

# caArray 050 - Introduction to caArray - Browse and Search caArray Repository

## Introduction to caArray: Browse and Search caArray Repository

**Topic:** caArray Usage

**Release:** Up to caArray 2.x

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## Browse caArray Repository

The browsing feature in caArray is available to all visitors with or without an account. However, without login a user can only see public data. Once logged in, a user can view public data and non-public data for which the user has permissions.

caArray offers four options to browse through experiments in caArray repository.

1. Experiments
2. Organisms
3. Array Providers
4. Unique Array Designs

### Browse caArray Options

Browse caArray		
Location		
(All Locations) ▾		
<a href="#">Experiments</a>	1	<a href="#">18</a>
<a href="#">Organisms</a>	2	<a href="#">3</a>
<a href="#">Array Providers</a>	3	<a href="#">2</a>
<a href="#">Unique Array Designs</a>	4	<a href="#">2</a>
Hybridizations		46
Registered Users		18

## Browsing by the Experiments

Clicking the URL associated with the **Experiments** (first option listed) will bring up a complete list of experiments that are accessible to the users, the users' own experiments plus publicly accessible experiments. (For more information on public visibility, refer to [caArray 043 - Manage the Public Visibility of a caArray Experiment](#), Manage the public visibility of a caArray experiment.

Users may sort the experiment list by **Experiment ID**, **Experiment Title**, **Organism** or **Updated**, by clicking on the column title.

## Experiment List

Browse by: "Experiments"

1							
Experiments (18)							
18 items found, displaying all items.							
Experiment ID	Experiment Title	Assay Type	Primary Contact	Organism	Condition/Disease State	Samples	Updated
<a href="#">li-00007</a>	My first caArray Experiment	Gene Expression	<a href="#">Li</a>	Homo sapiens	Serous Cystadenocarcinoma	<a href="#">1</a>	7/13/2009

## Browsing by the Organisms

Clicking the URL associated with the **Organism** (second option in the list) will bring up a page listing as tabs all organisms that are found among the caArray's available experiments. The count of experiments available within each organism also appears on the tab. Click the tab for each organism to see detailed information on the experiments for that organism.

### Organisms List

Browse by: "Organisms" 2

Bos taurus (1)	Drosophila melanogaster (1)	Homo sapiens (120)	Mus musculus (24)	Rattus norvegicus (1)	Rattus rattus (1)		
One item found.							
Experiment ID	Experiment Title	Assay Type	Primary Contact	Organism	Condition/Disease State	Samples	Updated
<a href="#">user-00061</a>	Genepix Cow with Data 01	Gene Expression	Jser 	Bos taurus		<a href="#">3</a>	12/17/2008

## Browsing by the Array Providers

Both the array providers and corresponding number links open the Browse by **Array Providers** page (third option in the list). An array provider is generally the company or group that manufactured the array design used in the experiment. The page is organized alphabetically by tabs that correspond to different array manufacturer's names, with a list of related experiments. The count of experiments available within each Array Provider also appears on the tab. Click the corresponding tab to view detailed information on the experiments for each Array Provider.

### Array Providers List

Browse by: "Array Providers" 3

Affymetrix (113)	Agilent (9)	GenePix (13)	Illumina (6)	ScanArray (3)	UCSF Spot (4)	
113 items found, displaying 1 to 20. [First/Prev] 1, 2, 3, 4, 5, 6[Next/Last]						
Experiment ID	Experiment Title	Assay Type	Primary Contact	Organism	Condition/Disease State	Samples
abate-00279	Activator protein-1	Gene	abate-shen	Homo	primary prostate cancer with detectable metastatic lesions ,	26

## Browsing by the Array Designs

An array design is a file that explains the design of an array. This includes such information as the array layout and design, its substrate, surface type, attachment type, the array strand type and the coordinates of each gene on the array.

Both the array providers and corresponding number links open the Browse by **Array Designs** page (fourth option in the list). The page is organized alphabetically by tabs that correspond to different array designs, with a list of related experiments. The count of experiments available within each Array Design also appears on the tab. Click the corresponding tab to display detailed information on the experiments for each Array Design.

### Array Designs List

Browse by: "Unique Array Designs" 4

AgilentG4502A_07_2 (1)	GenomeWideSNP_6 (2)	GP_KKWONG UniGem10K (1)	IIG-U133_Plus_2 (19)	IIG-U133A (25)	IIG-U133A_2 (1)		
One item found							
<u>Experiment ID</u>	<u>Experiment Title</u>	<u>Assay Type</u>	<u>Primary Contact</u>	<u>Organism</u>	<u>Condition/Disease State</u>	<u>Samples</u>	<u>Updated</u>
<a href="#">lupal-00211</a>	Gene Expression Analysis of TC...	Gene Expression	Tupal 	Homo sapiens	Serous cystadenocarcinoma	<a href="#">39</a>	3/3/2009

## Search caArray Repository

In caArray, any user can search the repository for the experiments, a feature that can be launched either before login by any user or after login by a registered user. A non-logged in user can view only public data. A logged in user can view public data and non-public data for which the user has permissions.

## Search by a public user

For non logged-in users, the Search caArray section is located on the lower portion of the caArray homepage.

### Browse and Search caArray User Interfaces

Location	
(All Locations)	▼
<a href="#">Experiments</a>	22
<a href="#">Organisms</a>	2
<a href="#">Array Providers</a>	1
<a href="#">Unique Array Designs</a>	5
Hybridizations	59
Registered Users	18

**Search caArray**

Search: ☒ Experiments ☐ Samples

Category: Experiment Title ▼

Keyword:

Location: (All Locations) ▼

## Search by a logged in user

For logged-in users, the Search caArray section is located on the upper right corner of the page.

### Search caArray Interface for Logged in Users

Please Select... ▼

Build CAARRAY\_R2\_3\_0\_1\_GA | Node: NCICB | Welcome, flin | [Logout](#)

## Keyword and category are required for the search

To perform a search, the user must enter a keyword and then pick up a category under either the option **Experiments** or the option **Samples**. An inappropriate selected category will fail to return a valid experiment.

### Search caArray Interface with Experiments and Samples Expanded

**1**

**Search caArray**

Search: ☒ Experiments ☐ Samples

Category: Experiment Title ▼

Keyword:

Location:

Experiment Title  
Experiment Id  
Experiment Description  
Array Provider  
Array Design  
Organism  
Sample Name  
Condition/Disease State  
(All Categories)

**2**

**Search caArray**

Search: ☐ Experiments ☒ Samples

Category: Sample Name ▼

Keyword:

Location:

Sample Name  
Sample External Id  
Condition/Disease State  
Tissue Site  
Organism  
Experiment Title  
Material Type  
Cell Type  
Source Provider  
(Other Characteristics)  
(All Categories)

Once the user finds the information being sought, the user can open/edit/extract the permissible experiment.

## An example of caArray search

The illustration below shows an example of performing a search by the Experiments option and the **Experiment id** category.

Experiments Option with Experiments id Category Selected

Search caArray

Search: ☒ Experiments ☐ Samples

Category: Experiment Id

Keyword: li-00035

Location: (All Locations)

Search

Results for: "li-00035"

Experiments (1)							
One item found.							
Experiment ID	Experiment Title	Assay Type	Primary Contact	Organism	Condition/Disease State	Samples	Updated
<a href="#">li-00035</a>	Oleg	Gene Expression	Li	Homo sapiens		1	10/27/2009

Have a comment?

Please leave your comment in the [caArray End User Forum](#).