



HUB

A COLLABORATORY FOR CANCER
RESEARCH

NCIP Hub: Collaboration Tool for NCI Affiliated Programs and Investigators

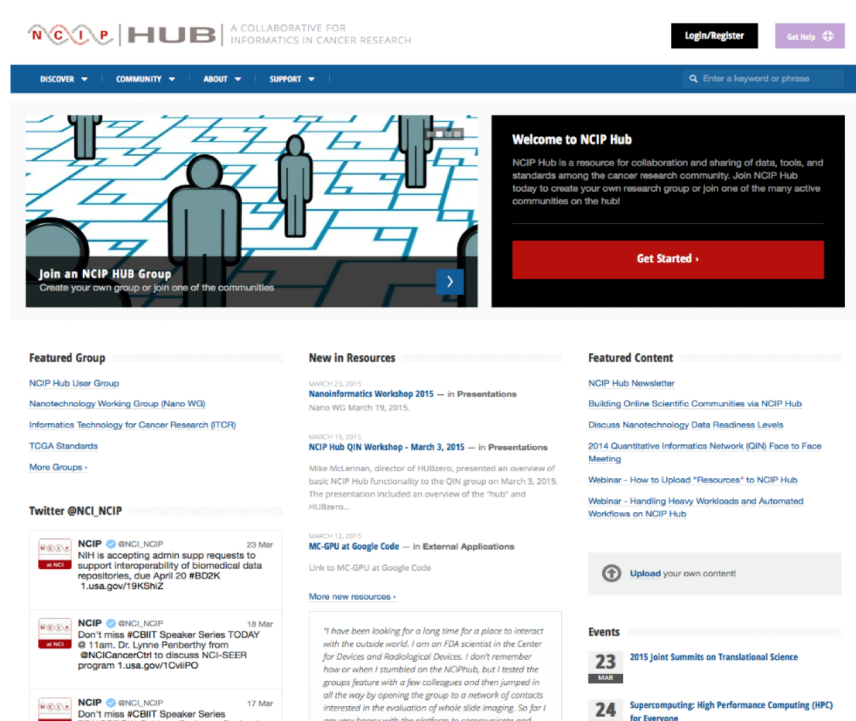
**CRCHD PACHE Hub Presentation
November 19, 2018**

Presenters:

1. Mervi Heiskanen (NCI)
NCIP HUB LEAD

2. Aparna Vinodh (NCI /NetImpact Strategies, Inc.)
NCIP HUB USER LIASION

Introduction to NCIP HUB



❖ Collaboration tool built on the HUBzero platform that enables sharing of data, tools and other resources among the cancer research community.

❖ NCIP Hub is hosted by the Purdue University <https://nciphub.org>.

❖ You can create your own research group and manage projects and collaborations using features including discussion forum, resource catalog, calendar, wiki, newsletter and collections. No IT skills required!

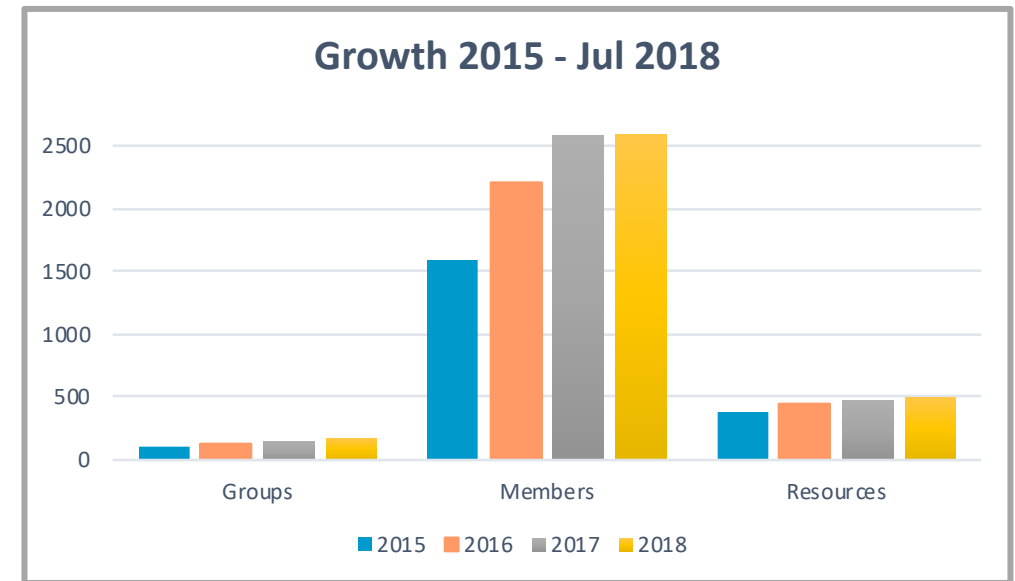
❖ Focus on supporting NCI programs and grantees.

NCIP HUB users and use case

❖ Most common use cases for the NCIP Hub are:

- Sharing program/project information within the cancer research community in general and program participants.
- Support for meetings and workshops: program planning, registration, posting presentations.

❖ Users are program staff and grantees with minimal IT / informatics experience.

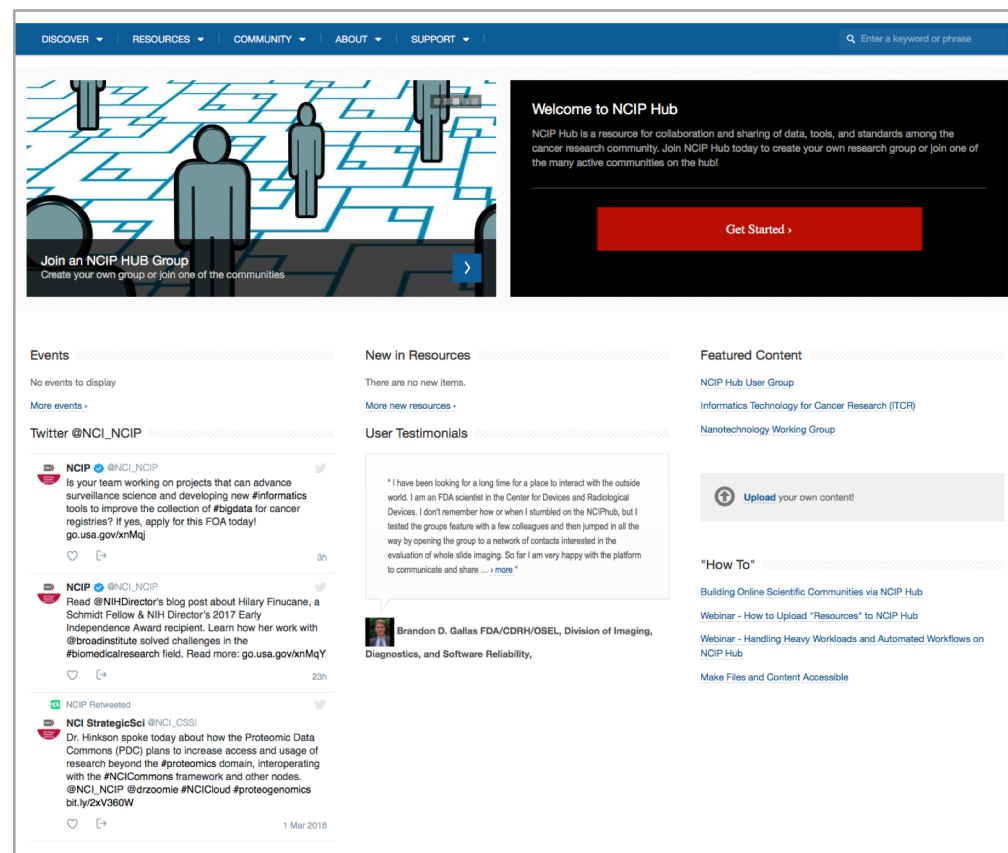


	2015	2016	2017	2018	Avg
Groups	108	132	157	181	
Members	1581	2211	2583	2669	
Resources	390	455	476	507	
Avg Members per Group	15	17	16	15	16
Avg Resources per Member	0.25	0.21	0.18	0.19	0.21

NCIP HUB functionality walk through

Main Features:

1. Groups
2. Projects
3. Resources
4. Forums
5. Wish Lists
6. Calendar



NCIP HUB Groups

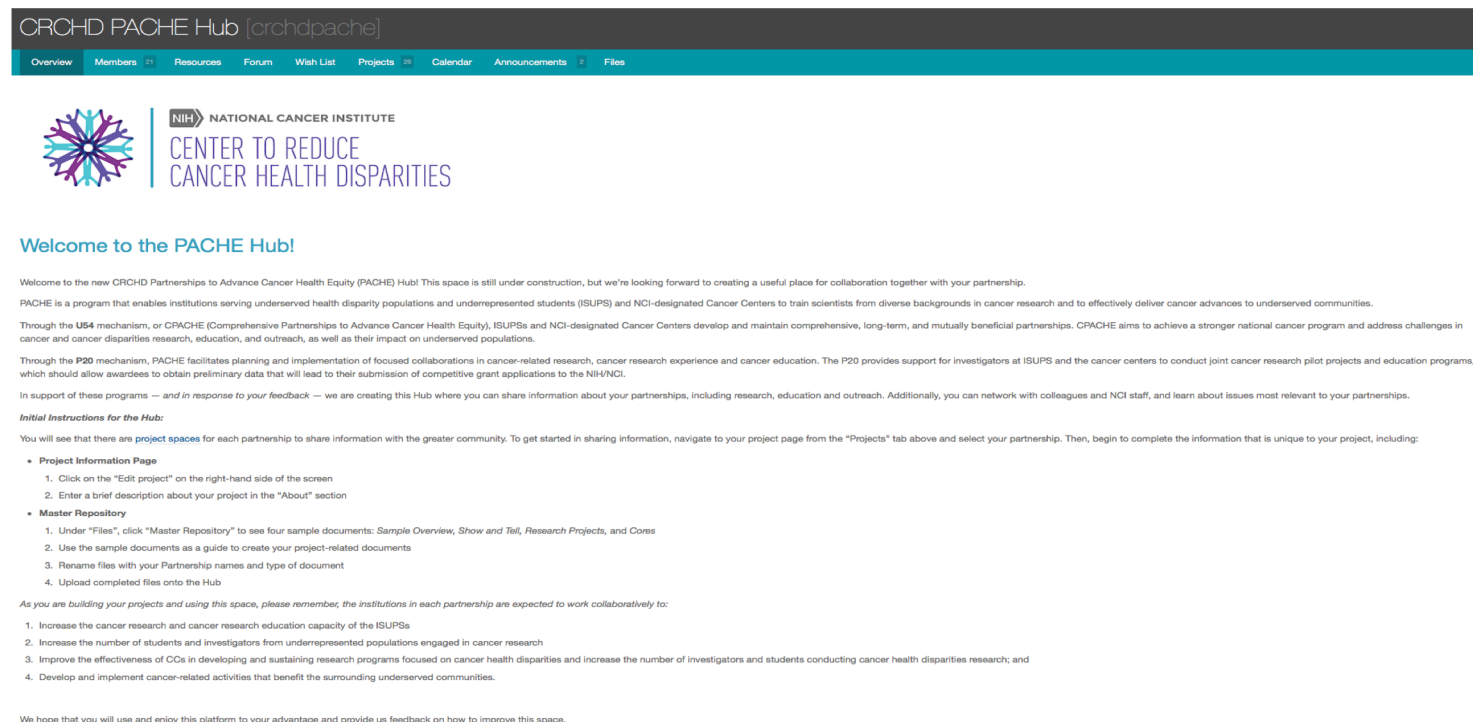
- ❖ Can be used to replace or compliment a program website.
- ❖ Allow access to public or group members only.
- ❖ Extensive selection of tools supporting collaborations: wiki, calendar, discussion forum, wish lists, and more.



Example Group

NCI Center to Reduce Cancer Health Disparities (CRCHD) PACHE Group:

- ❖ Share information about projects, best practices, relevant meetings.
- ❖ Relevant NCIP Hub functionality provided by Groups: Projects, Resources, Forums, Wish List, Calendar



The screenshot shows the CRCHD PACHE Hub website. At the top is a navigation bar with links: Overview, Members, Resources, Forum, Wish List, Projects, Calendar, Announcements, and Files. Below the navigation bar is the NIH logo and the text "NATIONAL CANCER INSTITUTE CENTER TO REDUCE CANCER HEALTH DISPARITIES". The main content area has a heading "Welcome to the PACHE Hub!" followed by a welcome message and instructions. The instructions are divided into two sections: "Project Information Page" and "Master Repository".

Welcome to the PACHE Hub!

Welcome to the new CRCHD Partnerships to Advance Cancer Health Equity (PACHE) Hub! This space is still under construction, but we're looking forward to creating a useful place for collaboration together with your partnership.

PACHE is a program that enables institutions serving underserved health disparity populations and underrepresented students (ISUPS) and NCI-designated Cancer Centers to train scientists from diverse backgrounds in cancer research and to effectively deliver cancer advances to underserved communities.

Through the **U54** mechanism, or CPACHE (Comprehensive Partnerships to Advance Cancer Health Equity), ISUPSs and NCI-designated Cancer Centers develop and maintain comprehensive, long-term, and mutually beneficial partnerships. CPACHE aims to achieve a stronger national cancer program and address challenges in cancer and cancer disparities research, education, and outreach, as well as their impact on underserved populations.

Through the **P20** mechanism, PACHE facilitates planning and implementation of focused collaborations in cancer-related research, cancer research experience and cancer education. The P20 provides support for investigators at ISUPS and the cancer centers to conduct joint cancer research pilot projects and education programs, which should allow awardees to obtain preliminary data that will lead to their submission of competitive grant applications to the NIH/NCI.

In support of these programs — and in response to your feedback — we are creating this Hub where you can share information about your partnerships, including research, education and outreach. Additionally, you can network with colleagues and NCI staff, and learn about issues most relevant to your partnerships.

Initial Instructions for the Hub:

You will see that there are **project spaces** for each partnership to share information with the greater community. To get started in sharing information, navigate to your project page from the "Projects" tab above and select your partnership. Then, begin to complete the information that is unique to your project, including:

- **Project Information Page**
 1. Click on the "Edit project" on the right-hand side of the screen
 2. Enter a brief description about your project in the "About" section
- **Master Repository**
 1. Under "Files", click "Master Repository" to see four sample documents: *Sample Overview, Show and Tell, Research Projects, and Cores*
 2. Use the sample documents as a guide to create your project-related documents
 3. Rename files with your Partnership names and type of document
 4. Upload completed files onto the Hub

As you are building your projects and using this space, please remember, the institutions in each partnership are expected to work collaboratively to:

1. Increase the cancer research and cancer research education capacity of the ISUPSs
2. Increase the number of students and investigators from underrepresented populations engaged in cancer research
3. Improve the effectiveness of COs in developing and sustaining research programs focused on cancer health disparities and increase the number of investigators and students conducting cancer health disparities research; and
4. Develop and implement cancer-related activities that benefit the surrounding underserved communities.

We hope that you will use and enjoy this platform to your advantage and provide us feedback on how to improve this space.

NCIP Hub Projects

- ❖ Manage well defined tasks: manuscript preparation and conference breakout session planning.
- ❖ Upload and organize project files and connect to Google Drive.
- ❖ Option to link related projects under Group functionality.

NCIP HUB PROJECTS

Projects are an organized way to work together on tasks such as new funding proposals, research papers and application development.



How Do Projects Work?



Easy Sharing of Project Data

- Git repository for file storage
- Built-in web file browser for file revisions
- Share select content publically



Simple Team Management

- Add users or invite external collaborators
- Assign Roles



Enhanced Team Communication

- Share project notes
- To-do lists for assigning tasks
- Project feed streams project updates

Project Features



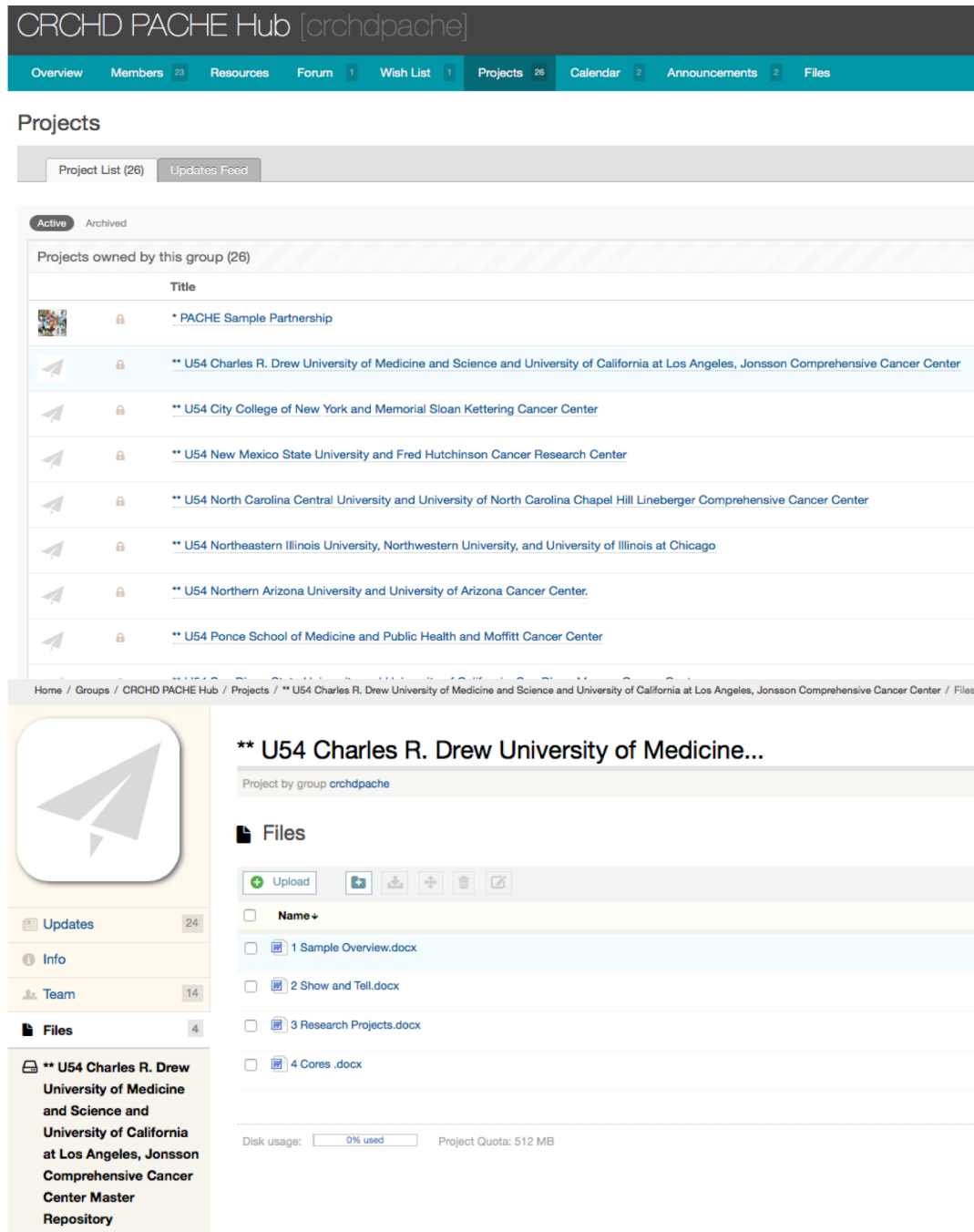
Example Project

PACHE Hub

- ❖ Share information about partnerships.
- ❖ Share and organize files.

To Do:

- ❖ Enter brief project description under “Info”.
- ❖ Update Files



The screenshot displays the CRCHD PACHE Hub interface. At the top, there is a navigation bar with links: Overview, Members (23), Resources, Forum (1), Wish List (1), Projects (26), Calendar (2), Announcements (2), and Files. Below this, the 'Projects' section is active, showing a list of projects owned by the group. The list includes:

- * PACHE Sample Partnership
- ** U54 Charles R. Drew University of Medicine and Science and University of California at Los Angeles, Jonsson Comprehensive Cancer Center
- ** U54 City College of New York and Memorial Sloan Kettering Cancer Center
- ** U54 New Mexico State University and Fred Hutchinson Cancer Research Center
- ** U54 North Carolina Central University and University of North Carolina Chapel Hill Lineberger Comprehensive Cancer Center
- ** U54 Northeastern Illinois University, Northwestern University, and University of Illinois at Chicago
- ** U54 Northern Arizona University and University of Arizona Cancer Center.
- ** U54 Ponce School of Medicine and Public Health and Moffitt Cancer Center

The selected project, '** U54 Charles R. Drew University of Medicine and Science and University of California at Los Angeles, Jonsson Comprehensive Cancer Center', is shown in detail. It includes a sidebar with tabs for Updates (24), Info, Team (14), and Files (4). The main content area shows the project name, a description, and a list of files:

- 1 Sample Overview.docx
- 2 Show and Tell.docx
- 3 Research Projects.docx
- 4 Cores .docx

At the bottom, there is a section for 'Disk usage' showing 0% used and a 'Project Quota' of 512 MB.

NCIP HUB Resources

- ❖ Submit presentations, white papers, videos.
- ❖ More formal way to publish digital assets than attaching files to NCIP Hub wiki or projects.
- ❖ Include authors, affiliations, license and funding information.
- ❖ Support for Digital Object Identifiers, DOI.

NCIP HUB RESOURCES

Resources are user-submitted pieces of content such as videos, datasets, teaching materials, workshops and more.



How Do Resources Work?



Comprehensive Creation Tool

- Create many different resource types
- Add contributor bios, funding info, credits, tags and more
- Tack on sub-files to create child resources



Editable Access

- Resources viewable by public or only logged-in users



Browse What's Available

- View and rate content
- Write resource reviews

Resource Features

CREATION TOOL



MULTIPLE CATEGORIES



CONTRIBUTOR DATA



CHILD RESOURCES



CUSTOM ACCESS



BROWSE BY CATEGORY



RATE AND REVIEW



Example Resource

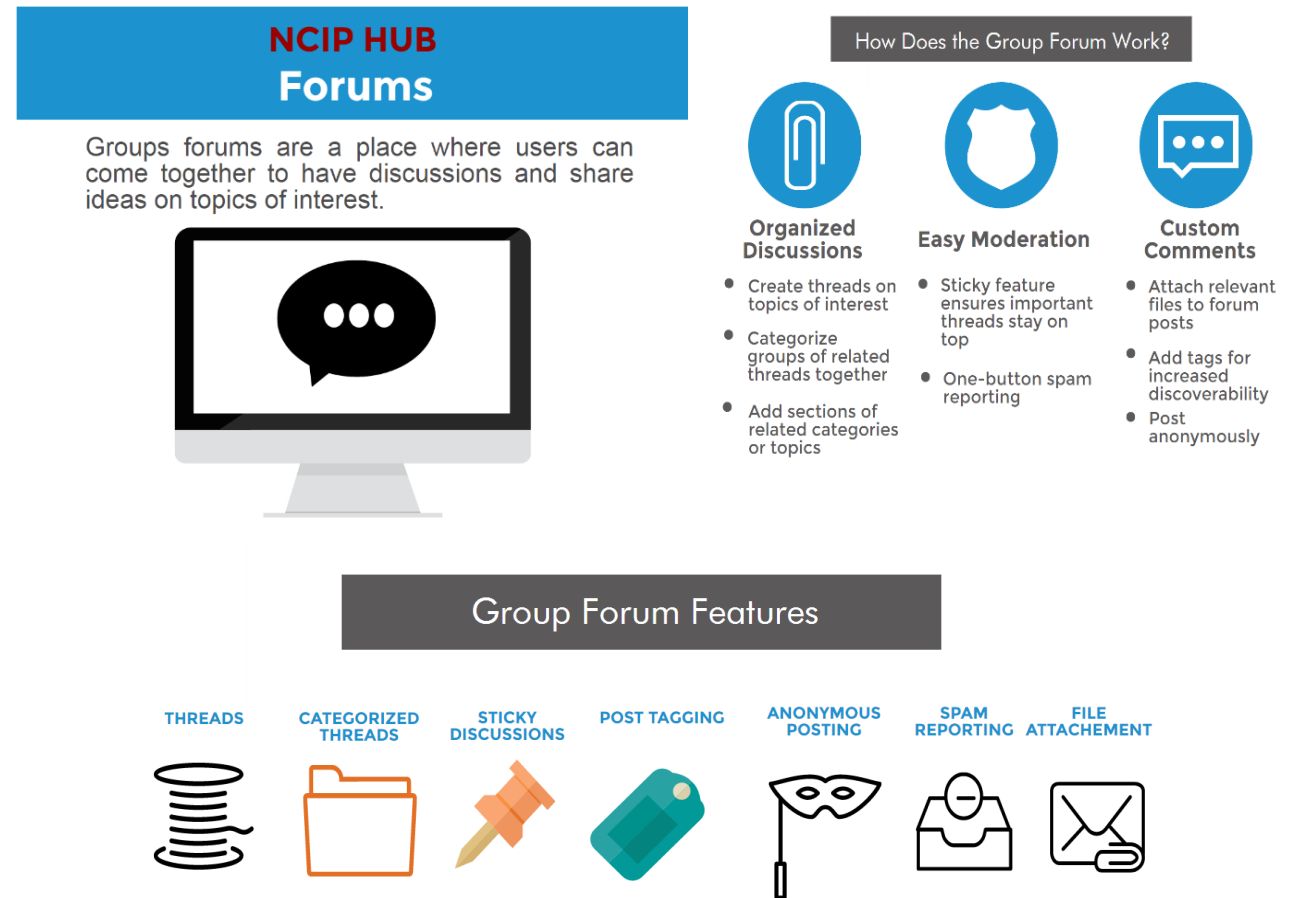
NCI Nanotechnology WG
(Mervi Heiskanen, CBIIT)

- ❖ Used for sharing conference call presentations
- ❖ Submission of names and affiliations with the presentation ensures the presenter(s) get proper credit
- ❖ Submission of keywords (tags) make it easier for users to find content in the NCIP Hub

The screenshot displays the NCIP Hub interface. The top navigation bar includes links for DISCOVER, RESOURCES, COMMUNITY, ABOUT, and SUPPORT. A search bar is located on the right. The main content area shows the 'Nanotechnology Working Group (Nano WG)' resources page. A sidebar on the left lists various group management tools like Overview, Members, Wiki, Resources, Forum, Blog, Wish List, Usage, Projects, Calendar, Announcements, Collections, Files, and Activity. The main resource page features a list of publications, including 'caNanoLab: data sharing to expedite the use of nanotechnology in biomedicine', 'Sidora: A Software Environment for Nanotechnology', 'Values Of Precision and the Data-Readiness Levels', 'Considerations of relevant data-readiness levels', 'An ISA-TAB Nano compliance checklist', and 'Design and Applications of Nanomaterials'. The selected resource, 'Data Sharing and the Electronic NanoBook (eNanoBook)' by Alexander Tropsha and Fred Prior, is shown in detail. It includes a download button (PDF, 18.57 MB), a license section, an abstract, a citation section, a submitter field (Mervi Heiskanen), and a list of tags: caNanoLab, databases, nanoinformatics, Nanomaterial Registry, nanomedicine, Nano WG, and The Cancer Imaging Archive.

NCIP HUB Discussion Forums

- ❖ Communicate with program participants to plan meetings and other program activities.
- ❖ Discuss workflows, protocols, challenges and suggest improvements.
- ❖ Ability to attach files to discussion threads: use to organize meeting materials.



Example Discussion Forum

Amigos Workshop (Shannon Hughes, DCB):

- ❖ Used as a pre workshop collaboration space to exchange ideas and to discuss meeting themes.
- ❖ Also used for post workshop communications.
- ❖ Feedback: easy to navigate, ability to add attachments was useful.

The screenshot shows the AMIGOS Workshop 2016 Forum page. The header includes the NCIP HUB logo and navigation links: DISCOVER, RESOURCES, COMMUNITY, ABOUT, and SUPPORT. A search bar is located in the top right. The left sidebar contains a navigation menu with options: Overview, Members (40), Forum (13), Wish List (3), Usage, Projects (10), Calendar, Announcements (5), Files, and Activity (1). The main content area is titled 'AMIGOS Workshop 2016 Forum' and displays a list of discussions. The discussions are organized in a table with columns for the discussion title, number of posts, and the last post. The discussions include topics such as 'Solicitation of Letters of Intent for potential projects', 'structural framework for cancer cell - immune interactions', 'Integrated analysis of the breast cancer Proteome, Metabolome and Transcriptome', 'Stem cells and cancer', 'Please post confirmed conference calls here', 'Mathematical modeling to improve clinical trial design', 'Cancer Invasion and Metastasis', 'List of available datasets', 'Tumor Dormancy', 'Tumor-immune system interactions', 'Drug resistance mechanisms', 'Tumor Microenvironment', and 'Tumor Metabolism'. The bottom of the page shows pagination information: 'Start 1 End' and 'Display # 20 Results 1 - 13 of 13'.

NCIP HUB Wish Lists

- ❖ Collect community input to prioritize tasks and new features.
- ❖ Allows community to vote and comment on the wish list entries.

NCIP HUB WISHLISTS

Group wishlists allow members to crowdsource tasks, projects or activities.



How Does the Group Wishlist Work?



Simple Wishes

- Wishes may be proposed by any group member
- Add tags for discoverability



Easy Wish Management

- Managers accept or reject wishes
- Managers select importance and level of effort for accepted wishes



Community Interaction

- Pending wishes listed by priority
- Community upvotes or downvotes accepted wishes
- Members comment on and discuss wishes

Wishlist Features

PRIORITIZATION



IMPORTANCE DESIGNATION



WISH TAGS



COMMUNITY VOTING



COMMENT THREADS



Example Wish List

caNanoLab Data Curation (Luisa Russell, NCI)

❖ Users: caNanoLab data curation team.

❖ Submit, review and approve publications for submission to the caNanoLab database.

The screenshot displays the caNanoLab Curation interface. The top navigation bar includes links for DISCOVER, RESOURCES, COMMUNITY, ABOUT, and SUPPORT. The main content area is titled 'caNanoLab Curation' and shows a 'Wish List' with a 'Prioritized List of Pending Requests (view all 70)'. A specific wish is highlighted: 'Biodegradable STING agonist nanoparticles for enhanced cancer immunotherapy' by Michal Lijowski, dated 11:05 am on 23 Feb 2018. The wish details panel shows the title, a detailed description of the research, and a voting section with 'Importance' and 'Effort' sliders. The status is 'PENDING' and it is noted as 'awaiting for list owner(s) to accept/reject the wish'.

NCIP Hub Calendar

- ❖ Schedule meetings and manage events, option to create multiple calendars.
- ❖ Supports meeting registration and abstract submission.



Example Calendar

NCI Nanotechnology WG (Mervi Heiskanen, CBIIT)

- Mange weekly conference calls.
- Several project leads, all can access and edit a common calendar.
- Export events to Mac and Google calendar (ics).

Nanotechnology Working Group (Nano WG) ► Calendar

March 2018

11a Nano WG: Nanoinformatics Roadmap and...

11a Nano G: OpenRiskNet project

Calendar Alert: Nanotechnology Working Group (Nano WG) has 3 events this month.

Nano WG: Nanoinformatics in the future: Five easy pieces (John Rumble)

Add Location

Feb 15, 2018 11 AM to 12 PM

Add Invitees

Brief abstract: What can we learn from past scientific data work? The answer in Five easy pieces.

Add URL or Attachments



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NCIP HUB USER DEMO

JOINING PACHE HUB

1. You will receive an email from NCIP HUB groups asking you to join the CRCHD PACHE HUB group. Check your spam folder also for this invite.
2. Click the blue box in the email that says, “Accept Invite” .
3. You will be led to the NCIP Hub landing page (home page).
4. At this point there are two options depending on whether you have an NCIP HUB account.

If you already have a NCIP HUB account

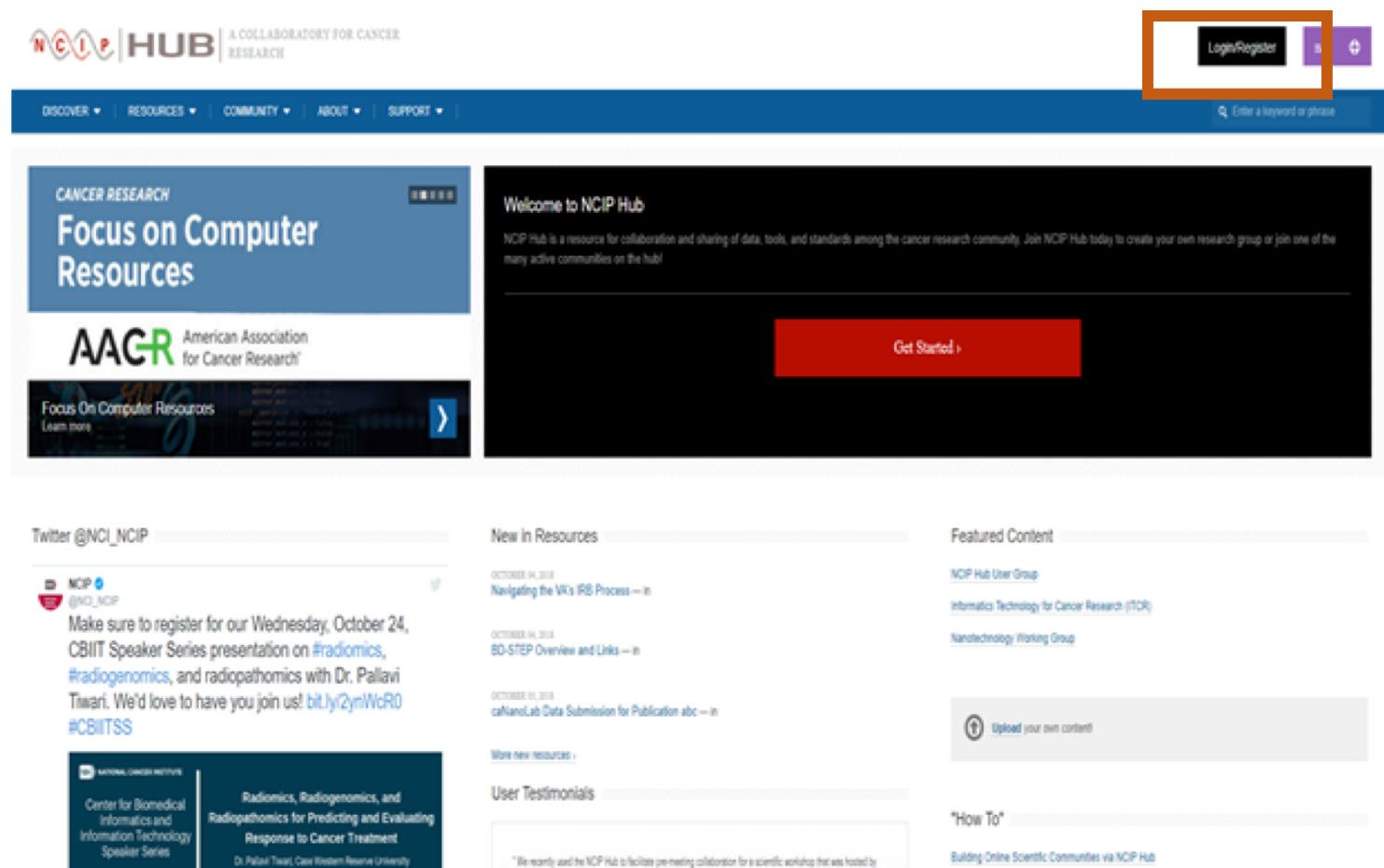
- Login to NCIP HUB and find that CRCHD PACHE HUB is added to your groups session on your dashboard.

If you do not have a NCIP HUB account

- You first need to create one in order to access the CRCHD PACHE HUB group.
- Follow the next steps.

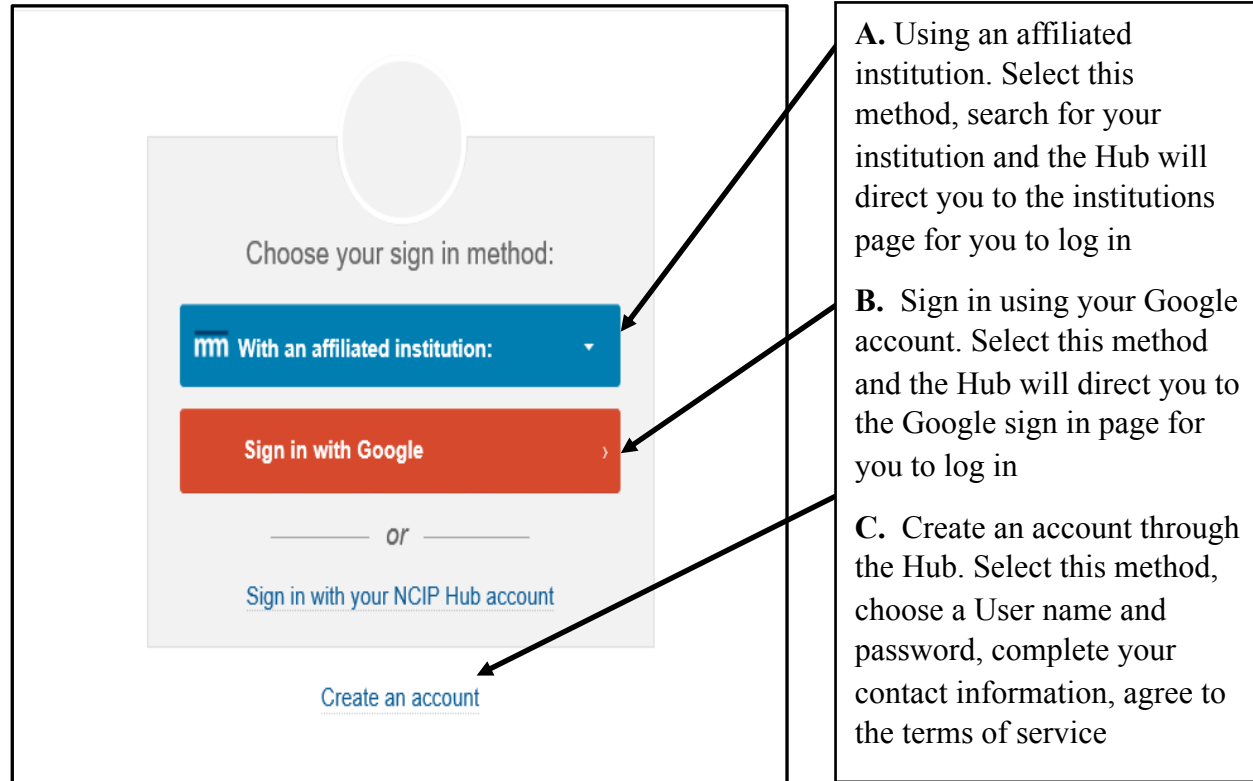
CREATING AN ACCOUNT ON NCIP HUB

- ❖ Click on the Login/Register button on the top right-hand corner of the page (marked in red).



The screenshot shows the NCIP HUB website. At the top right, the 'Login/Register' button is highlighted with a red rectangular box. The website header includes the NCIP HUB logo and navigation links: DISCOVER, RESOURCES, COMMUNITY, ABOUT, and SUPPORT. Below the header, there are several sections: a 'Cancer Research Focus on Computer Resources' banner, a 'Welcome to NCIP Hub' section with a 'Get Started' button, a Twitter feed for @NCI_NCIP, a 'New in Resources' section, a 'Featured Content' section, and a 'User Testimonials' section. The footer contains information about the National Cancer Institute and the Center for Biomedical Informatics and Information Technology.

❖ You can register one of three ways:



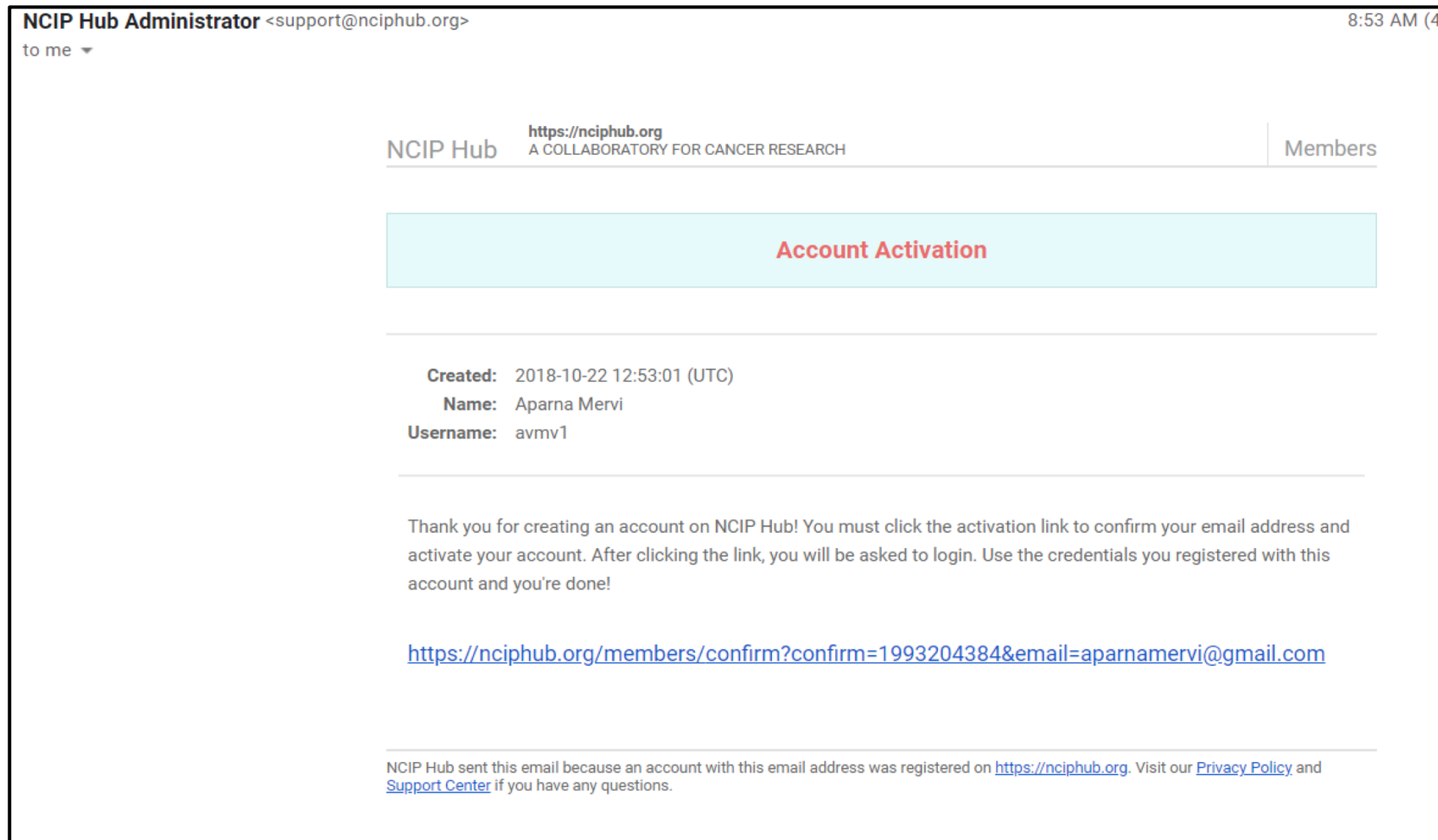
The image shows a registration interface for the NCIP Hub. It features a light gray background with a white circle at the top. Below the circle, the text "Choose your sign in method:" is displayed. There are three main options: a blue button labeled "With an affiliated institution:" with a dropdown arrow, a red button labeled "Sign in with Google" with a right-pointing arrow, and a blue link labeled "Sign in with your NCIP Hub account". Below these, separated by "or", is a blue link labeled "Create an account". Three arrows point from the text boxes on the right to these three options.

A. Using an affiliated institution. Select this method, search for your institution and the Hub will direct you to the institutions page for you to log in

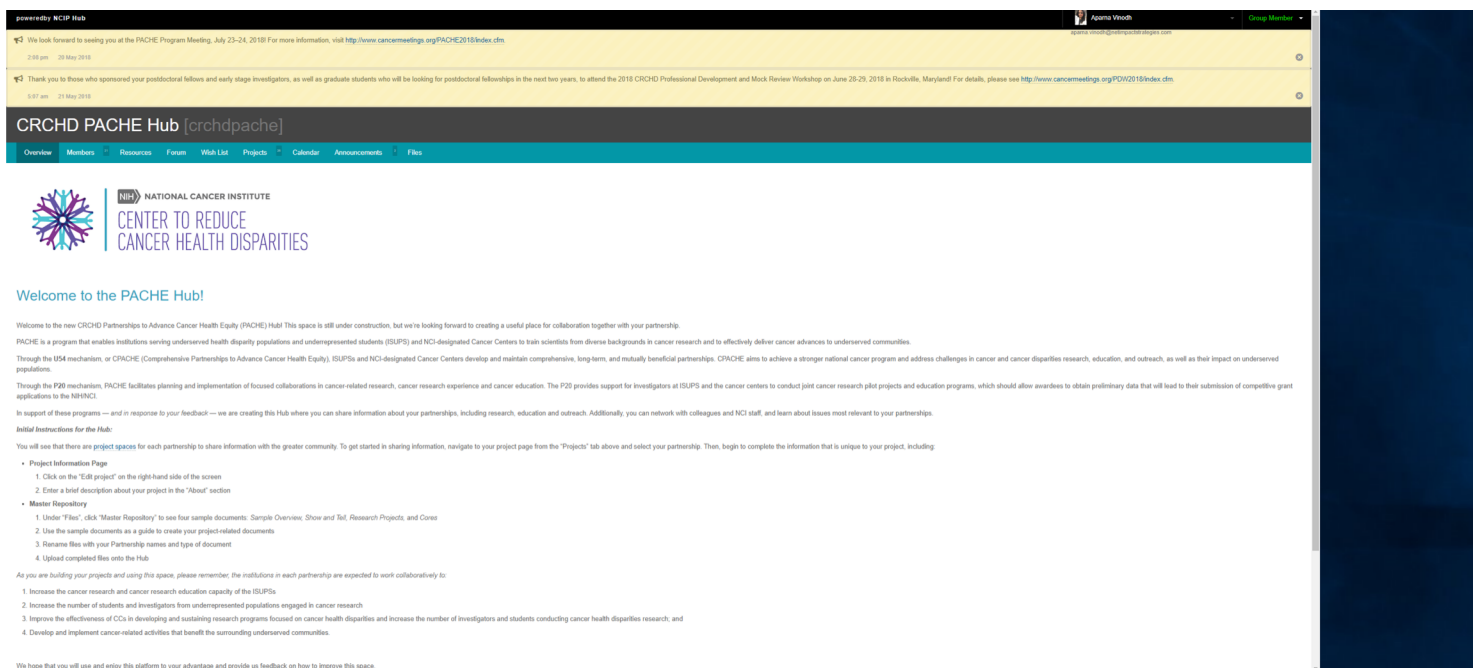
B. Sign in using your Google account. Select this method and the Hub will direct you to the Google sign in page for you to log in

C. Create an account through the Hub. Select this method, choose a User name and password, complete your contact information, agree to the terms of service

- ❖ Return to the email account that you used to register for the NCIP Hub account. You will receive an email from the NCIP Hub Administrator. Click the link provided to activate your account.



- ❖ Log in using the new credentials that you created.
- ❖ Once you log in, your dashboard should appear. Under the groups session of the dashboard, you must find the CRCHD PACHE HUB group added.
- ❖ Click on the link to the group and access the group.



The screenshot shows the CRCHD PACHE Hub dashboard. At the top, there is a navigation bar with the text "powered by NCIP Hub" and a user profile for "Agam Vroth" with a "Group Member" dropdown. Below the navigation bar, there are two yellow announcement boxes. The first box says: "We look forward to seeing you at the PACHE Program Meeting, July 23-24, 2018! For more information, visit <http://www.cancermeeetings.org/PACHE2018/index.dfm>". The second box says: "Thank you to those who sponsored your postdoctoral fellows and early stage investigators, as well as graduate students who will be looking for postdoctoral fellowships in the next two years, to attend the 2018 CRCHD Professional Development and Mock Review Workshop on June 20-25, 2018 in Rockville, Maryland! For details, please see <http://www.cancermeeetings.org/PDR2018/index.dfm>". Below the announcements is a teal navigation bar with the text "CRCHD PACHE Hub [orchdpache]" and a menu with items: Overview, Members, Resources, Forum, Web List, Projects, Calendar, Announcements, and Files. The main content area features the NCI logo and the text "NATIONAL CANCER INSTITUTE CENTER TO REDUCE CANCER HEALTH DISPARITIES". Below this is a "Welcome to the PACHE Hub!" section. The welcome message states: "Welcome to the new CRCHD Partnerships to Advance Cancer Health Equity (PACHE) Hub! This space is still under construction, but we're looking forward to creating a useful place for collaboration together with your partnership. PACHE is a program that enables institutions serving underserved health disparity populations and underrepresented students (ISUPs) and NCI-designated Cancer Centers to train scientists from diverse backgrounds in cancer research and to effectively deliver cancer advances to underserved communities. Through the USA mechanism, or CPACHE (Comprehensive Partnerships to Advance Cancer Health Equity), ISUPs and NCI-designated Cancer Centers develop and maintain comprehensive, long-term, and mutually beneficial partnerships. CPACHE aims to achieve a stronger national cancer program and address challenges in cancer and cancer disparities research, education, and outreach, as well as their impact on underserved populations. Through the PDR mechanism, PACHE facilitates planning and implementation of focused collaborations in cancer-related research, cancer research experience and cancer education. The PDR provides support for investigators at ISUPs and the cancer centers to conduct joint cancer research pilot projects and education programs, which should allow awardees to obtain preliminary data that will lead to their submission of competitive grant applications to the NCI/NCI. In support of these programs — and in response to your feedback — we are creating this Hub where you can share information about your partnerships, including research, education and outreach. Additionally, you can network with colleagues and NCI staff, and learn about issues most relevant to your partnerships. Initial instructions for the Hub: You will see that there are project spaces for each partnership to share information with the greater community. To get started in sharing information, navigate to your project page from the "Projects" tab above and select your partnership. Then, begin to complete the information that is unique to your project, including: • Project Information Page 1. Click on the "Edit project" on the right-hand side of the screen 2. Enter a brief description about your project in the "About" section • Master Repository 1. Under "Files", click "Master Repository" to see four sample documents: Sample Overview, Show and Tell, Research Projects, and Core 2. Use the sample documents as a guide to create your project-related documents 3. Rename files with your Partnership names and type of document 4. Upload completed files into the Hub As you are building your projects and using this space, please remember, the institutions in each partnership are expected to work collaboratively to: 1. Increase the cancer research and cancer research education capacity of the ISUPs 2. Increase the number of students and investigators from underrepresented populations engaged in cancer research 3. Improve the effectiveness of CCRs in developing and sustaining research programs focused on cancer health disparities and increase the number of investigators and students conducting cancer health disparities research; and 4. Develop and implement cancer-related activities that benefit the surrounding underserved communities. We hope that you will use and enjoy this platform to your advantage and provide us feedback on how to improve this space."



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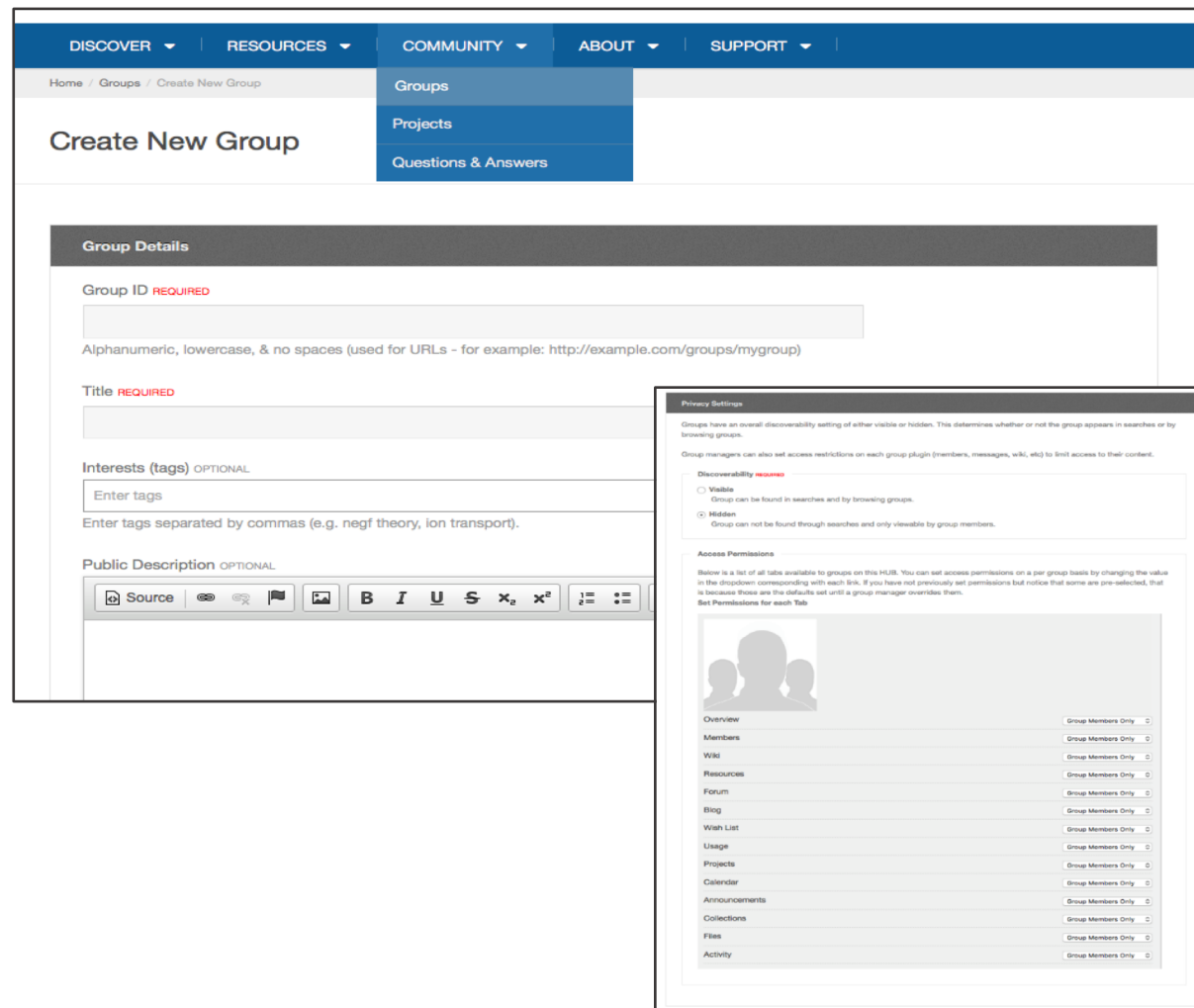
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OVERVIEW OF THE DIFFERENT FUNCTIONALITIES OF NCIP HUB



CREATING YOUR OWN GROUP ON NCIP HUB

- ❖ NCIP Hub <https://nciphub.org>.
- ❖ Browse public information without login.
- ❖ Create an account to set up your own “Test Group”: Go to Groups, Create New Group, Access to Group Members Only.
- ❖ Join the NCIP Hub User Group <https://nciphub.org/groups/ncipworkinggroup>.



DISCOVER ▼ RESOURCES ▼ COMMUNITY ▼ ABOUT ▼ SUPPORT ▼

Home / Groups / Create New Group

Create New Group

Groups
Projects
Questions & Answers

Group Details

Group ID REQUIRED







Alphanumeric, lowercase, & no spaces (used for URLs - for example: <http://example.com/groups/mygroup>)

Title REQUIRED

Interests (tags) OPTIONAL

Enter tags separated by commas (e.g. negf theory, ion transport).

Public Description OPTIONAL

Source     **B** **I** **U** **S** **x₂** **x²**  

Privacy Settings

Groups have an overall discoverability setting of either visible or hidden. This determines whether or not the group appears in searches or by browsing groups.

Group managers can also set access restrictions on each group plugin (members, messages, wiki, etc) to limit access to their content.

Discoverability visible

☐ Visible
Group can be found in searches and by browsing groups.

☒ Hidden
Group can not be found through searches and only visible by group members.

Access Permissions

Below is a list of all tabs available to groups on this HUB. You can set access permissions on a per group basis by changing the value in the dropdown corresponding with each link. If you have not previously set permissions but notice that some are pre-selected, that is because these are the defaults set until a group manager overrides them.

Set Permissions for each Tab

Tab	Permissions
Overview	Group Members Only
Members	Group Members Only
Wiki	Group Members Only
Resources	Group Members Only
Forum	Group Members Only
Blog	Group Members Only
Wish List	Group Members Only
Usage	Group Members Only
Projects	Group Members Only
Calendar	Group Members Only
Announcements	Group Members Only
Collections	Group Members Only
Files	Group Members Only
Activity	Group Members Only

WE ARE HERE TO HELP ! – THE NCIP HUB TEAM

Please feel free to set up a time with us for a detailed personal walk through if you would like.

CONTACT DETAILS

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THANK YOU !

ANY QUESTIONS ?

NCIP Hub NCI Team:
Mervi Heiskanen, Aparna Vinodh