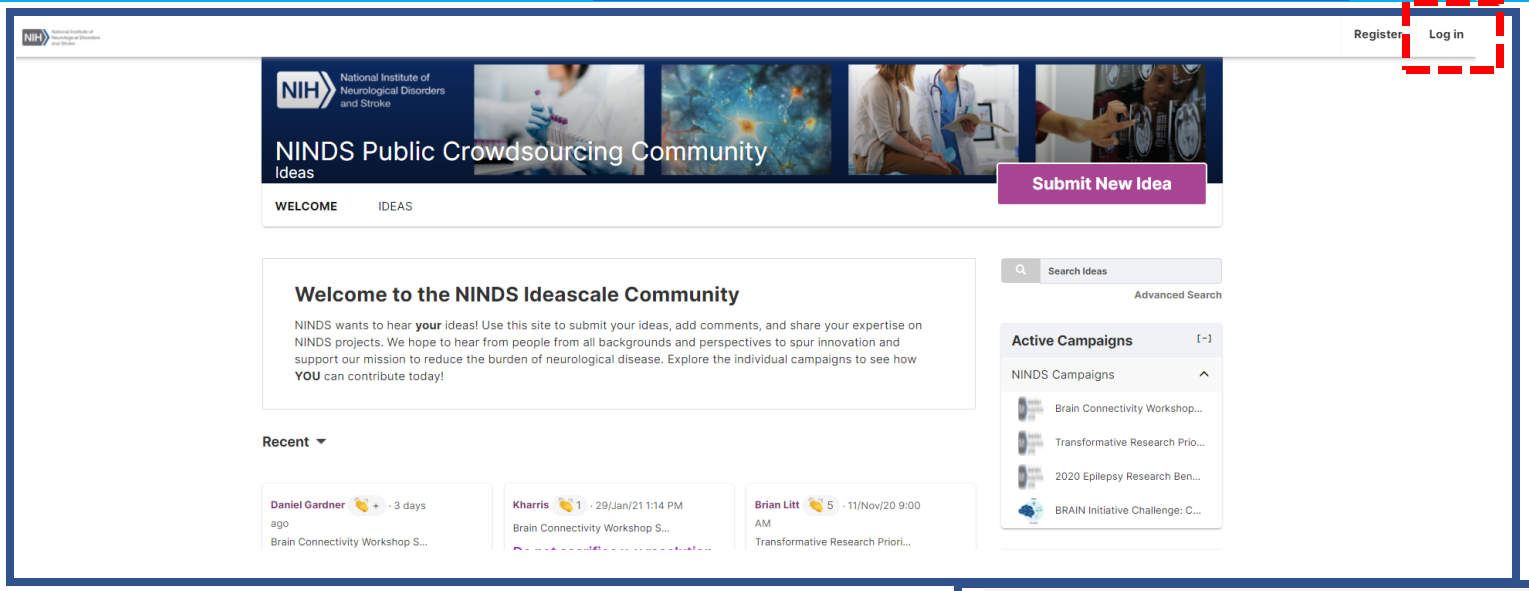
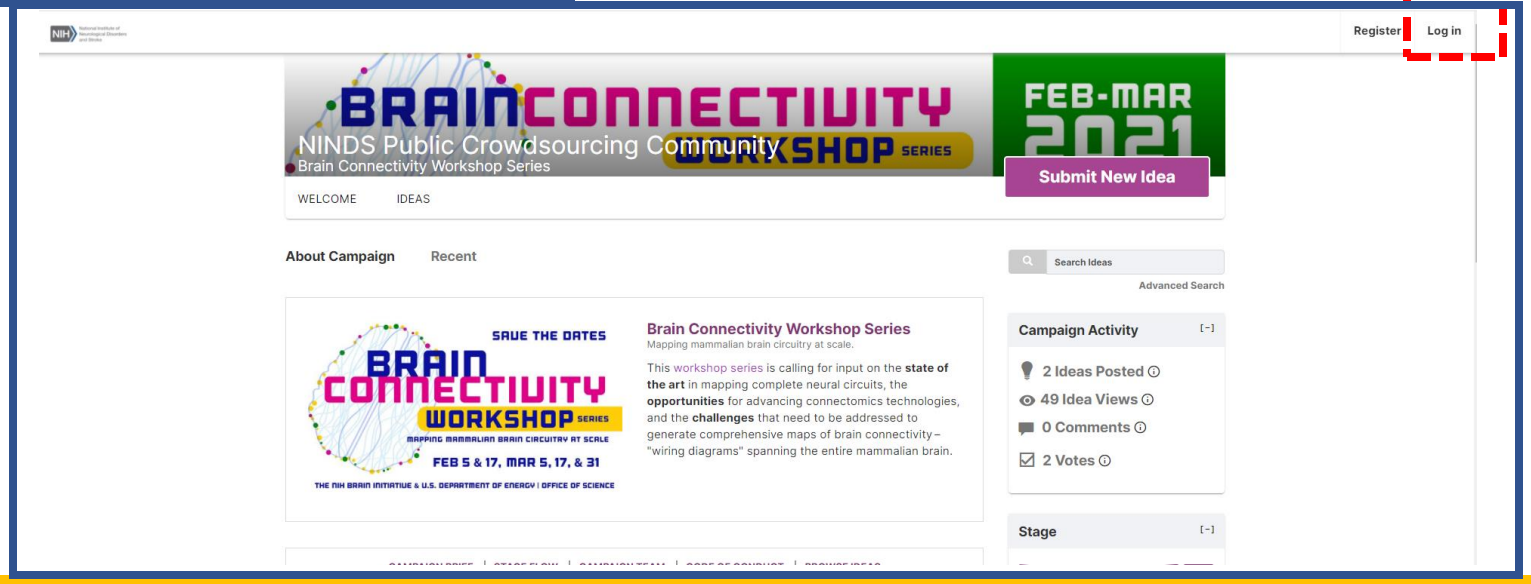
IDEASCALE:
IDEA SUBMISSION

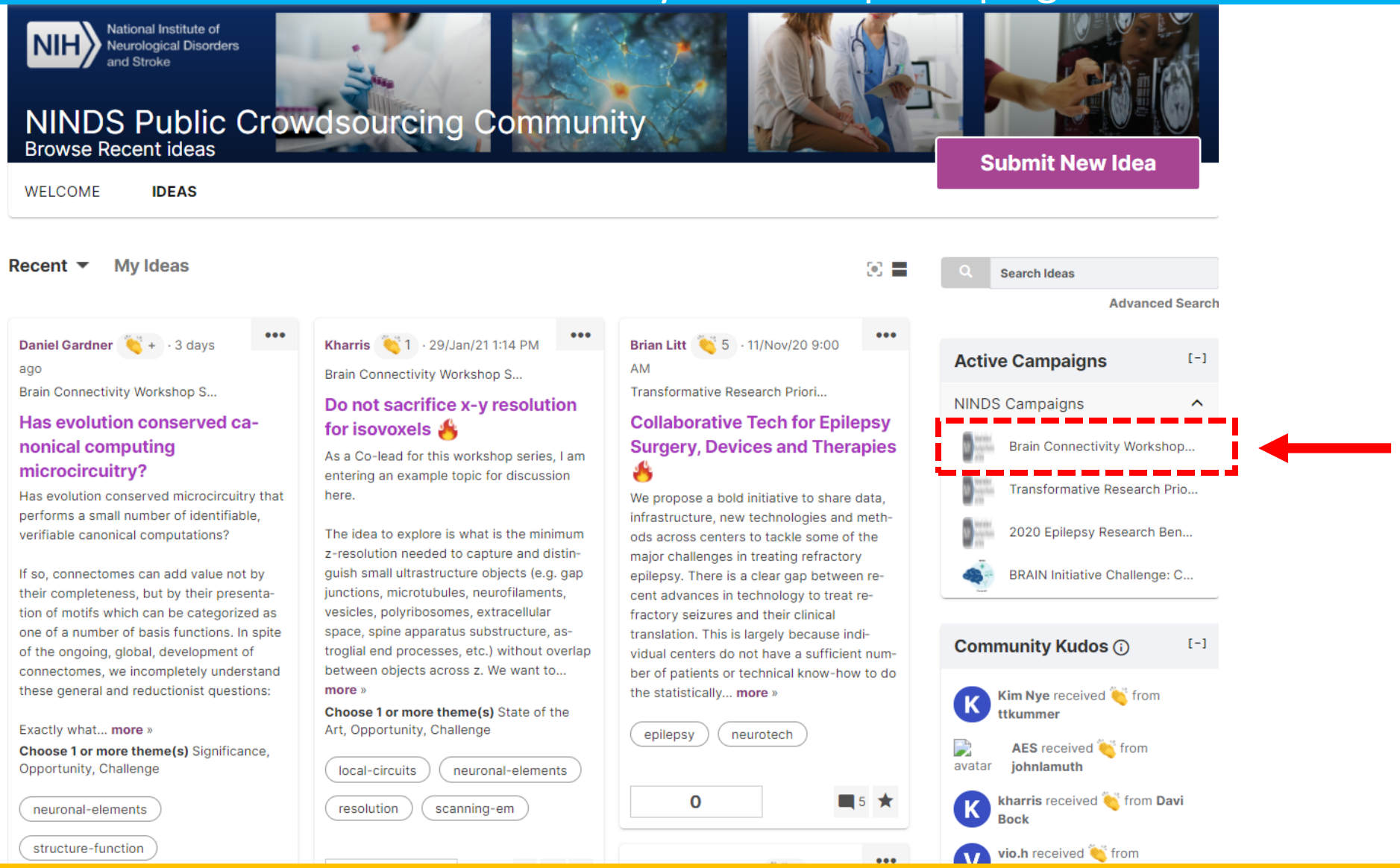
Begin by logging into main NINDS IdeaScale community page (top) or the Brain Connectivity Workshop campaign page (bottom)





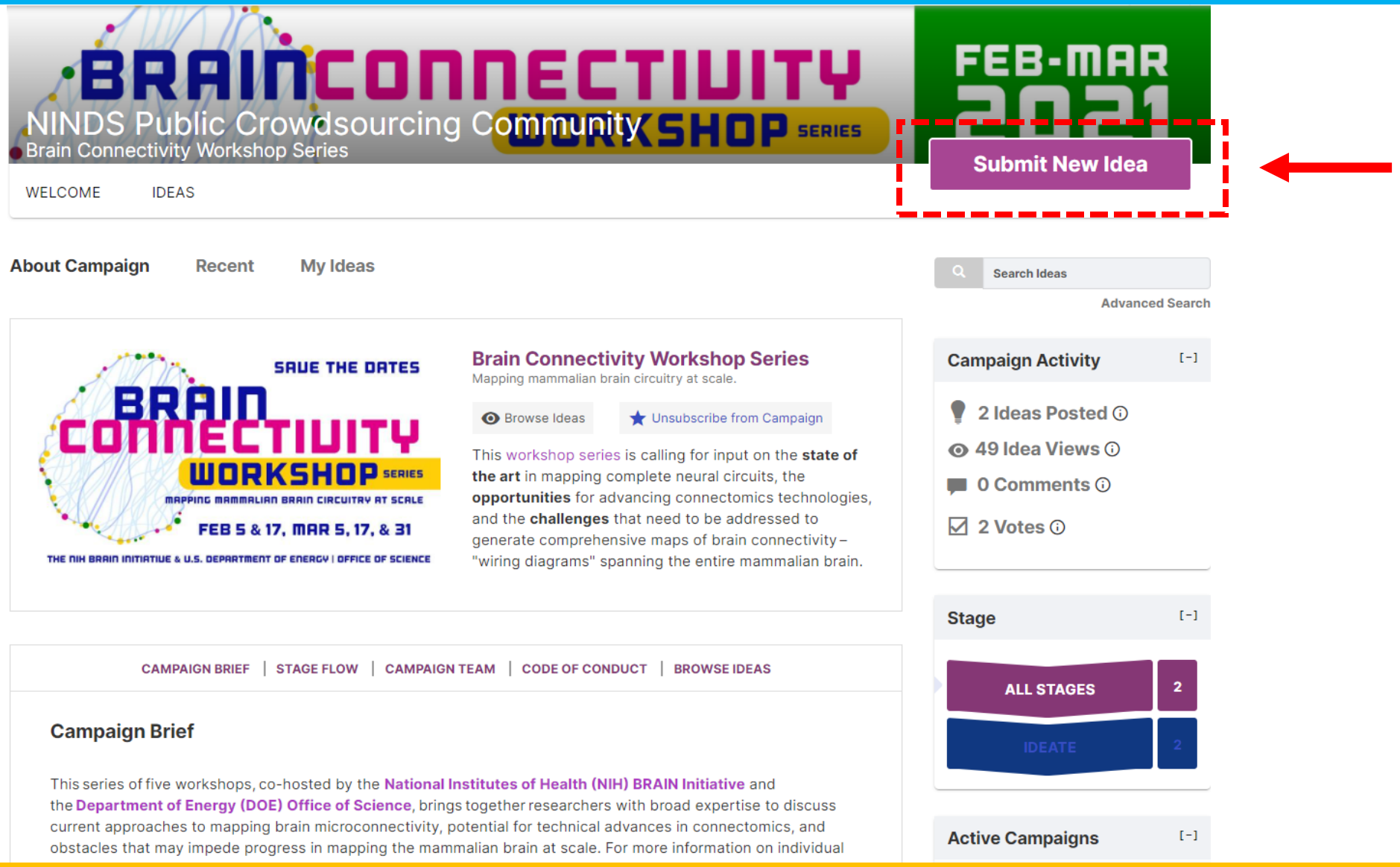
If you have forgotten your login information, follow the on-screen prompts for recovery.

From the main NINDS IdeaScale community page,
click on the Brain Connectivity Workshop campaign link.



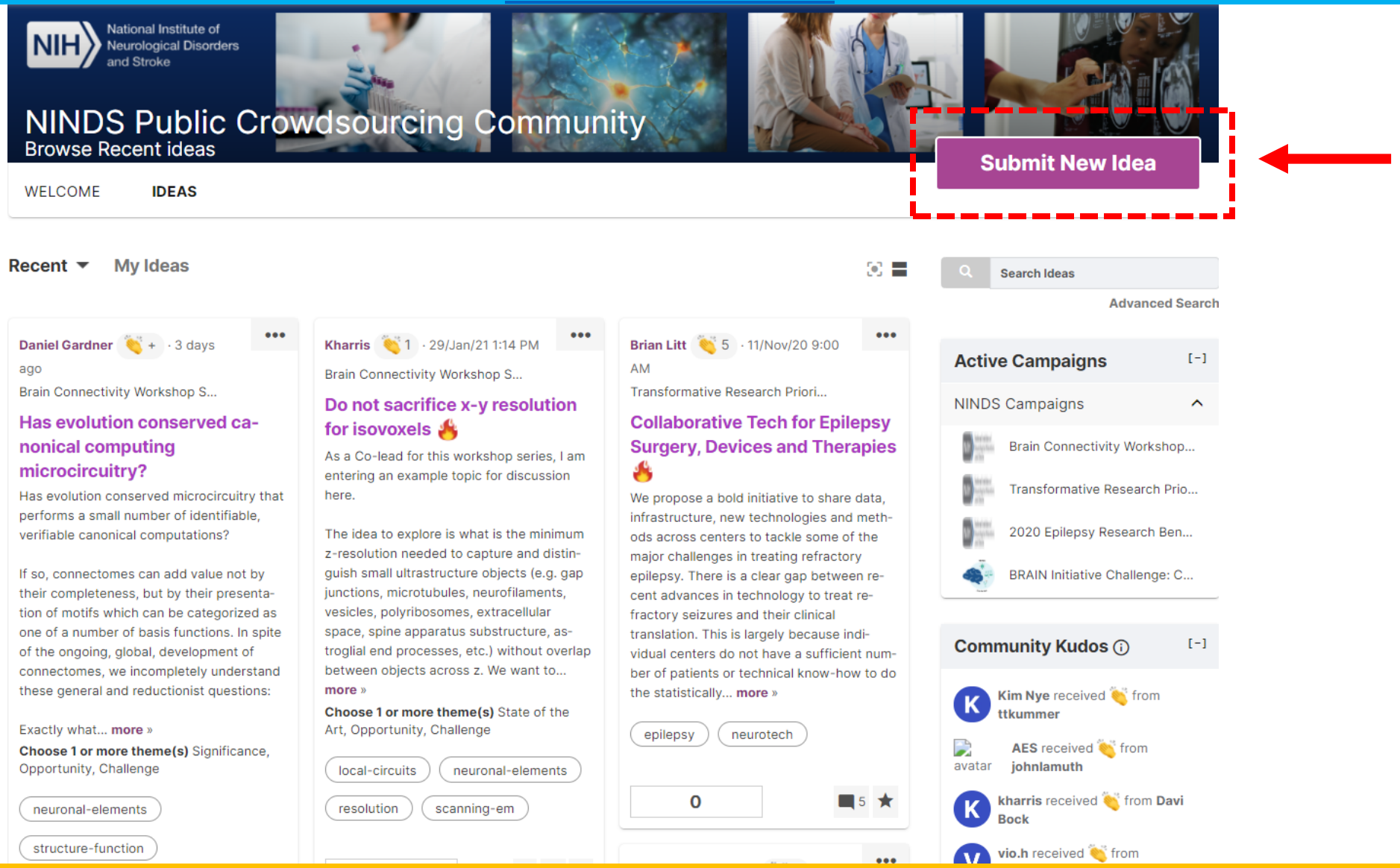
You will be directed to the Workshop IdeaScale campaign page.

From the Brain Connectivity Workshop campaign page, click the "Submit New Idea" button.



You will be directed to the Idea Submission Form.

Alternatively, from the main NINDS IdeaScale community page, click on the "Submit New Idea" button.



You will be directed to the Idea Submission Form.

Verify that the campaign is set to the “Brain Connectivity Workshop Series”.

WELCOME IDEAS

Submit Your Idea

0 Drafts

The **Brain Connectivity Workshop Series**, co-hosted by **The National Institutes of Health (NIH) BRAIN Initiative** and the **Department of Energy (DOE) Office of Science**, aims to bring together researchers with broad expertise to discuss current approaches to mapping brain microconnectivity, potential for technical advances in connectomics, and obstacles that may impede progress toward mapping the mammalian brain at scale. For more information on individual Workshop agendas, meeting registration, and IdeaScale tutorials, please see the meeting website: **https://brainconnectivityseries.com/**

We are seeking input from experts in brain connectomics and other key stakeholders including researchers in academia and industry; clinicians, scientific societies and advocacy organizations; and interested members of the public. We want to hear your view on the **significance** of mapping mammalian brain circuitry in detail, as well as your feedback and ideas on the **state of the art** in mapping complete neural circuits, the current **opportunities** for advancing connectomics technologies, and the **challenges** that need to be addressed to generate comprehensive maps of brain connectivity.

Responses to the workshop questions are voluntary and, if preferred, may be submitted anonymously via **brainconnectivityseries@nih.gov**. Please do not include any information that you do not wish to make public. Proprietary, classified, confidential, or sensitive information should not be included in your response.

We invite you to join in on the conversation and to check in over the course of the Series as the discussions evolve!

*Required fields

Campaign* √ Completed: Required Field 1 of 5

Brain Connectivity Workshop Series

Choose a question*

-

Choose 1 or more theme(s) *

+ Significance + State of the Art + Opportunity + Challenge + Other

Response Title*

64 characters left in Response Title field

At the top of the form, you will find a description of the Workshop series and instructions for this Idea Submission Form.

From the dropdown menu, select a question you would like to respond to.

*Required fields

Campaign* √ Completed: Required Field 1 of 5

Brain Connectivity Workshop Series

Choose a question *

-

Choose 1 or more theme(s) *

+ Significance | + State of the Art | + Opportunity | + Challenge | + Other

Response Title*

64 characters left in Response Title field

Response*

Attach an image or supporting document (Optional)

Browse File or Drag & Drop

Maximum upload size 25 MB

Hyperlinks to existing research related to this idea

*Required fields

Campaign* √ Completed: Required Field 1 of 5

Brain Connectivity Workshop Series

Choose a question *

-

-

Workshop 1: Significance of mapping complete neural circuits

1a) What issues would you be able to address if you had detailed connectome data that cannot currently be investigated?

1b) Are there conceptual issues that would be approached entirely differently if detailed connectomic data were available?

1c) What would be the value added between having one versus many samples (e.g., individuals, conditions, species)?

Workshop 2: Sample preparation in mammalian whole-brain connectomics

2a) What are key issues to be resolved in sample preparation for whole mouse brain EM connectomes in conjunction with different imaging platforms?

2b) What key issues do you feel must be resolved in sample preparation using complementary imaging at lower resolution in mouse brains and larger brains?

2c) What are the limitations, potentials and greatest opportunities in moving to larger brains?

Workshop 3: Experimental modalities for whole-brain connectivity mapping

3a) In your opinion, what resolution is required to attain meaningful wiring models?

3b) Given the wide variety of imaging technologies currently available, which technologies could be driven to scale and most easily disseminated?

3c) What would be the most optimal way to encode dynamics in static brain maps?

Workshop 4: Connectome generation and data pipelines

4a) What are the prospects and challenges you see in scaling analysis goals to volumes comprising hundreds of petavoxels of imaging data?

4b) What kinds of improvements in technical infrastructure (hardware and/or software) would most dramatically aid in scaling analysis?

4c) What new frontiers of analysis enabled by a whole mammalian connectome excite you most? What challenges do you see in pursuing those frontiers?

Workshop 5: Optimizing the use of connectomic data to drive data science and scientific discovery

5a) What new types of analyses (not developed yet) are needed to make progress and enable scientific breakthroughs?

5b) What would be the most optimal way to integrate analyses across scales? Or connectomic data with functional data?

5c) What is needed to make meaningful comparisons between connectomes? Or to make connectomic data and analyses widely available?

Open Discussion

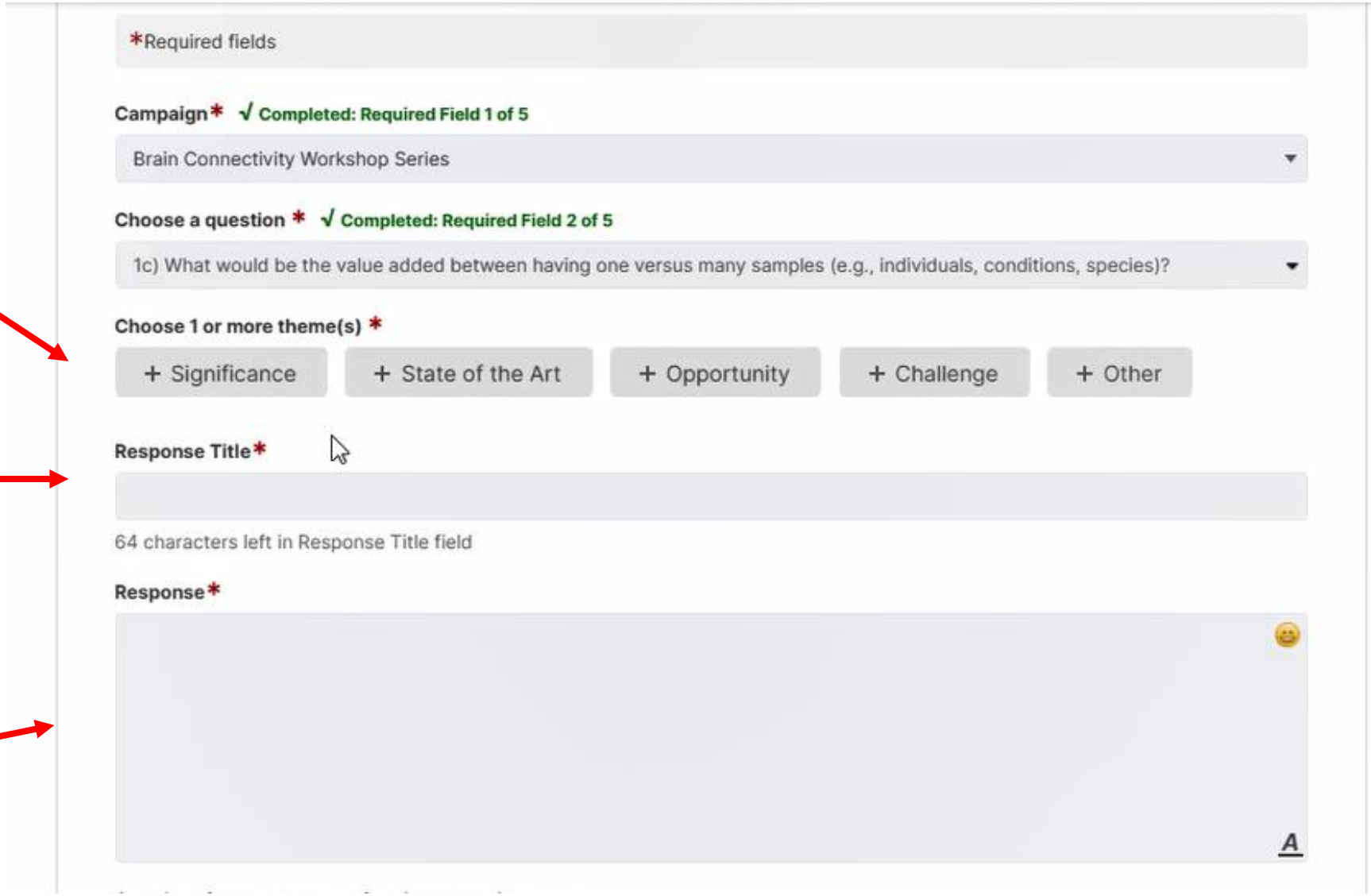
If the question you would like to address is not listed,
select the option to “engage the community with your own topic”.

Proceed to fill out the rest of the form, with ***required*** elements denoted by *

1) Select a theme to help categorize your Idea

2) Create a clear and concise title that engages other users.

3) Describe your idea for others to view and discuss.

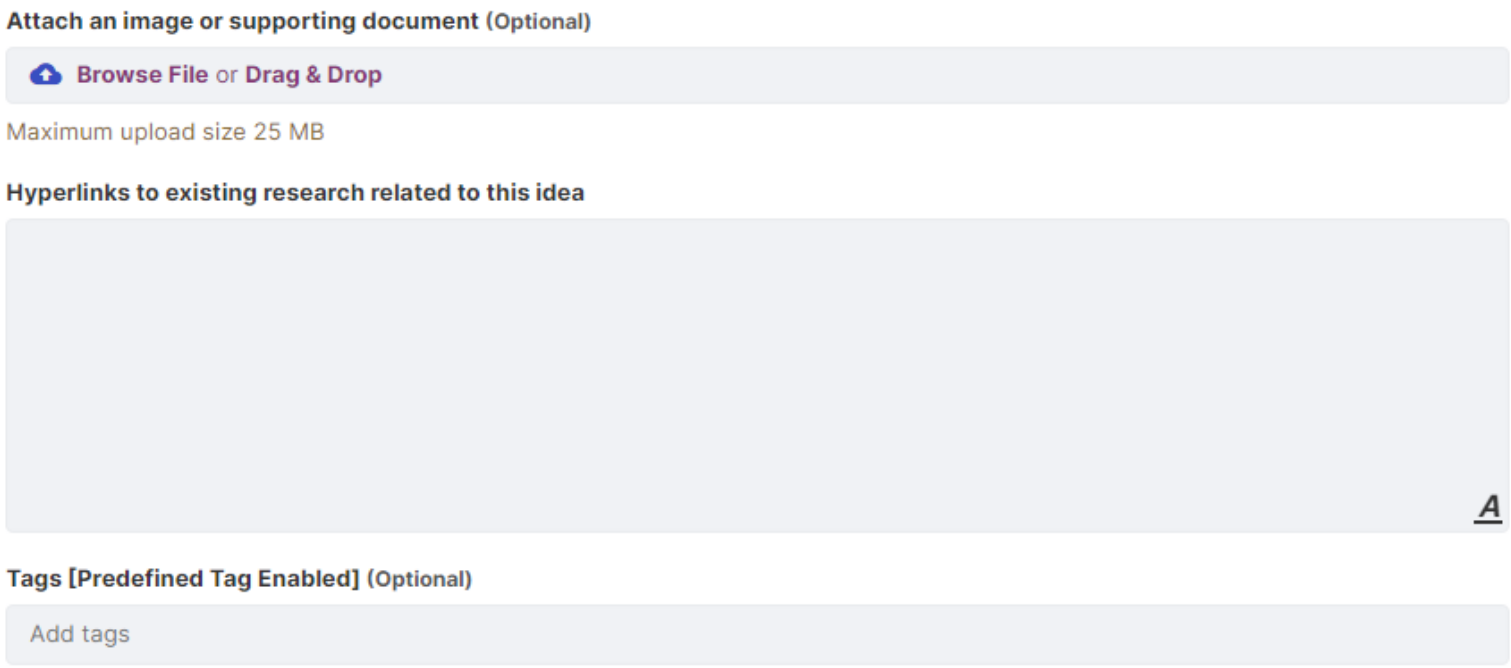


If you would like to provide additional information, you can use the ***optional*** fields at the bottom.

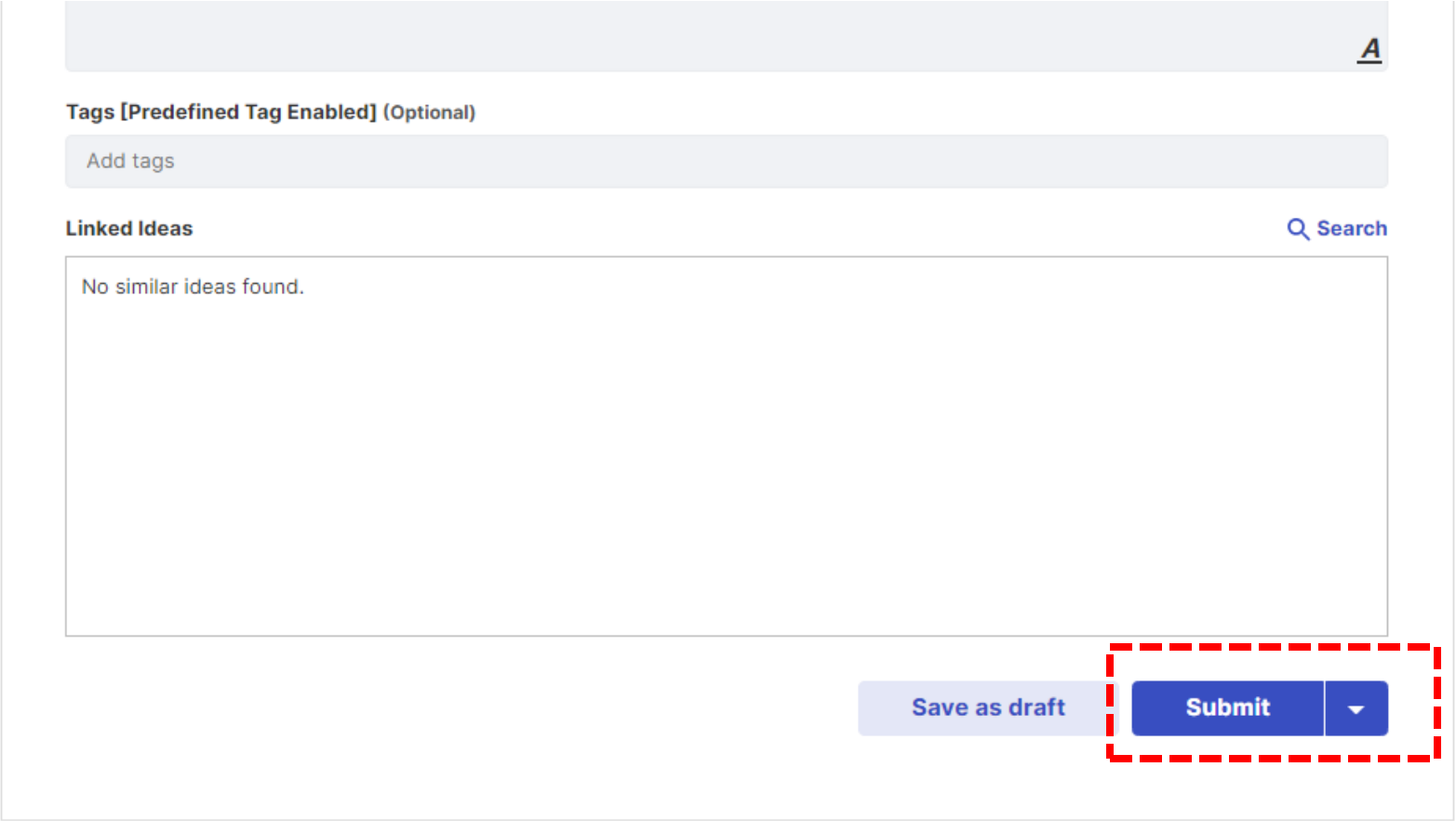
You can attach a file that adds to your Idea and its discussion.

You can also paste in URLs to publications and other supporting material.

You can add tags to your Idea to help others find it easier.

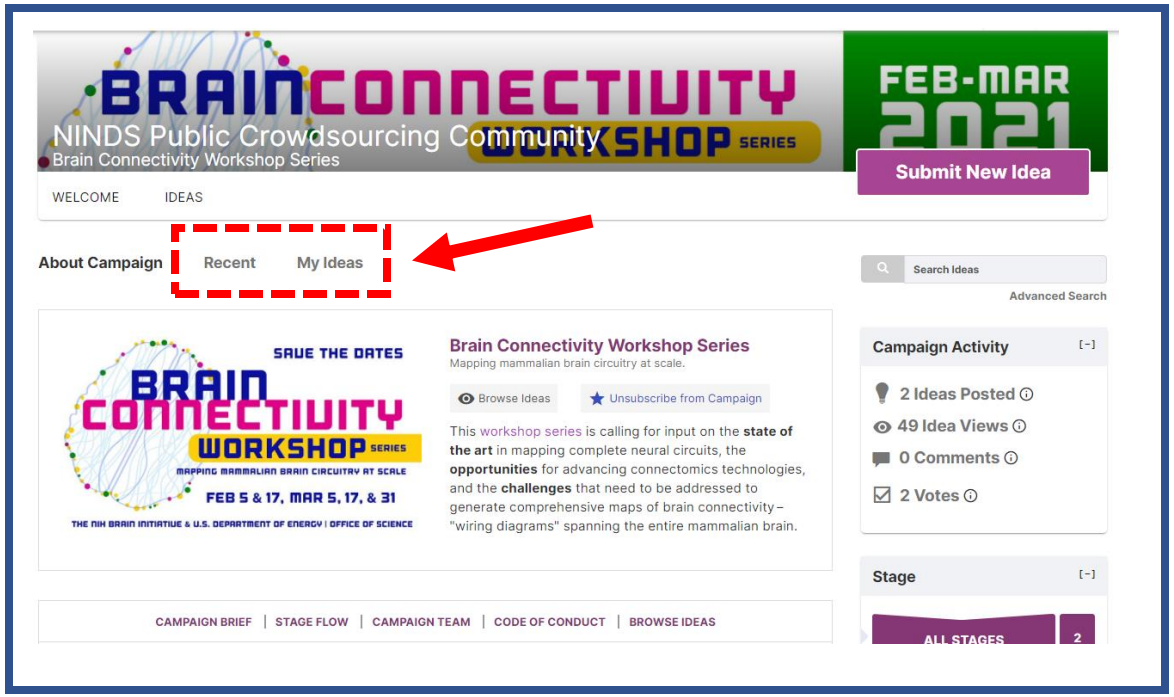


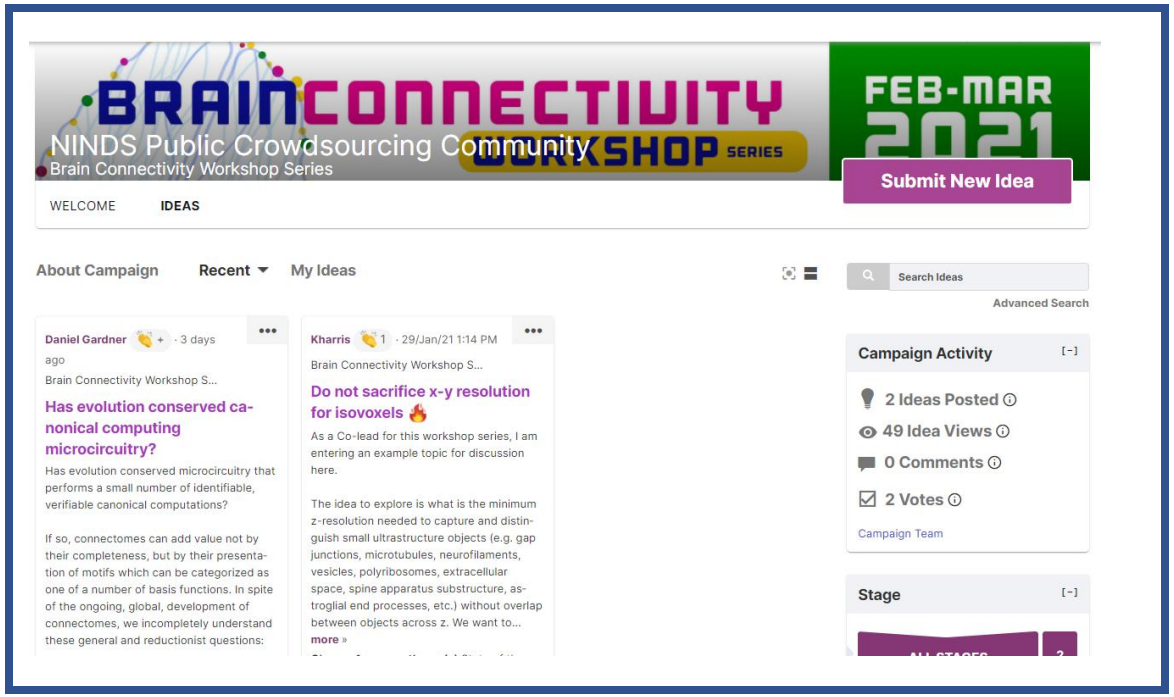
Complete your Idea submission by clicking the “Submit” button at the bottom of the form.



You can also “Save as a draft” and submit your Idea later.

Following approval by the moderators, your Idea will appear on the Workshop campaign page.





You can check these pages over the course of the Workshop Series to see the discussion unfold!

WELCOME IDEAS

Welcome to the NINDS Ideascale Community

NINDS wants to hear **your** ideas! Use this site to submit your ideas, add comments, and share your expertise on NINDS projects. We hope to hear from people from all backgrounds and perspectives to spur innovation and support our mission to reduce the burden of neurological disease. Explore the individual campaigns to see how **YOU** can contribute today!

Recent

Collaborative Tech for Epilepsy Surgery, Devices and Therapies

Parents driving precision therapies for genetic epilepsies

No Time to Spare: Re-envisioning ASM Selection in DEEs

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