

Activities and Conversations about Synthetic Biology

Data Collection Training for Public Evaluation Cohort

June 14, 2016 1:00 PM - 2:00 PM, EST



This presentation is based on work supported by the National Science Foundation under Grant No. 1421179. Any opinions, findings, and conclusions or recommendations expressed in this presentation are those of the authors and do not necessarily reflect the views of the Foundation.



Webinar Agenda

- The Building with Biology Project
- Evaluation Overview
- The Data Collector's Role (before, during, and after the event)
- Troubleshooting
- Questions



The Building with Biology Project



Building with Biology Project Overview

- Partnership of scientists and informal science educators
- Public engagement with science (PES)
- Addresses societal and ethical implications of synthetic biology
- 200 kits of hands-on activities and forums





Building with Biology Partners















Evaluation Overview



Evaluation Questions

What do adult members of the public...

...learn from the event?

...value about their participation?

How does participation impact interest...

...in synthetic biology?

...in public engagement with science?

...in future activities related to synthetic biology?

Public Evaluation Overview

- Focused on hands-on activities
- Evaluation cohort of 50 sites

If you weren't selected you can still use the resources







Poll



Evaluation Materials

- Evaluation of Public Impacts
 Data Collection Guidelines
- 20 Building with Biology Surveys
- Evaluation Surveys Envelope
- Passport Station sign & stand
- Graffiti board sign
- 25 Evaluation Information cards
- Pre-paid mailing envelope





Passport Activity and Survey

Data collection is embedded in a passport activity:

- Visitors of all ages may get passports
- At the end, adult visitors may fill out a survey



Graffiti Board

- Included in your kit
- You collect visitors' responses on sticky notes
- Make sure to use the sign we sent you





Your Evaluation Contact

Elizabeth Kollmann ekollmann@mos.org

Sarah Pfeifle spfeifle@mos.org

Katie Todd ktodd@mos.org







The Data Collector's Role



The Evaluation Data Collector

- 1. Complete human subjects training
- 2. Attend this webinar (or watch the recording and speak with your evaluation contact)
- 3. Watch data collection video
- 4. Collect data
- 5. Send data to the Evaluation Team



This person needs to devote his/her full attention to the evaluation.

Human Subjects Training

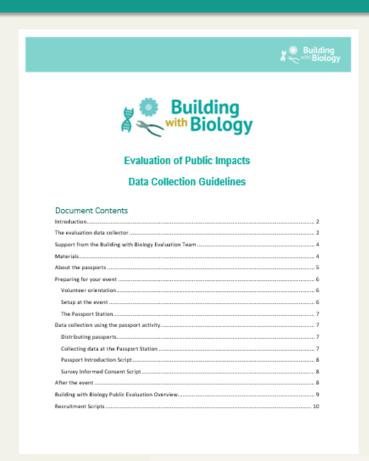
- Send certificates to <u>spfeifle@mos.org</u> at least 1 week before your event
- Existing certificates from NIH or CITI are fine
- To get a new certificate, take the free, 2 hour online course from NIH:

https://phrp.nihtraining.com/users/login.php

Everyone who collects data MUST have a human subjects training certificate on file.

Data Collection: Preparation

- Watch this webinar and the data collection video
- 2. Read Evaluation of Public Impacts Data Collection Guidelines
- 3. Fold passports (optional)





Poll



Data Collection: Volunteer Orientation

At your volunteer orientation:

- Train volunteers to stamp passports
- Identify someone to facilitate the graffiti board

Passports

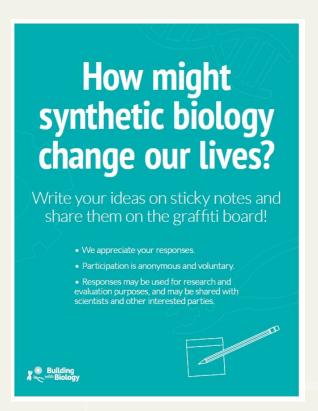
- Each facilitator will need to be prepared to stamp visitors' passports if guests ask them a question and/ or share what they think about synthetic biology.
- Facilitators who are scientists should wear "I'm a scientist" stickers at the event and should be ready to stamp passports if guests talk to them.
- The person at the graffiti board will need to stamp passports if a guest adds a post-it note to the graffiti board about how they think synthetic biology will change our lives in the future.





Data Collection: Setup for the Event

- Follow the Building with Biology Public Evaluation Overview
- Post the graffiti board
- Situate the Passport Station near entrance and exit
- Make sure the passport and graffiti board signs are clearly visible



Data Collection: Distributing Passports

- Use the Passport Introduction Script
- Offer passports to all visitors
- Ask adults to return for the survey, even if they don't take a passport



Recruitment Scripts

First interaction with visitors: When visitors approach the Passport Station, use the Passport Introduction Script to welcome visitors to the event, offer them a passport, and ask adults to come back to complete a survey when they're done.

Passport Introduction Script: Welcome to Building with Biology! This event is one of nearly 200 events across the country where you can try some activities and talk with scientists about the emerging field of synthetic biology. We have a passport activity that helps to guide your experience. You can use your passport to collect stamps for doing the different activities and talking to the scientists and volunteers. Would you like a passport today?

[If yes]: Great, thanks! Here you go. [Distribute passport] When you're done, if you come back to this station we would love your feedback about the event on a brief survey. We also have some fun prizes for you.

[If no]: No problem. I hope you enjoy the activities! When you're done, if you come back to this station we would love your feedback about the event on a brief survey. We also have some fun prizes for you.

Second interaction with visitors: When visitors return to the Passport Station at the end of their experience, invite all adult visitors (whether or not they used a passport) to complete the survey using the Survey Informed Consent Script. Offer temporary tattoos to all group members who would like them. The receipt of tattoos is NOT dependent on filling out a survey. After collecting a survey, fill in the header and store the survey in the Valuation Surveis Envelope.

Survey Informed Consent Script: Thanks for participating in the event today! Here's the survey! was telling you about earlier. Will you spend a few minutes to give us feedback about the event so we can improve our future programs?

[If yes] Thank you! [If no] Have a great day!

Consent signs: Please be sure to display the Passport Station sign at your table where you are collecting surveys, and the graffit board sign at your graffit board station. These signs include human subject protection and consent language that is required by this project's institutional Review Board.





Data Collection: Collecting Surveys

- Use the Survey
 Informed Consent Script
- Ask adults to complete the survey even if they didn't take a passport



Recruitment Scripts

First interaction with visitors: When visitors approach the Passport Station, use the Passport Introduction Script to welcome visitors to the event, offer them a passport, and ask adults to come back to complete a survey when they're done.

Passport Introduction Script: Welcome to Building with Biology! This event is one of nearly 200 events across the country where you can try some activities and talk with scientists about the emerging field of synthetic biology. We have a passport activity that helps to guide your experience. You can use your passport to collect stamps for doing the different activities and talking to the scientists and volunteers. Would you like a passport today?

[If yes]: Great, thanks! Here you go. [Distribute passport] When you're done, if you come back to this station we would love your feedback about the event on a brief survey. We also have some fun prizes for you.

[If no]: No problem. I hope you enjoy the activities! When you're done, if you come back to this station we would love your feedback about the event on a brief survey. We also have some fun prizes for you.

Second interaction with visitors: When visitors return to the Passport Station at the end of their experience, invite all adult visitors (whether or not they used a passport) to complete the survey using the Survey Informed Consent Script. Offer temporary tattoos to all group members who would like them. The receipt of tattoos is NOT dependent on filling out a survey. After collecting a survey, fill in the header and store the survey in the Evaluation Surveys Envelope.

Survey Informed Consent Script: Thanks for participating in the event today! Here's the survey I was telling you about earlier. Will you spend a few minutes to give us feedback about the event so we can improve our future programs?

[If yes] Thank you! [If no] Have a great day!

Consent signs: Please be sure to display the Passport Station sign at your table where you are collecting surveys, and the graffiti board sign at your graffiti board station. These signs include human subject protection and consent language that is required by this project's institutional Review Board.





Data Collection: Collecting Surveys

- Check surveys for completion
- Offer tattoos to all visitors, whether or not they take the survey
- Fill in survey header
- Store surveys in the Evaluation Surveys Envelope



The Survey Target Number

- Your kit has 20 surveys
- Fewer than 20 limits the strength of your report
- 20

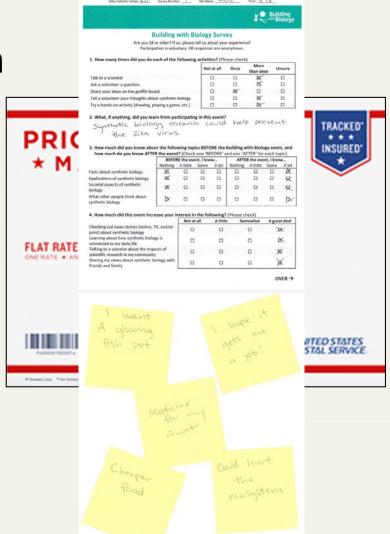
- You're welcome to collect more
- You can print additional copies at:

buildingwithbiology.org/project-evaluation

The more data you get, the more you know.

After the Event

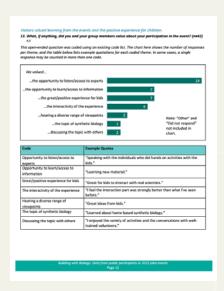
- Email <u>spfeifle@mos.org</u> with scans or clear photos of:
 - Completed surveys
 - Graffiti board responses
- Mail data to the Evaluation Team using the provided envelope



Reporting

- The Evaluation Team will prepare a report about the data you collect
- We will send you a report in fall/winter 2016
- We will also offer a webinar about the results from the overall evaluation





Questions?



Troubleshooting



Some people will say no. It's ok!

- Many people value giving feedback, so don't be afraid to ask.
- You're giving them an opportunity to share.



If they say no, just let them go.

Low Numbers

- Find a good location
- Split up passport distribution & surveys
- Tell adults about the survey at the beginning of the experience
- Clipboards offer mobility
- Prepare to ask



Your evaluation contact is happy to discuss your setup.

Forgetting What to Say

- Read the scripts before the event
- Practice!
- Consent is multi-faceted:
 - Verbal
 - Printed on sign
 - Printed on survey



Poll



Questions?



Video

The data collection video summarizes the process.



https://vimeo.com/169711008



Your Evaluation Contact

Elizabeth Kollmann ekollmann@mos.org

Sarah Pfeifle spfeifle@mos.org

Katie Todd ktodd@mos.org









This presentation is based on work supported by the National Science Foundation under Grant No. 1421179.

Any opinions, findings, and conclusions or recommendations expressed in this presentation are those of the authors and do not necessarily reflect the views of the Foundation.

