

# Thank you for supporting BioBuilderClub

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Photos from the  
Final Assembly

Page **2-4**

Outcome data

Page **5**

Some quotes  
and thanks

Page **6**



# BioBuilderClub 2017 – 2018

The BioBuilderClub engages high school teams around the world who combine engineering approaches and scientific know-how to design/build/test their own project ideas using synthetic biology.

Our rallying cry is "all you need is a good idea and we'll teach you the engineering to bring it to life."

We launched with a kickoff meeting in October, held monthly online group meetings, and provided a nationally recognized platform in March to exhibit projects at any stage of completion, from pitch to prototype.

Teams received the BioBuilder textbook, a kit of laboratory reagents, and support from remote scientist mentors.

At the Final Assembly, we celebrated team accomplishments as they presented their projects through e-posters, sharing their journey of discovery as part of BioBuilderClub.

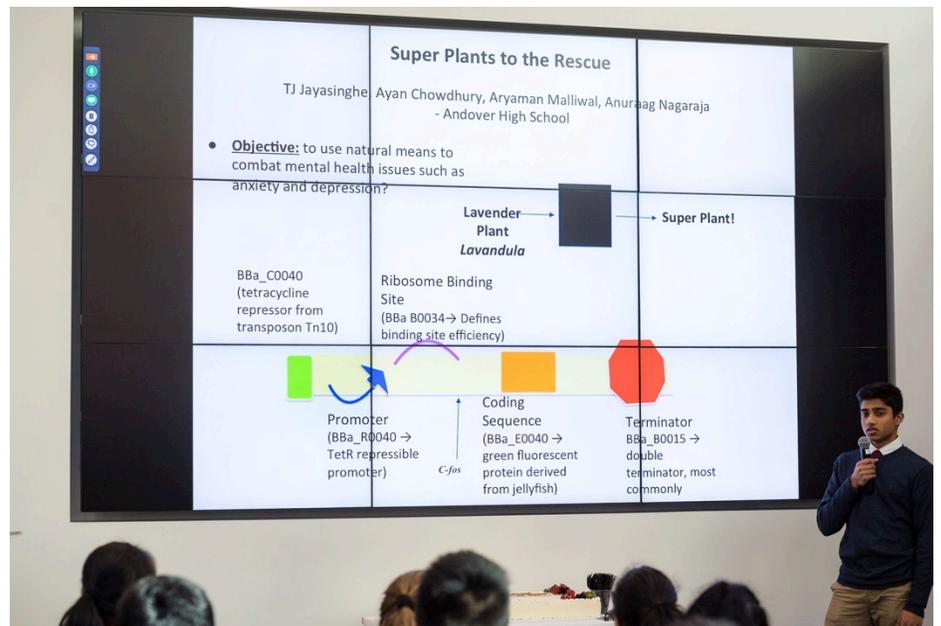
Thank you for your participation and support!

Natalie Kuldell, Founder & Executive Director  
BioBuilder Educational Foundation



# Final Assembly at LabCentral

March 15, 2018



Link to  
Presentation and  
Team Project  
Summaries:

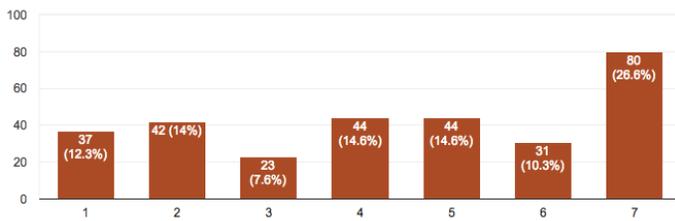
<https://drive.google.com/open?id=1vXSxtf19gVaUPkBh7SDugZusinDPD6Fd>

More photos from the celebration....

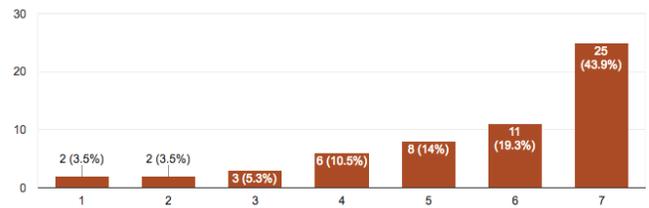


### Some PRE-program data

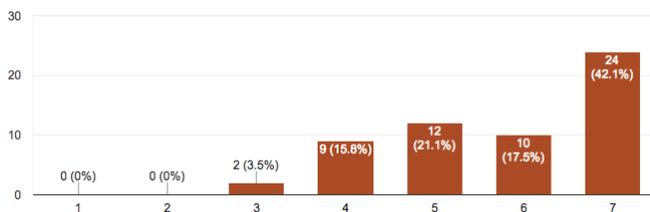
When students were asked if, in the last 6 months, they have been able to talk with others about their ideas for a science or engineering project. (Where 1 is "strongly disagree" and 7 is "strongly agree")



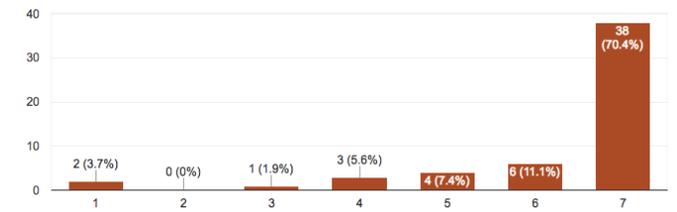
### Some POST-program data



When students were asked if they want to do more synthetic biology in the future. (Where 7 is "strongly agree")



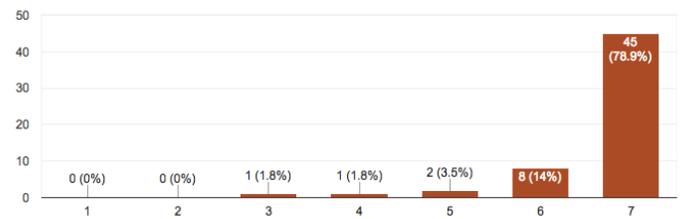
When students were asked if they want to pursue a career in STEM: Science, Technology, Engineering, Mathematics. (Where 7 is "strongly agree")



When students were asked to identify the 4 visuals below, the pre and post-program CORRECT results were as follows:

	PRE-program	POST-program
A. 	A. 42%	A. 77%
B. 	B. 31%	B. 60%
C. 	C. 33%	C. 58%
D. 	D. 21%	D. 49%

When students were asked if they have an interest in learning more about science and/or engineering. (Where 7 is "strongly agree")



### About BioBuilderClub Participants

5 local teams visited the BioBuilder Learning Lab in Cambridge, MA

100% of team leaders indicated that their students' familiarity with synthetic biology had increased since they joined BioBuilderClub.

Nearly all of the students, teachers, and mentors indicated interest to participate in BioBuilderClub again next year.

#### **34 teams**

2 international teams  
32 U.S. teams in 13 states

22 returning teams  
Over 300 student participants

Each team supported by a team leader (teacher)

24 volunteer scientist mentors paired with teams

**Student feedback:  
What is BioBuilderClub**

*“BioBuilderClub is a fun way to learn about synthetic biology and meet a ton of people who share your interests in science.”*

*“The experience is truly eye opening as you get to understand the intricate details that not only encompass life, but how to use them to combat systemic problems in our world.”*

*“BioBuilderClub is about using critical thinking to come up with new innovations....”*

**Team Leader feedback:**

*“It was the most wonderful and informative research project that I have ever participated in during my career as a science teacher. Both my students and I learned a lot from this BioBuilder project.”*



**BioBuilderClub**



**BioBuilder.org**

Lab | Central

