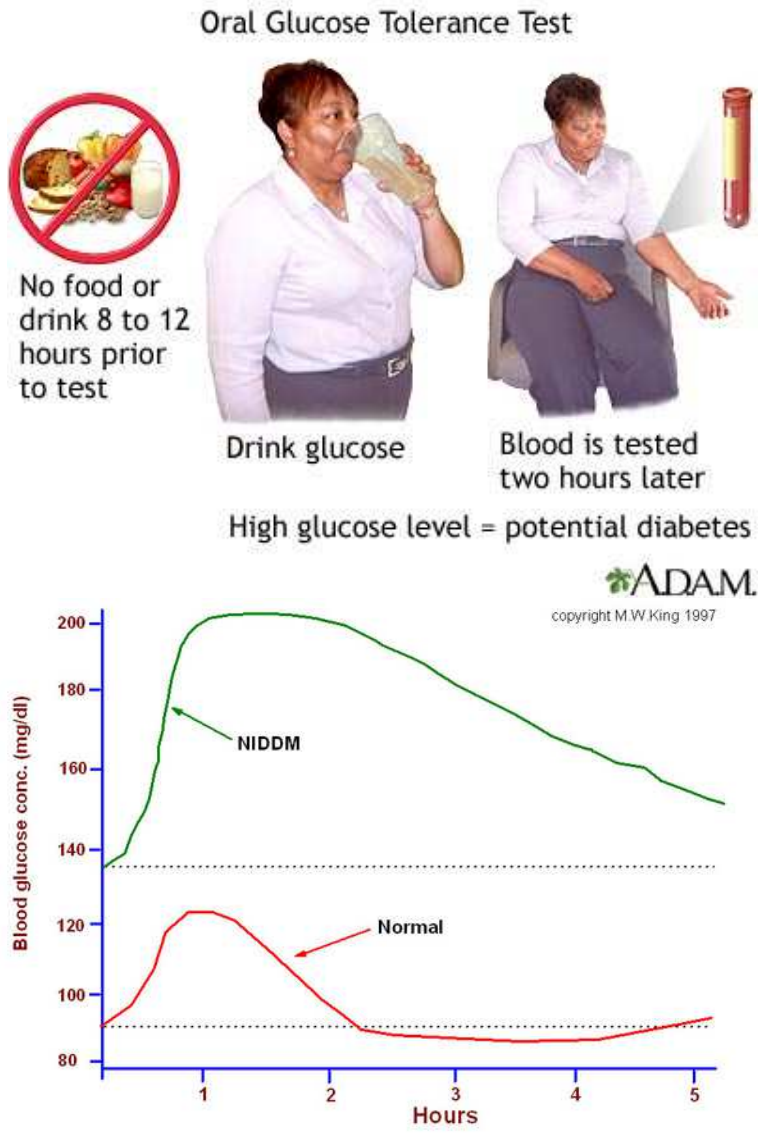
the *adaptive capacity* – the response to stressors



- Quantification of the effect of a treatment/intervention
- Diagnose a disease

Example challenges

Maximal cycling exercise challenge



Treatment/intervention

High fat challenge: 500 ml dairy shake, including 300 ml custard, 150 ml cream cheese and 50 ml whipping Cream (fat 58.7 E%)

0 30 60 120 180 240 minutes 360

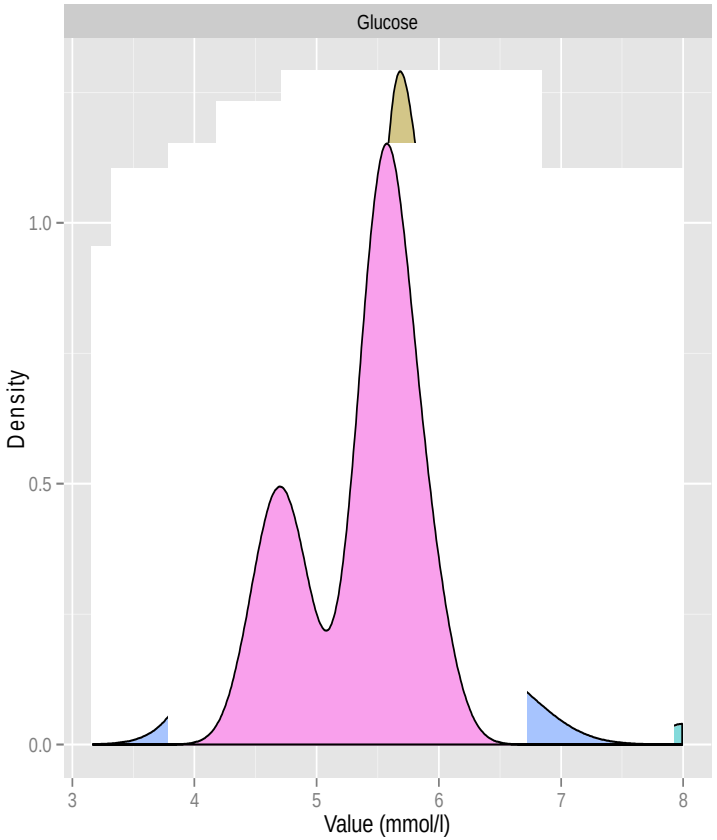
Defining clinical (pre)diabetic subgroups

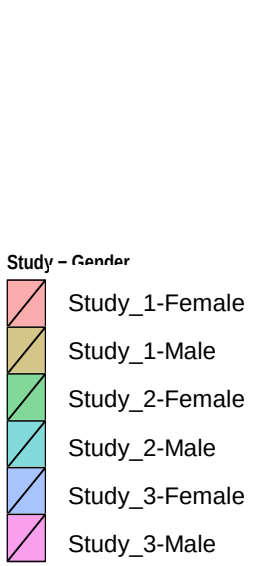
Description	Fasting glucose (mmol/l)	Glucose 120 min after OGTT (mmol/l)
Diabetes (T2DM)	7,0	> 11.0
IGT (Impaired glucose tolerance)	< 5.6 (normal)	7.8 – 11.0
IFG (impaired fasting glucose)	5.6 – 6.9	< 7.8
IGT&IFG	5.6 – 6.9	7.8 – 11.0
Normal	< 5.6	< 7.8

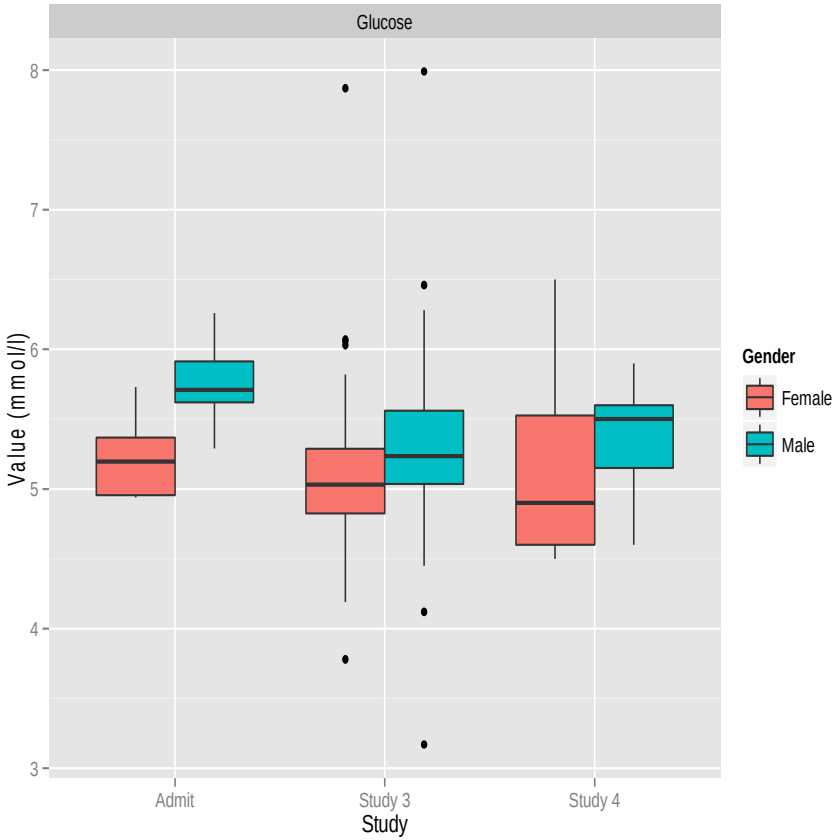
‘The metabolic challenge test knowledge database’ project goal

- To find mechanistic explanations for differences in clinical subgroups
- Providing an integrated study evaluation platform (challenge studies uploaded)
- Demonstrate that other research questions can be answered which could not be answered by a single study

Explorative analysis (glucose): Male and Female







- All subjects, baseline measurements

Conclusion: An overlap in the baseline levels between the studies is observed, a further study comparison can be performed

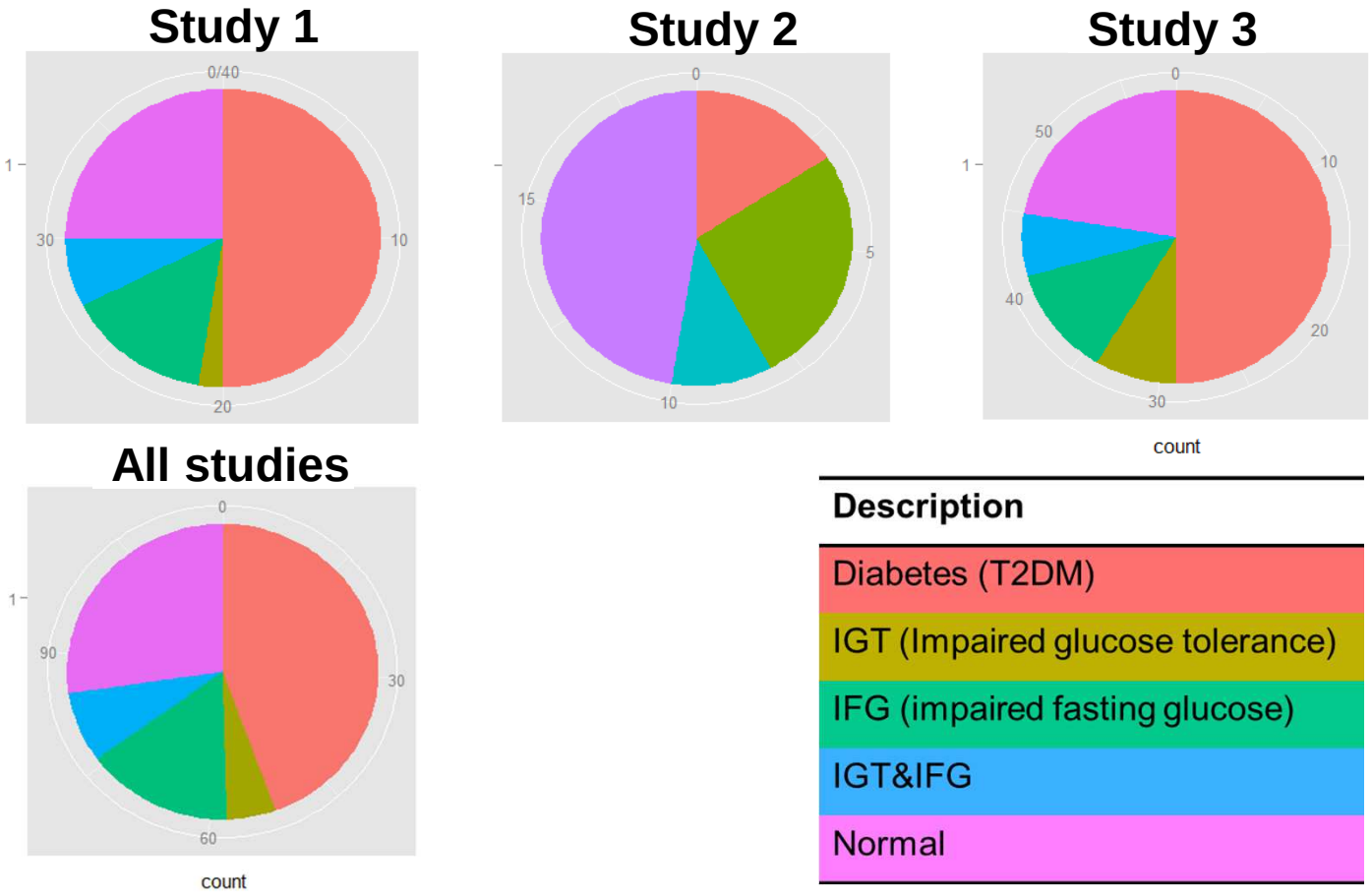
Complex data analysis (linear mix model and looking at covariates): Are the data suitable for virtual cohort?

Base model: value = Study_1 * time0 + healthy + BMI : Normal

		Value	Std.Error	DF	t-value	p-value	
Study_1	study_2	-0.06	0.42	156	-0.14	0.89	
	study_3	-0.77	0.57	156	-1.35	0.18	
Time: 0	Time: 30	2.14	0.60	470	3.57	0.00	**
	Time: 60	1.98	0.54	470	3.67	0.00	**
	Time: 120	-0.19	0.44	470	-0.44	0.66	
Healthy	Diabetes	3.04	0.60	156	5.09	0.00	**
	Prediabetes	1.21	0.21	156	5.71	0.00	**
BMI: Normal	BMI: Morbid obese	1.02	0.49	156	2.07	0.04	*
	BMI: Obese	0.78	0.29	156	2.71	0.01	*
	BMI: Overweight	0.22	0.20	156	1.12	0.26	
	BMI: Underweight	-0.23	0.35	156	-0.67	0.51	
Study1:Time30	Study_2:time30	0.15	0.62	470	0.24	0.81	
	Study_3:time30	1.28	0.72	470	1.77	0.08	#
Study1:Time60	Study_2:time60	-1.08	0.56	470	-1.94	0.05	#
	Study_3:time60	1.64	0.67	470	2.44	0.02	*

The complex data analysis shows that we can find health related differences in response to OGTT (based on the single parameter glucose) by combining studies

Analysis of the distribution of (pre)diabetic subgroups in 3 different studies.



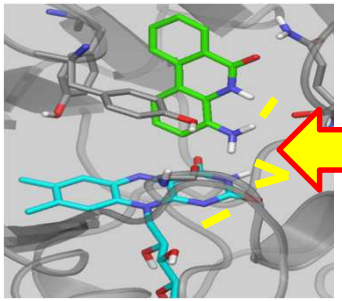
- The 3 studies represent all 5 (pre)diabetic subgroups and therefore can be used to answer our biological question

Upcoming work

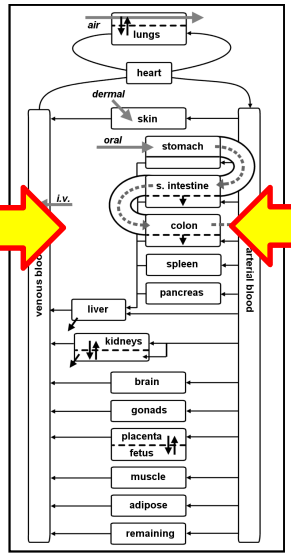
- Meta-analysis of challenges
  - On metabolomics data
  - Inclusion of more studies

DIAMONDS approach

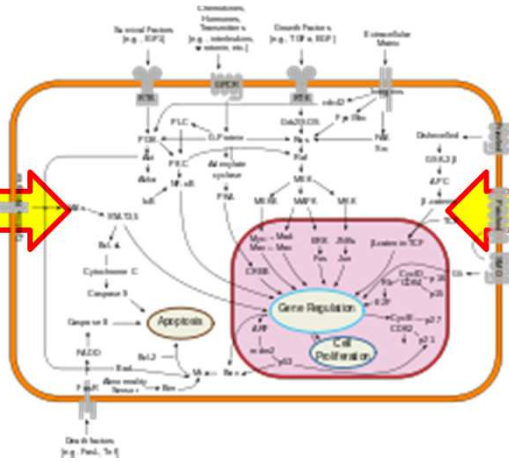
Computational chemistry



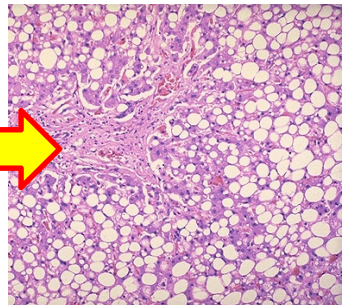
Kinetics data (PBPK)



Omics/Systems Biology/Bioinformatics



Toxicology

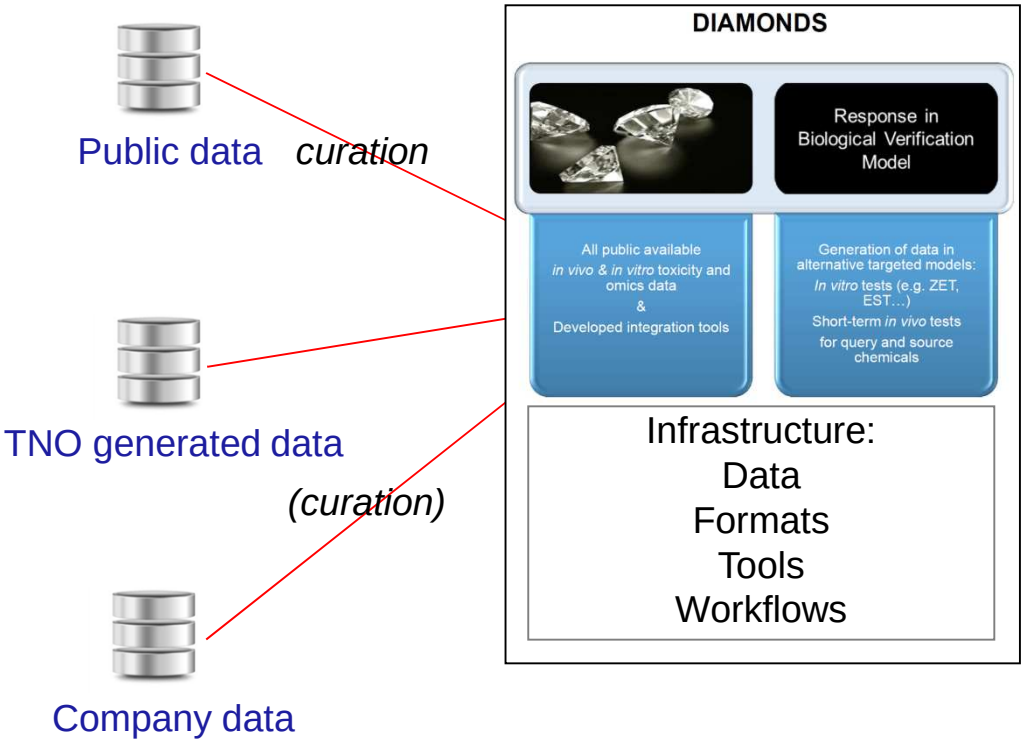


Data **I**nfrastructure for **A**pplying **M**odels **ON** **D**esign and **S**afety

⟺ Data integration


AIM:

Better predict toxicity profile by integrating structural and/or omics information



Predict toxicity Profile

- *grouping*
- *safe design*

Embedding and continuation

- Cosmos (standardization of metabolomics infrastructure): NMC involved
- EURODISH (aiming at establishing the European Nutrition Research Institute)
- NU-AGE
- Nutritech
- Bioclaims
- Usage of studies and data in the Dutch-Irish collaboration on nutritional research
- JPI “Healthy Diet for Healthy Life”

Acknowledgements

Jeroen Wesbeek
Michael van Vliet
Kees van Bochove
Tjeerd Abma
Jahn Saito
Adem Bilican
Ferry Jagers
Robert Ernst
Robert Horlings
Carina de Jong-Rubingh
Ruud Boessen
Margriet Hendriks
Theo Reijmers
Lars Eijssen
Chris Evelo
Ben van Ommen
Suzan Wopereis
Eugene van Someren
Rob Stierum
Miriam Ryan
Lorraine Brennan
…and many others

See also:
www.dbnp.org
test.dbnp.org (user=user password=useR123!)

TNO innovation for life

Nutritional Researchers Cohort Registration

When using the Nutritional Researchers Cohort, you can help nutritional research by sharing your data. The data can be used anonymously in different studies.

You may also choose to use the Nutritional Researchers Cohort personally, without sharing your data. That way, no researchers will have access to your data.

I understand, and want to share data | I only want to use my data personally

http://nrc.dbnp.org

GET INFORMED

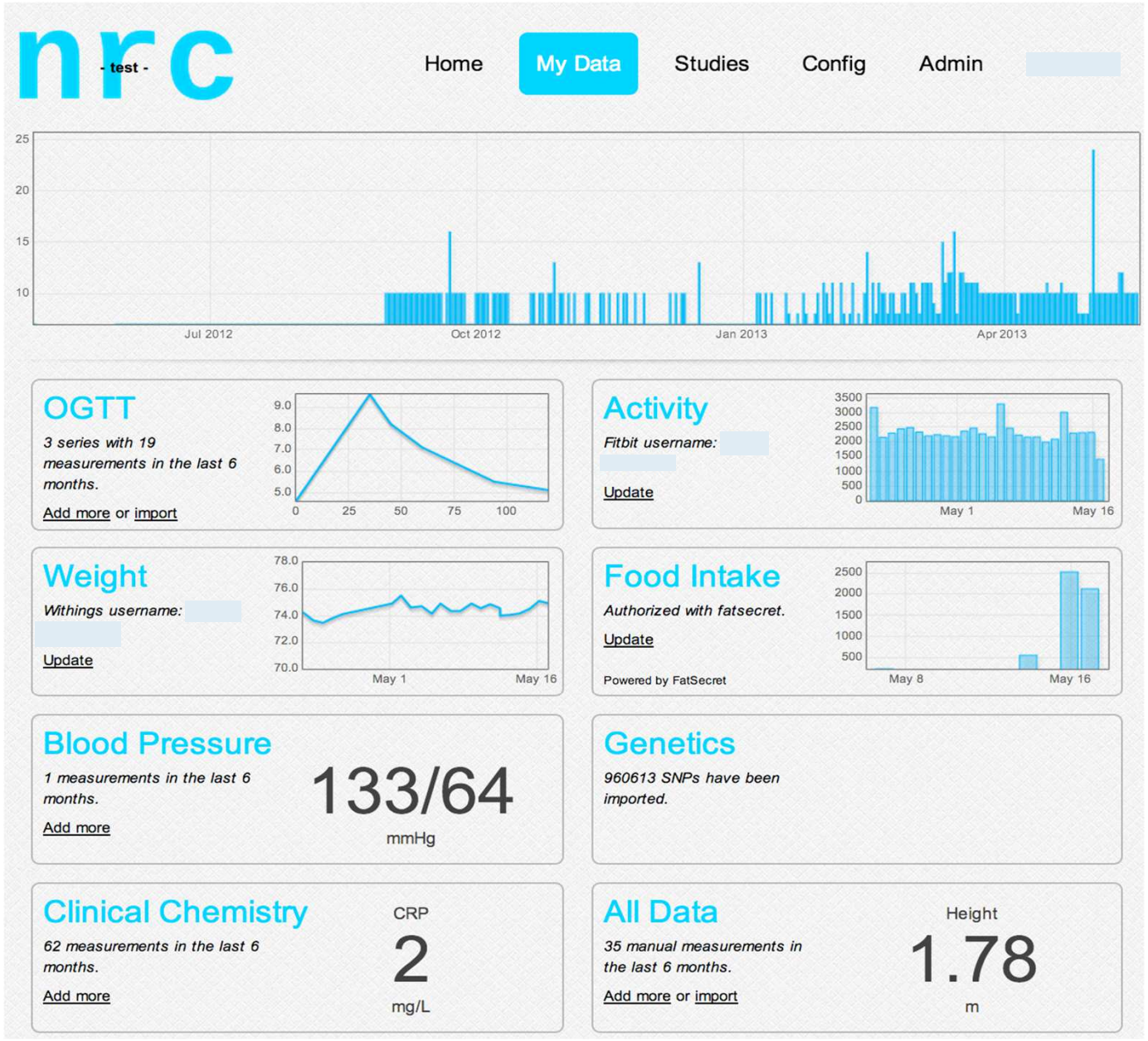
- Welcome
- Introduction
- Researcher Terms of Use
- Grant Rights
- Watch Video
- Checkpoint
- Acknowledge Understanding

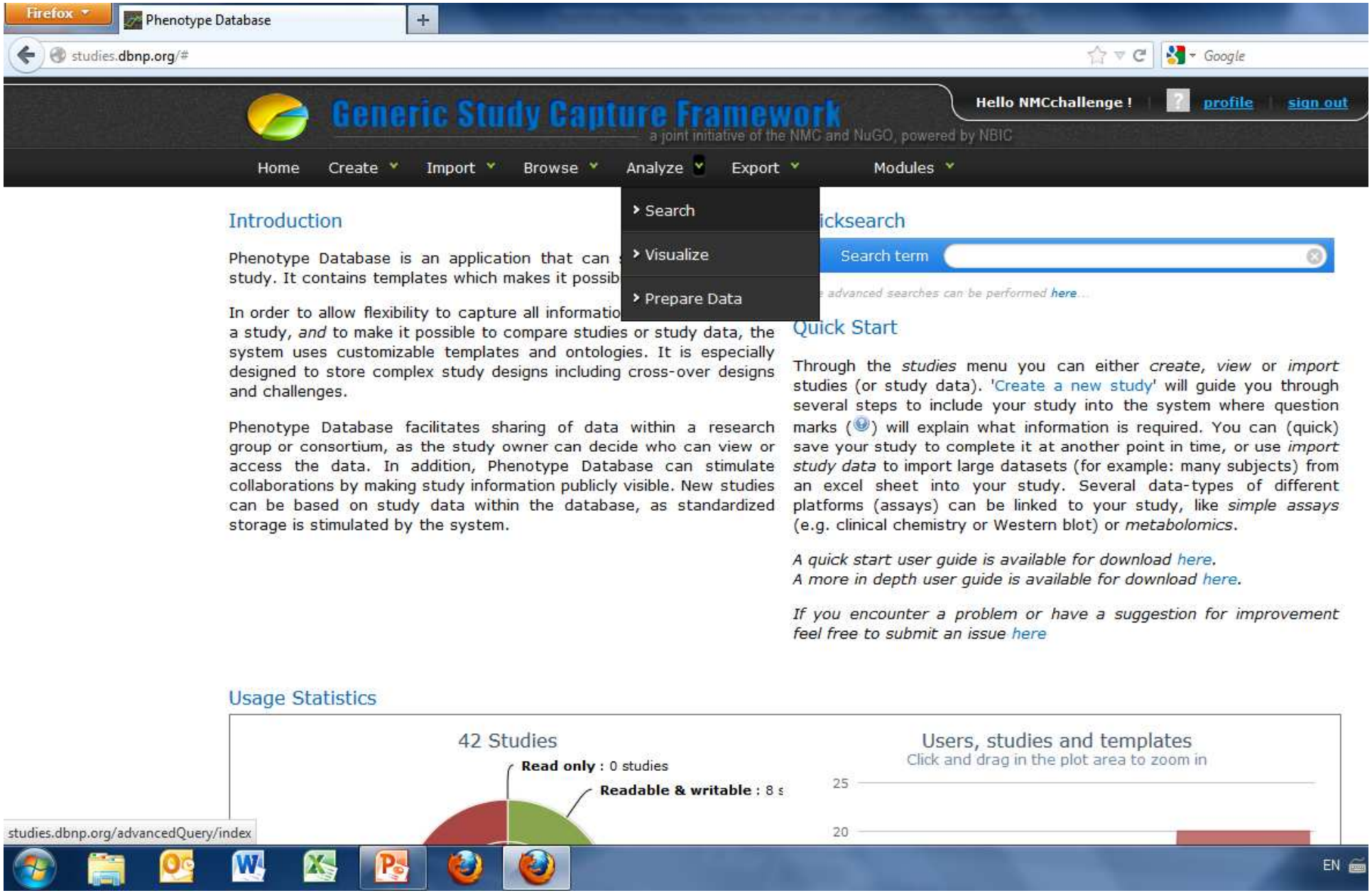
REGISTRATION

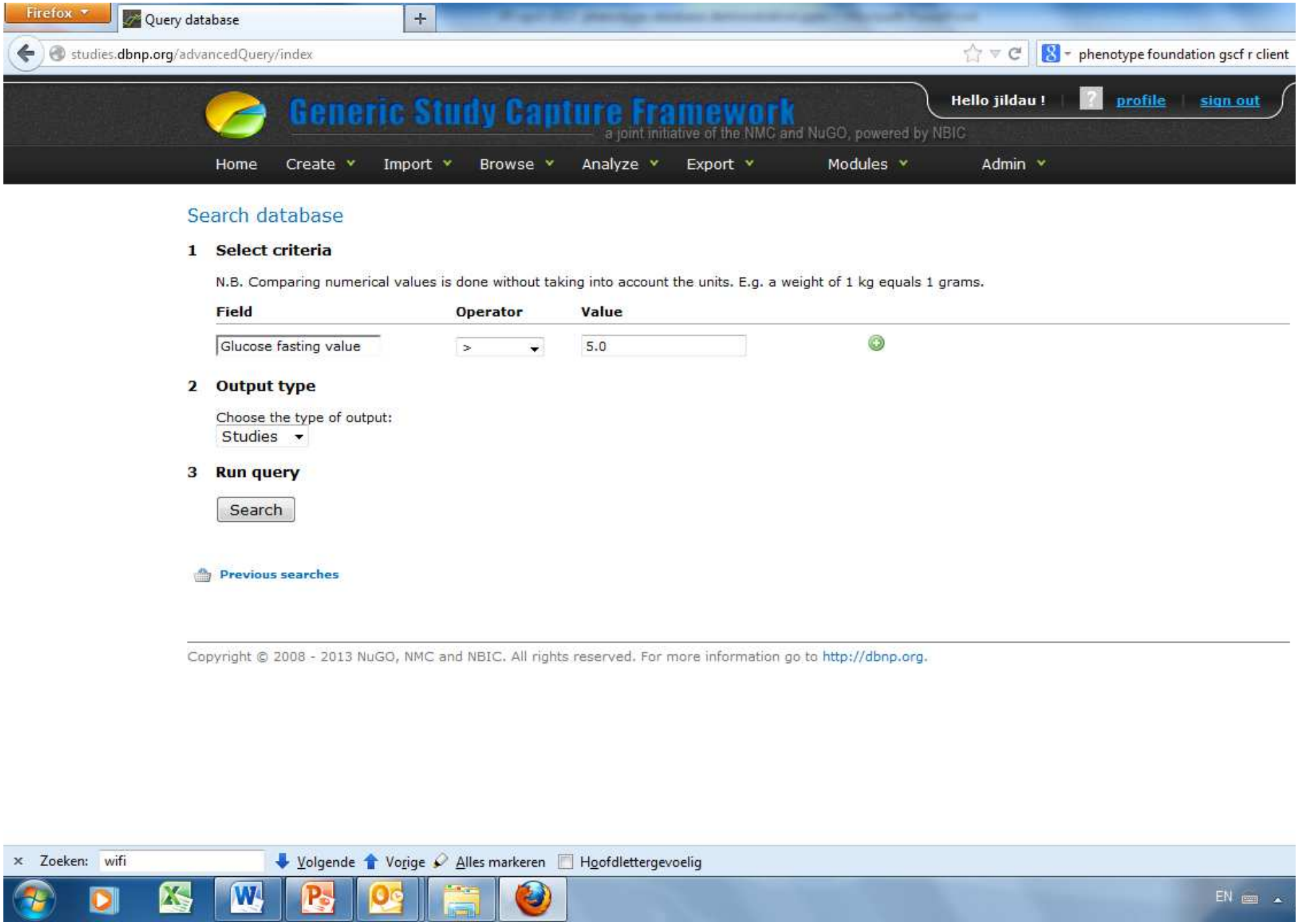
- Consent Form
- User Profile
- Confirm registration

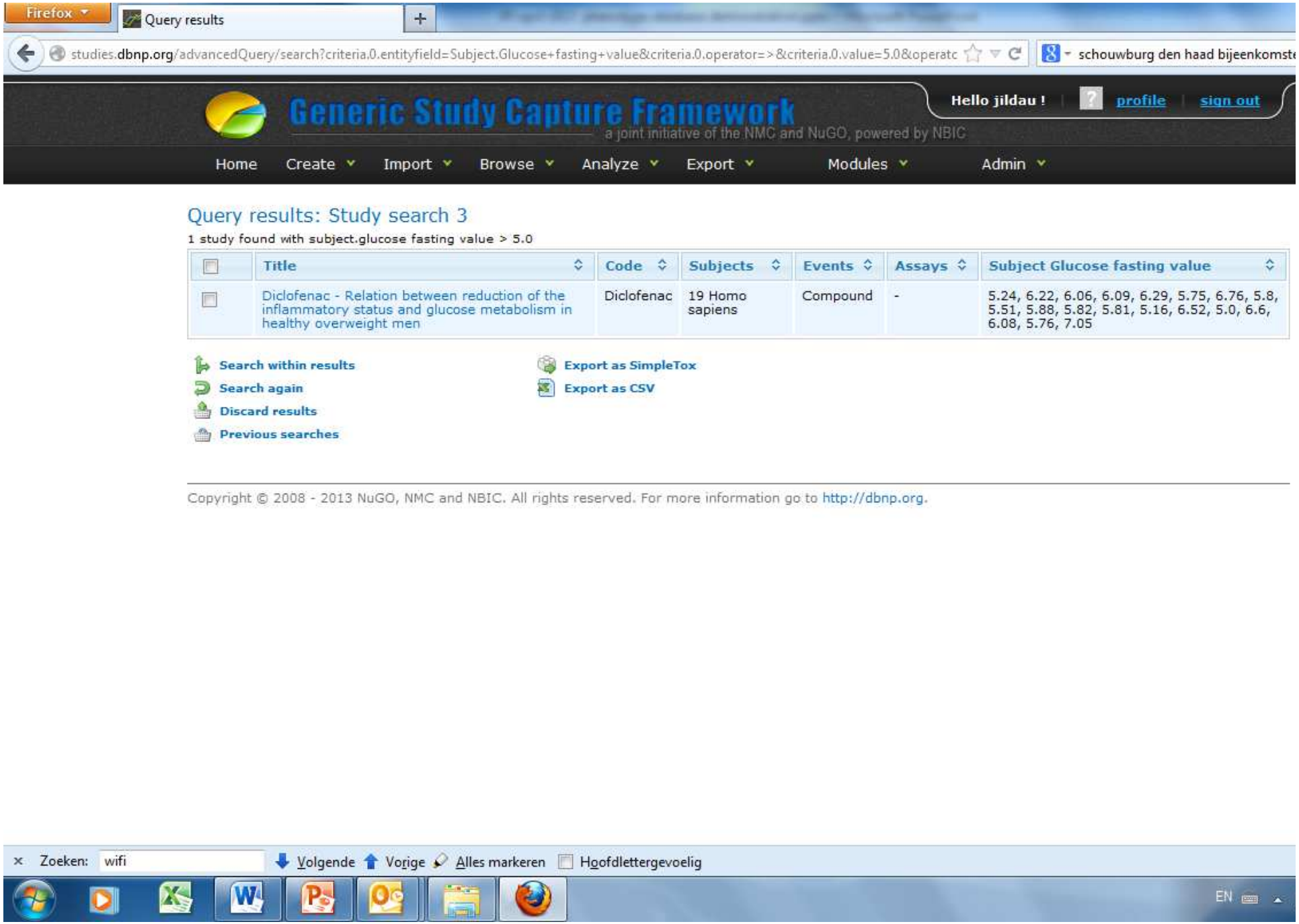
ADD YOUR DATA

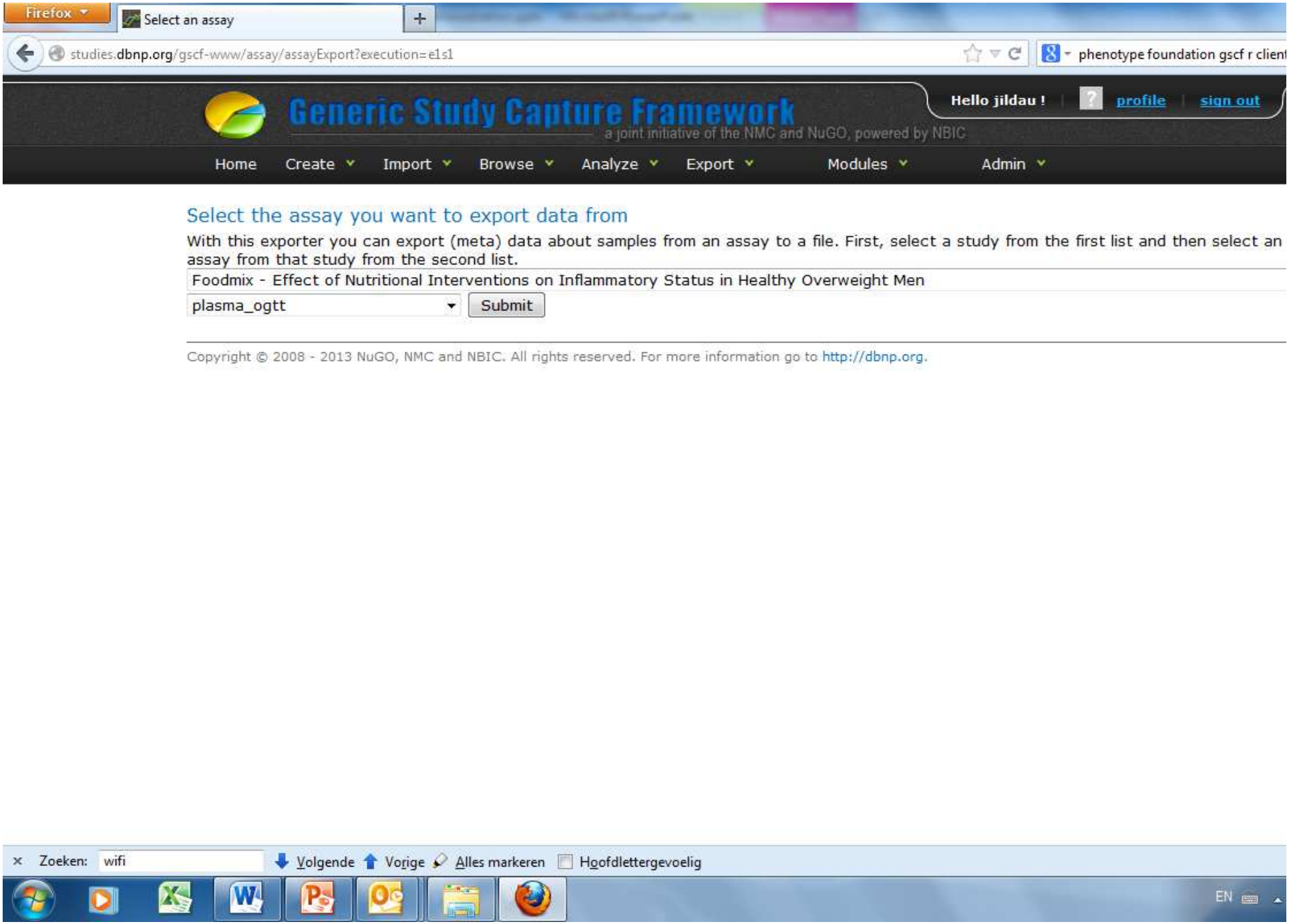
- Sign In
- Upload Data

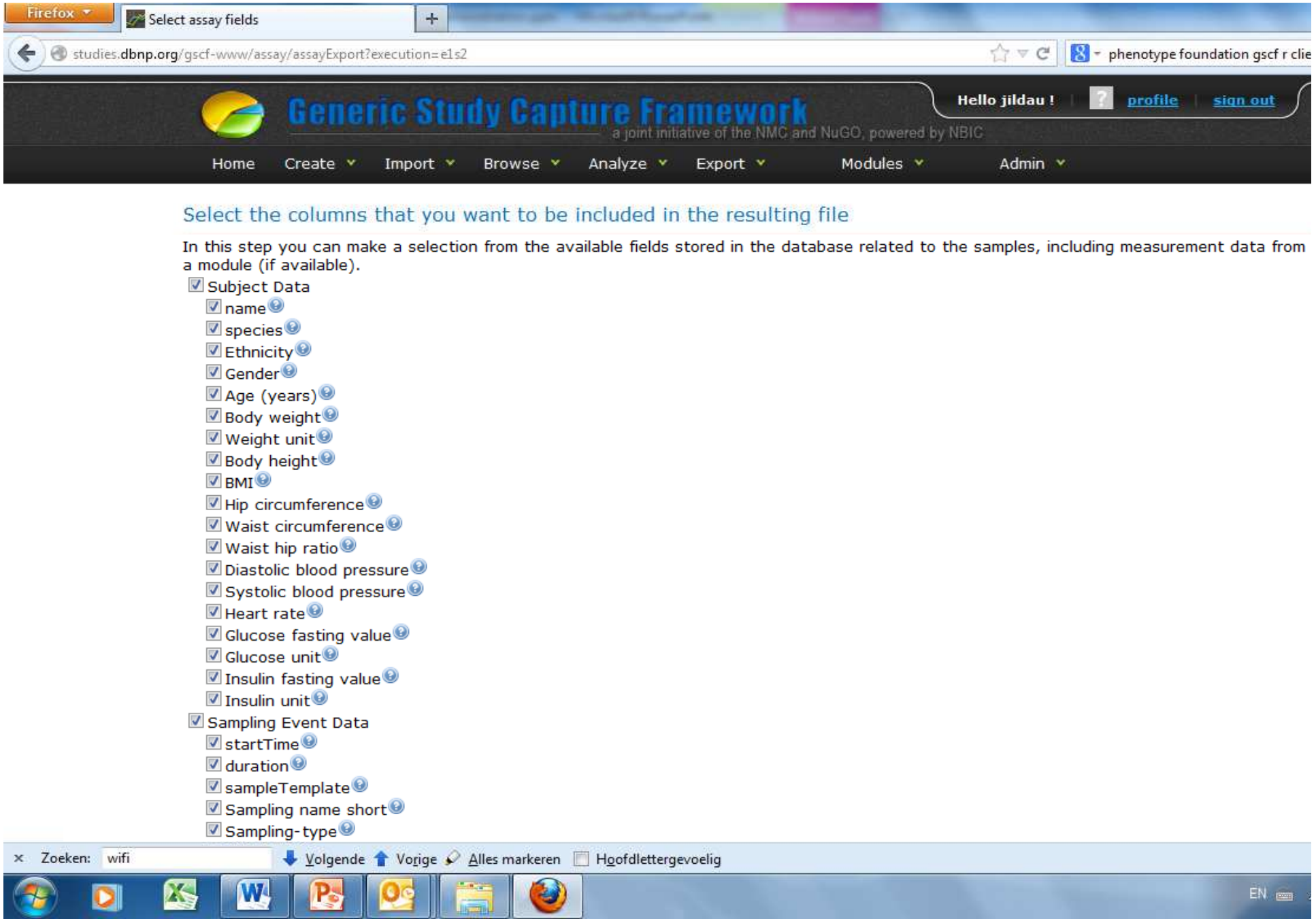

nrc
- test -
Home
My Data
Studies
Config
Admin
25
20
15
10
Jul 2012
Oct 2012
Jan 2013
Apr 2013
OGTT
3 series with 19 measurements in the last 6 months.
Add more or import
9.0
8.0
7.0
6.0
5.0
0
25
50
75
100
Activity
Fitbit username:
Update
3500
3000
2500
2000
1500
1000
500
0
May 1
May 16
Weight
Withings username:
Update
78.0
76.0
74.0
72.0
70.0
May 1
May 16
Food Intake
Authorized with fatsecret.
Update
Powered by FatSecret
2500
2000
1500
1000
500
May 8
May 16
Blood Pressure
1 measurements in the last 6 months.
Add more
133/64
mmHg
Genetics
960613 SNPs have been imported.
Clinical Chemistry
62 measurements in the last 6 months.
Add more
CRP
2
mg/L
All Data
35 manual measurements in the last 6 months.
Add more or import
Height
1.78
m

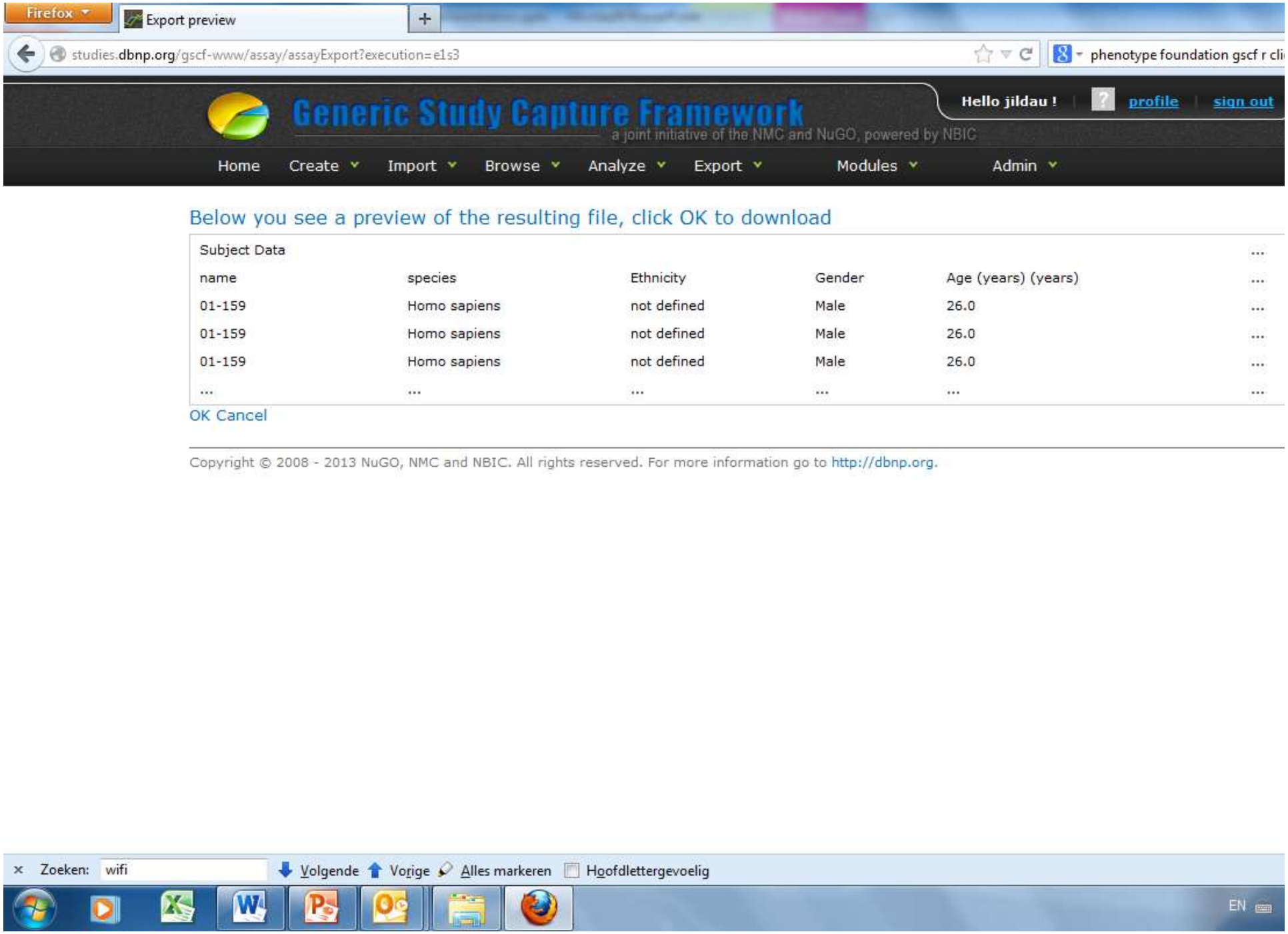

Firefox
Phenotype Database
studies.dbnp.org/#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Search
Visualize
Prepare Data
Introduction
Phenotype Database is an application that can
study. It contains templates which makes it possib
In order to allow flexibility to capture all informatio
a study, and to make it possible to compare studies or study data, the system uses customizable templates and ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
icksearch
Search term
advanced searches can be performed here
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks (?) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Read only : 0 studies
Readable & writable : 8 s
Users, studies and templates
Click and drag in the plot area to zoom in
25
20
studies.dbnp.org/advancedQuery/index
EN

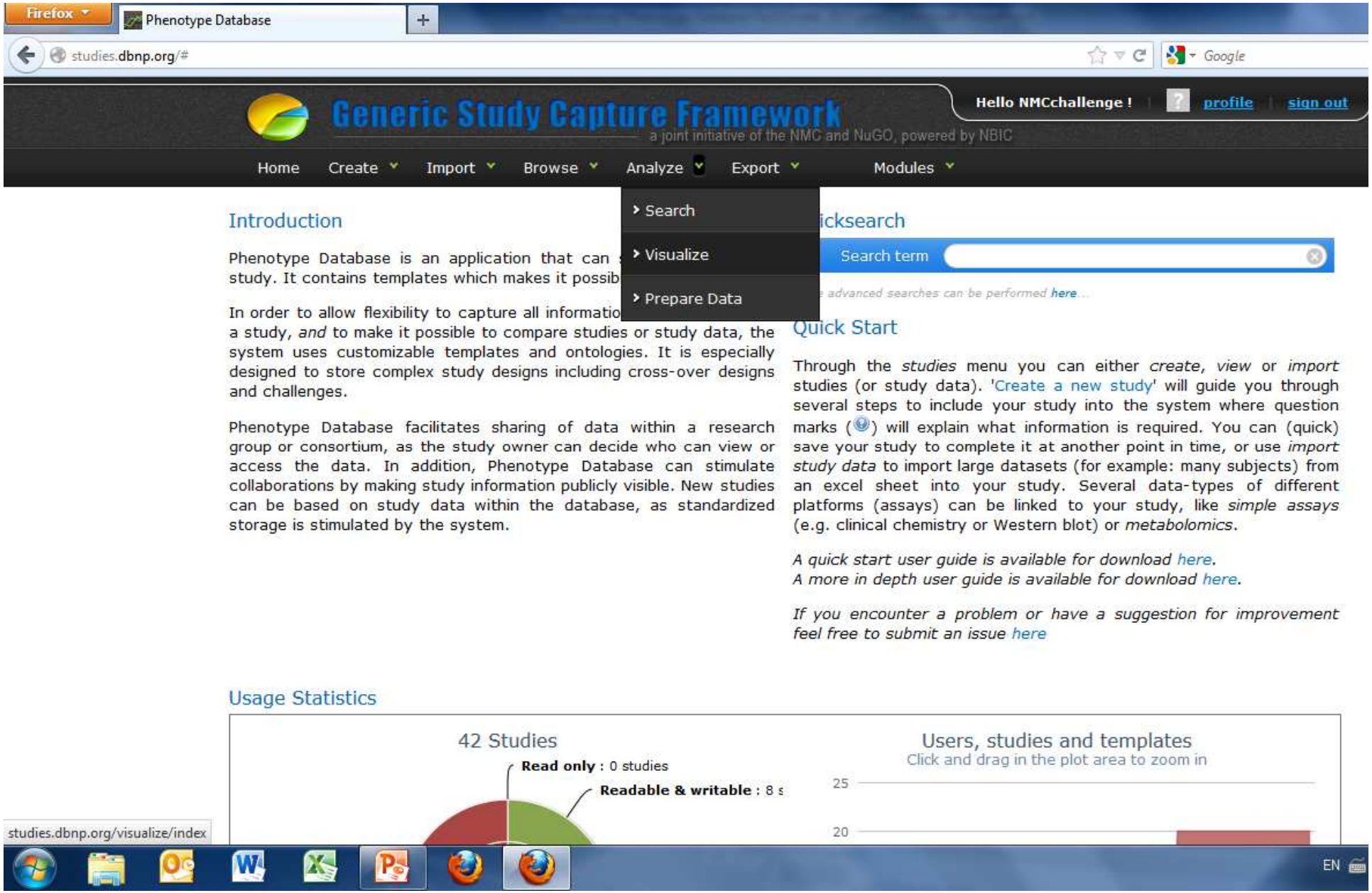

Firefox
Query database
studies.dbnp.org/advancedQuery/index
phenotype foundation gscf r client
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Search database
1 Select criteria
N.B. Comparing numerical values is done without taking into account the units. E.g. a weight of 1 kg equals 1 grams.
Field
Operator
Value
Glucose fasting value
>
5.0
2 Output type
Choose the type of output:
Studies
3 Run query
Search
Previous searches
Copyright © 2008 - 2013 NuGO, NMC and NBIC. All rights reserved. For more information go to http://dbnp.org.
Zoeken:
wifi
Volgende
Vorige
Alles markeren
Hoofdlettergevoelig
EN

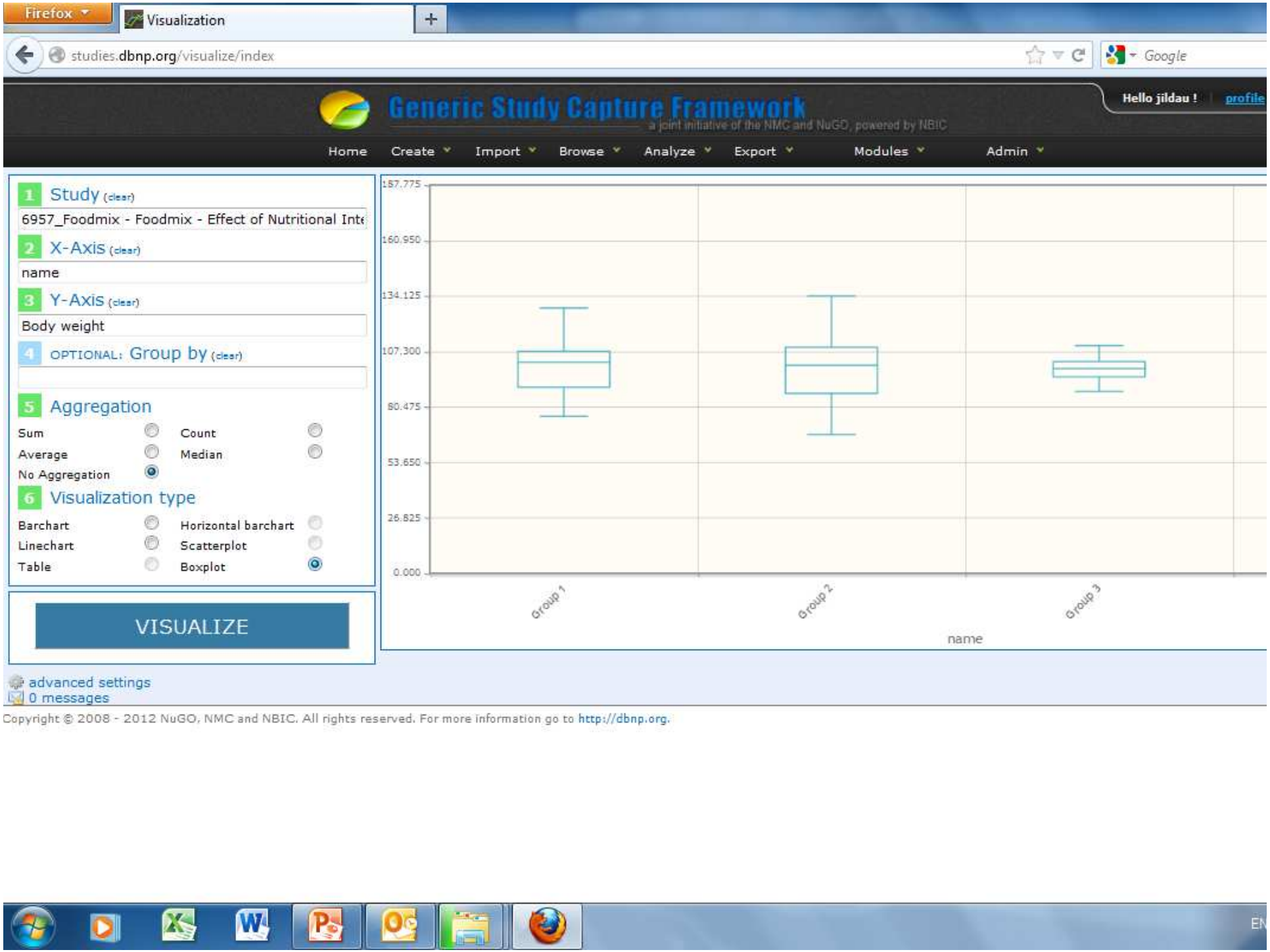

Firefox
Query results
studies.dbnp.org/advancedQuery/search?criteria.0.entityfield=Subject.Glucose+fasting+value&criteria.0.operator=>&criteria.0.value=5.0&operatc
schouwburg den haad bijeenkomste
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Query results: Study search 3
1 study found with subject.glucose fasting value > 5.0
Title
Code
Subjects
Events
Assays
Subject Glucose fasting value
Diclofenac - Relation between reduction of the inflammatory status and glucose metabolism in healthy overweight men
Diclofenac
19 Homo sapiens
Compound
-
5.24, 6.22, 6.06, 6.09, 6.29, 5.75, 6.76, 5.8, 5.51, 5.88, 5.82, 5.81, 5.16, 6.52, 5.0, 6.6, 6.08, 5.76, 7.05
Search within results
Search again
Discard results
Previous searches
Export as SimpleTox
Export as CSV
Copyright © 2008 - 2013 NuGO, NMC and NBIC. All rights reserved. For more information go to http://dbnp.org.
Zoeken:
wifi
Volgende
Vorige
Alles markeren
Hoofdlettergevoelig
EN


Firefox
Select an assay
studies.dbnp.org/gscf-www/assay/assayExport?execution=e1s1
phenotype foundation gscf r client
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Select the assay you want to export data from
With this exporter you can export (meta) data about samples from an assay to a file. First, select a study from the first list and then select an assay from that study from the second list.
Foodmix - Effect of Nutritional Interventions on Inflammatory Status in Healthy Overweight Men
plasma_ogtt
Submit
Copyright © 2008 - 2013 NuGO, NMC and NBIC. All rights reserved. For more information go to http://dbnp.org.
Zoeken:
wifi
Volgende
Vorige
Alles markeren
Hoofdlettergevoelig
EN


Firefox
Select assay fields
studies.dbnp.org/gscf-www/assay/assayExport?execution=e1s2
phenotype foundation gscf r clie
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Select the columns that you want to be included in the resulting file
In this step you can make a selection from the available fields stored in the database related to the samples, including measurement data from a module (if available).
Subject Data
name
species
Ethnicity
Gender
Age (years)
Body weight
Weight unit
Body height
BMI
Hip circumference
Waist circumference
Waist hip ratio
Diastolic blood pressure
Systolic blood pressure
Heart rate
Glucose fasting value
Glucose unit
Insulin fasting value
Insulin unit
Sampling Event Data
startTime
duration
sampleTemplate
Sampling name short
Sampling-type
Zoeken:
wifi
Volgende
Vorige
Alles markeren
Hoofdlettergevoelig
EN


Firefox
Export preview
studies.dbnp.org/gscf-www/assay/assayExport?execution=e1s3
phenotype foundation gscf r cli
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
Below you see a preview of the resulting file, click OK to download
Subject Data
name
species
Ethnicity
Gender
Age (years) (years)
01-159
Homo sapiens
not defined
Male
26.0
01-159
Homo sapiens
not defined
Male
26.0
01-159
Homo sapiens
not defined
Male
26.0
OK Cancel
Copyright © 2008 - 2013 NuGO, NMC and NBIC. All rights reserved. For more information go to http://dbnp.org.
Zoeken:
wifi
Volgende
Vorige
Alles markeren
Hoofdlettergevoelig
EN


Firefox
Phenotype Database
studies.dbnp.org/#
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello NMCchallenge !
profile
sign out
Home
Create
Import
Browse
Analyze
Export
Modules
Search
Visualize
Prepare Data
Introduction
Phenotype Database is an application that can
study. It contains templates which makes it possib
In order to allow flexibility to capture all informatio
a study, and to make it possible to compare studies or study data, the system uses customizable templates and ontologies. It is especially designed to store complex study designs including cross-over designs and challenges.
Phenotype Database facilitates sharing of data within a research group or consortium, as the study owner can decide who can view or access the data. In addition, Phenotype Database can stimulate collaborations by making study information publicly visible. New studies can be based on study data within the database, as standardized storage is stimulated by the system.
icksearch
Search term
advanced searches can be performed here
Quick Start
Through the studies menu you can either create, view or import studies (or study data). 'Create a new study' will guide you through several steps to include your study into the system where question marks (?) will explain what information is required. You can (quick) save your study to complete it at another point in time, or use import study data to import large datasets (for example: many subjects) from an excel sheet into your study. Several data-types of different platforms (assays) can be linked to your study, like simple assays (e.g. clinical chemistry or Western blot) or metabolomics.
A quick start user guide is available for download here.
A more in depth user guide is available for download here.
If you encounter a problem or have a suggestion for improvement feel free to submit an issue here
Usage Statistics
42 Studies
Read only : 0 studies
Readable & writable : 8 s
Users, studies and templates
Click and drag in the plot area to zoom in
25
20
studies.dbnp.org/visualize/index
EN


Firefox
Visualization
studies.dbnp.org/visualize/index
Google
Generic Study Capture Framework
a joint initiative of the NMC and NuGO, powered by NBIC
Hello jildau !
profile
Home
Create
Import
Browse
Analyze
Export
Modules
Admin
1 Study (clear)
6957_Foodmix - Foodmix - Effect of Nutritional Inte
2 X-Axis (clear)
name
3 Y-Axis (clear)
Body weight
4 OPTIONAL: Group by (clear)
5 Aggregation
Sum
Count
Average
Median
No Aggregation
6 Visualization type
Barchart
Horizontal barchart
Linechart
Scatterplot
Table
Boxplot
VISUALIZE
187.775
160.950
134.125
107.300
80.475
53.650
26.825
0.000
Group 1
Group 2
Group 3
name
advanced settings
0 messages
Copyright © 2008 - 2012 NuGO, NMC and NBIC. All rights reserved. For more information go to http://dbnp.org.