Getting Started in caNanoLab - 2021-06-24

This chapter introduces you to the caNanoLab interface and how to navigate. Topics in this chapter include:

Introduction to caNanoLab

Welcome to the cancer Nanotechnology Laboratory (https://cananolab.cancer.gov). caNanoLab is a data sharing portal that supports the international biomedical nanotechnology research community to expedite and validate the use of nanotechnology in biomedicine. caNanoLab provides support to annotate nanomaterials with characterizations resulting from physico-chemical, *in vitro*, and *in vivo* assays and share characterizations and associated nanotechnology protocols in a secure environment.

caNanoLab provides support and functionality for the following features:

- **Protocol management** – Search, submit, and edit nanotechnology protocols leveraged in performing sample characterization assays
- **Sample management** – Search, submit, and edit information on sample formulations including the composition of the sample, results of sample physico-chemical, *in vitro*, *in vivo*, and other characterizations, associated publications, and synthesis information
- **Publication management** – Search, submit, and edit information on nanotechnology publications including peer reviewed articles, reviews, and other types of reports related to the use of nanotechnology in biomedicine

Supported Browsers

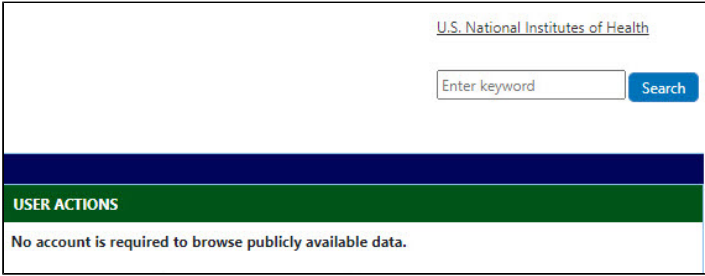Supported web browsers include Google Chrome (103) and Mozilla Firefox (103) in the PC environment.

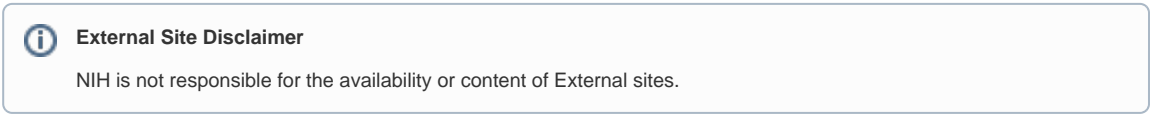*Return to top*

caNanoLab Public Home Page

When you open caNanoLab, the public home page appears. From that page, any user can search publicly-available protocols, samples, and publications in the caNanoLab database.

The following table lists what you can do from caNanoLab's public home page.

I want to...	How do I...
Perform a search across all types of items	Enter search criteria in the Search box to perform a keyword search across protocols, samples, and publications. The system returns only publicly-accessible items if you are not logged in. For details, refer to Performing a caNanoLab Keyword Search.
Access online help	Click **Help** or **Glossary** on any caNanoLab page, or in the **Features** panel, click **FAQ** or **Online Help**.
Open related web sites	Click **NCI** or **External** web sites for related information. ⓘ **External Site Disclaimer** NIH is not responsible for the availability or content of External sites.
Browse public data	In the Browse caNanoLab panel, click **Search Protocols**, **Search Samples**, or **Search Publications**. For details, refer to the following pages: • Managing Protocols in caNanoLab • Managing Samples in caNanoLab • Managing Publications in caNanoLab
Log into caNanoLab	Log in from User Actions. To request a login account, refer to Registering for a caNanoLab Login Account.
Ask a question	Review the **How To** questions, the **Features**, **FAQ** link, or contact caNanoLab-Support@ISB-CGC.org.
Download caNanoLab	Under What's New, click **download**. Technical information is included in the Release Notes.

Review changes to caNanoLab	Under **Keeping up with caNanoLab**, click **What's New with caNanoLab**.

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Logging In

From the public caNanoLab home page, you can log into caNanoLab under User Actions to save samples, protocols, and publications and share them with collaboration groups and other users. If you do not have an account, you need to register for one first.

Registering for a caNanoLab Login Account

If you do not have a caNanoLab login account and want to save items in caNanoLab, contact caNanoLab-Support@ISB-CGC.org. You will be assigned a user role that affects what actions you can perform in caNanoLab and sent a Login ID and password. For details, refer to caNanoLab User Roles on this page.

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Logging Into caNanoLab

To log into caNanoLab

1. From User Actions on the home page, enter your **Login ID**.
2. Enter your caNanoLab **Password**.

   > ⓘ **Note**
   >
   > If you forget your password, contact caNanoLab-Support@ISB-CGC.org.

3. Click **Login**. Refresh the page.

   The bottom left of the caNanoLab home page displays your login and user role information. The **Associated Groups** are your user role(s), for example, *Public* and *Curator,* and any collaboration group(s), for example, *This is a sample*, to which you are assigned.

   For details, refer to:

   - caNanoLab User Roles on this page.
   - The Managing Collaboration Groups page.

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Resetting Your Password

If you forget or need to reset your caNanoLab password, contact caNanoLab-Support@ISB-CGC.org.

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Log Out Warning Due to Inactivity

If caNanoLab is inactive for 25 minutes, a message appears, warning that you will be logged off in five minutes. If you click OK, you remain logged in for another 30 minutes. If you do not click OK within five minutes, you are logged off.

> ⓘ The warning does not appear if you are actively clicking links. If you are only scrolling on a page or moving your mouse, the warning appears after 25 minutes.

caNanoLab User Roles

When you are given caNanoLab login credentials, you will be assigned the Public role by default. Researcher, curator, and admin roles are also available. The following table describes the differences between these user roles.

User Role	Actions and Access
Public	The Public user role is assigned to all caNanoLab users. A logged in Public user can • Search for and view all *publicly-available* samples, protocols, and publications and access any items shared with the user. • Create, update, and share the Public user's *own* samples, protocols, and publications with user(s) and collaboration group(s). > ⓘ **Submit and Review** > To make a sample, protocol, or publication public, a Public user must submit the item for review first.
Researcher (and also Public)	A logged in Researcher can • Search for and view *all* samples, protocols, and publications and access any items shared with the Researcher. • Create, update, and share the Researcher's *own* samples, protocols, and publications with user(s) and collaboration group(s). > ⓘ **Submit and Review** > To make a sample, protocol, or publication public, a Researcher must submit the item for review first.
Curator (and also Public and Researcher)	Once logged in, you can • Search for and have Read-Write-Delete access to all samples, protocols, and publications in caNanoLab. • Annotate a sample. • Create, update, share, and make samples, protocols, and publications publicly-accessible. • Access **Groups** to manage collaboration groups. • Access **Curation** to review items for public access, and perform sample batch data metrics tasks. • Access **Results** to review batch data results.
Admin	Once logged in, you can • Access **Admin** to add and update user accounts. • Perform task that a Public user can do.

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caNanoLab Home Page (After Login)

ⓘ

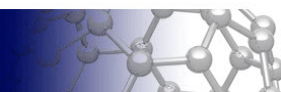Once you log into caNanoLab, the caNanoLab home page opens.

ⓘ **Visibility of options**

When you log in, the options available to you depend on your caNanoLab user role and permissions.

Menu Options

The following table lists and describes each caNanoLab menu.

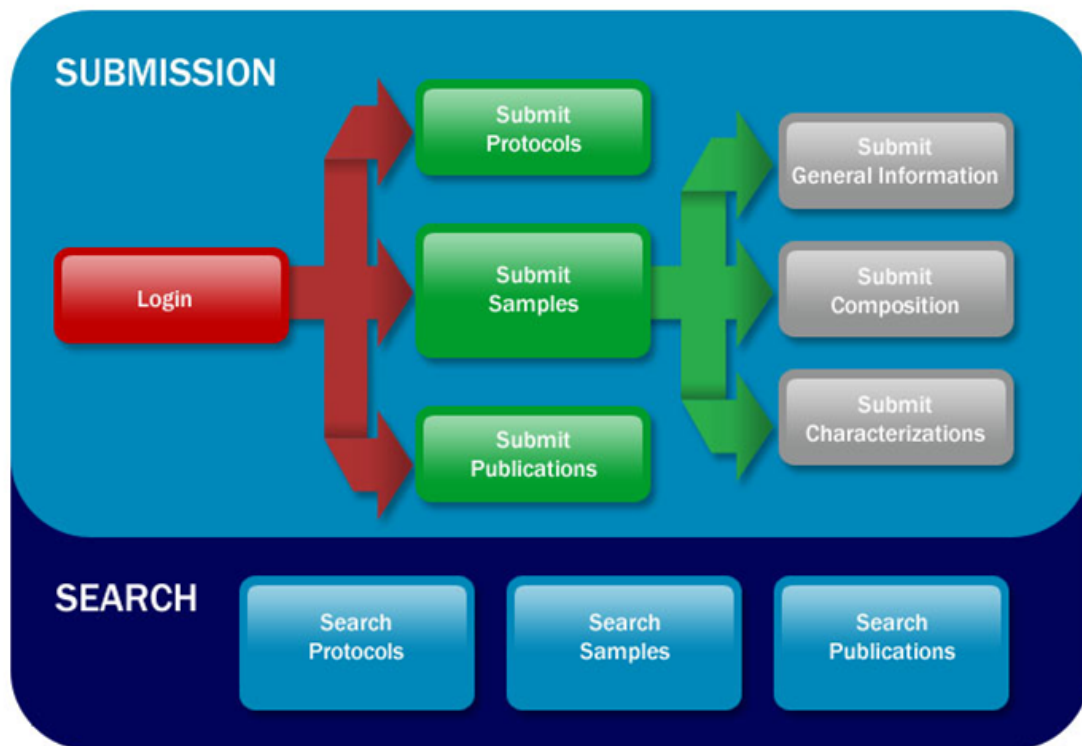| Menu Options	Description
Home	Returns to the home page.
Workflow	Presents a workflow graphic with active links to access caNanoLab functions.
Protocols	Search for existing protocols, create a new protocol, and submit a protocol for review for public access.
Samples	Search for existing samples, create a new sample, and submit a sample for review for public access. When you add a sample, the following options appear in the Navigation Tree: NAVIGATION TREE GENERAL INFO COMPOSITION CHARACTERIZATION PUBLICATION SYNTHESIS For more information, refer to the following pages: • To add annotations and publications to the sample: Managing Sample Composition Annotations • To review or ascribe characterizations to samples: Managing Sample Characterizations • To add publication to a sample: Managing Publications in caNanoLab • To add synthesis information to a sample: Managing Synthesis - 2021-07-12
Publications	Search for sample publications, create a new publication, or submit a publication for review for public access.
Groups	Create and manage collaboration groups which allow researchers to share data among members of the group. • *Curators* can manage all collaboration groups and view a list of samples assigned to each group. • If you do not have the curator role, you can manage only your own collaboration groups.
Curation	*Curator only*: Review items pending public release and generate sample data metrics in a batch.
Results	*Curator only*: Appears after you perform a batch process.
My Workspace	Review the samples, protocols, and publications that you saved or are associated with your log in.
My Favorites	Review the samples, protocols, and publications that you bookmarked for easy access.
Admin	*Admin only*: Add and edit users, and reset user passwords.
Login/Logout	Login or out of caNanoLab.

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Using the Workflow to Get Started

If you are new to caNanoLab or just need a refresher about accessing the right option, click the caNanoLab **Workflow** menu. The Workflow illustrates caNanoLab functionality and the process to follow. Active links are provided for directly navigating to the appropriate function based on your authorization level. We also provide a caNanoLab Data Submission Video and accompanying transcript to assist you in getting started.

> ⓘ **From Submit to Create**
>
> We no longer use the terms "submission" or "submit" when adding protocols, samples, and publications to caNanoLab. The options are now Create Protocols, Create Samples, and Create Publications.

(TBD: Will this diagram in the GUI be updated? I'm guessing it needs to include Synthesis, and it needs to say Creation & Create instead of Submission & Submit throughout, considering the old "no longer use" note above.)

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