

## iGEM Survey

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What do you think synthetic biology is?

artificially creating biological entities

How would you define a GMO?

An organism whose genes were specifically selected through reproduction and altered or created

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

a previous internet search / immersion

Would you eat food that said it contained GMOs? If not, what are your concerns?

Yes

Do you think we have a problem with less production from farms because of recent weather trends?

I think farm production is at fine amount

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

yes, because an organism's dna is being modified artificially. I would say for mass production it would need to be called a GMO for legal reasons.

Please write any additional comments that you may have on the back!

## iGEM Survey

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What do you think synthetic biology is?

Based on my knowledge from a biotech class, I would say that synthetic biology uses old practices in the biotech field and improves upon the methods used to manipulate organisms for our benefit.

How would you define a GMO?

I would define it as an organism that has been modified at the cellular level to create a desired result.

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

My experience in a biotech classroom enabled me to respond to the questions.

Would you eat food that said it contained GMOs? If not, what are your concerns?

I would not consume such foods unless I feel that research and testing on the food in question gave me the satisfaction that they were safe.

Do you think we have a problem with less production from farms because of recent weather trends?

Yes and No. With the increased volatility of our climate, I do feel that it is a problem, however I understand that advancements in science are helping to remedy the

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

After hearing about the project: evaluating based on my personal knowledge, I believe it should be labeled as a GMO. The reason being most people are not educated about the technology: in an effort to avoid legal problems, telling people what it is would be necessary.

Please write any additional comments that you may have on the back!

## iGEM Survey

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What do you think synthetic biology is?

I really don't know but if I had to guess, I would assume that synthetic biology involves biotechnology and the manipulating of genes.

How would you define a GMO?

Anything that has been genetically modified whether its through selective breeding or direct gene modification such as CRISPR. Foreign DNA introduced or deletion, insertion, substitution of a gene.

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

I am more familiar with GMO because both my parents work as researchers in that field but the synthetic biology is a random guess.

Would you eat food that said it contained GMOs? If not, what are your concerns?

Yes definitely, because I know the process, know that it's safe and know how GMOs can be helpful. My parents have given me food with GMOs that they made and I know they wouldn't give me something unless they knew it was safe.

Do you think we have a problem with less production from farms because of recent weather trends?

Yes, with more natural disasters such as tornadoes and hurricanes, crops can be destroyed and with more extreme climates it makes it harder for plants to adapt therefore less production.

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

I think that legally, it could be considered not GMO since the genes in the plant itself are not being manipulated rather a hormone will be released affecting the plant growth and adaptability to a hotter environment.

Please write any additional comments that you may have on the back!

## iGEM Survey

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What do you think synthetic biology is?

biology that incorporates modern technology to modify organic systems.  
(combining synthetic (tech) with biological systems.)

How would you define a GMO?

A Gmo is an organism that includes foreign genes to change the organism.

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

I ~~learned what~~ have a basic idea of what a Gmo is, but I did take an educated guess.

Would you eat food that said it contained GMOs? If not, what are your concerns?

I would. GMO doesn't always mean bionic oranges or drastically altered organisms, but simply changing the way the crop grows & reproduces to make agriculture more efficient.

Do you think we have a problem with less production from farms because of recent weather trends?

We have less production on farms b/c of industry. Farmers are very important & so is farming, yet agriculture is something not ~~as~~ heavily funded or emphasized.

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

I don't think the plants would <sup>be</sup> labeled as GMO. The modified bacteria <sup>do</sup> need to <sup>be</sup> labeled as GMO. The modified bacteria would simply alter the environment around the plants.

Please write any additional comments that you may have on the back!

1) What do you think synthetic biology is?  
It is how scientists try to change DNA  
for a certain purpose

2) How would you define GMO?  
A GMO is when an organism is genetically  
modified.

3) Where did your answers to the previous  
questions come from? Did you learn it from  
prior knowledge or guess? prior knowledge

4) Would you eat food that is GMO?  
No because I don't know that much  
about how safe it is?

5) Do you think we....  
I have no idea.

6) Listen to our project idea  
yeah, and they should

## iGEM Survey

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What do you think synthetic biology is?

synthetic biology isn't something I have a good concept of but I think it involves the creation of biological systems using synthetic materials.

How would you define a GMO?

A GMO is any organism where humans have intervened in natural processes to change the genes of an organism whether through breeding or something more direct like CRISPR/cas9

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

Some of this comes from classroom knowledge but also from outside resources like articles that someone recommends I read.

Would you eat food that said it contained GMOs? If not, what are your concerns?

~~No~~ Yes I would because its totally unavoidable or mostly unavoidable. ~~but I don't~~

Do you think we have a problem with less production from farms because of recent weather trends?

yes, rising temperatures and unpredictable weather patterns impact crops and livestock

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

The bacteria is definitely a GMO but I wouldn't consider the plants to be a GMO.

Please write any additional comments that you may have on the back!

4/20/19

## iGEM Survey

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What do you think synthetic biology is?

Biological processes, but created through man made processes, not natural processes.

How would you define a GMO?

A genetically modified organism, more specifically an organism that has had their genetics altered with in order to perform a certain way.

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

The very term from society, the brief explanation is a result of a guess based off of the words and terms I understand.

Would you eat food that said it contained GMOs? If not, what are your concerns?

I would, as long as I know the impact on my health as a result of the GMO.

Do you think we have a problem with less production from farms because of recent weather trends?

I think there is as a result of rapidly growing climate change, which would be a problem as the population is growing and the earth doesn't have enough resource to support the growing pop.

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

Yes, I do, and I would also label it as a GMO.

Please write any additional comments that you may have on the back!



## iGEM Survey

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What do you think synthetic biology is?

~~Any organism~~ Biological processes that are altered or created by humans that don't occur in nature.

How would you define a GMO?

Any organism that has been intentionally genetically modified

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

Based off of classroom knowledge

Would you eat food that said it contained GMOs? If not, what are your concerns?

Yes, as long as it is known that consuming the product wouldn't negatively affect my health.

Do you think we have a problem with less production from farms because of recent weather trends?

Yes, the longer droughts and unpredictable rain make crop production difficult

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

Yes, the project is a GMO ~~is classified as~~ and should be classified as so.

Please write any additional comments that you may have on the back!



## iGEM Survey

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What do you think synthetic biology is?

Synthetic biology is the construct of biological mechanisms.

Using modern biology to modify organic systems

How would you define a GMO?

Genetically modified organism

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

They come from a previous google search

Would you eat food that said it contained GMOs? If not, what are your concerns?

~~Yes~~

Yes

Do you think we have a problem with less production from farms because of recent weather trends?

~~No~~ No

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

~~Yes~~

Yes because it is going into the DNA

Please write any additional comments that you may have on the back!

## iGEM Survey

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What do you think synthetic biology is?

Synthetic biology is creating new DNA and inserting it into an existing DNA set.

How would you define a GMO?

Genetically Modified Organism

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

Google Search two nights ago and school and parents.

Would you eat food that said it contained GMOs? If not, what are your concerns?

Yes

Do you think we have a problem with less production from farms because of recent weather trends?

No

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

Yeah but I'm a simple minded and very fired fellow. I might need more time to mull over this.

Please write any additional comments that you may have on the back!

## iGEM Survey

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What do you think synthetic biology is?

Synthetic biology is changing a plasmid's DNA to do something that it does not originally do.

How would you define a GMO?

GMOs are genetically modified organisms, that have been changed to contain more benefits and to fit certain characteristics.

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

I learned it from google searches.

Would you eat food that said it contained GMOs? If not, what are your concerns?

Yes.

Do you think we have a problem with less production from farms because of recent weather trends?

Yes, some weather trends could affect animals that aren't able to regulate their body temperatures in any conditions.

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

I think the plants would need to be labeled as GMO because your project involves changing a part of the DNA to modify its reactions to the environment.

Please write any additional comments that you may have on the back!

## iGEM Survey

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What do you think synthetic biology is?

Synthetic biology is the study of life processes with a twist of genetics.

How would you define a GMO?

I'm not sure what a GMO is exactly but I know it's in our foods. it's a genetically modified organism.

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

Based off of my own knowledge

Would you eat food that said it contained GMOs? If not, what are your concerns?

Yes, I would eat those foods.

Do you think we have a problem with less production from farms because of recent weather trends?

Yes, we most likely do.

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

Yes, it is a GMO and will probably need to be labeled as well.

Please write any additional comments that you may have on the back!

## iGEM Survey

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What do you think synthetic biology is?

I think synthetic biology is "programming" biological processes or organisms to act predictably, like machines do.

How would you define a GMO?

A GMO is a genetically modified organism or an organism that is genetically modified to be more beneficial.

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

Part of it - re from class and part is from my personal knowledge from research online

Would you eat food that said it contained GMOs? If not, what are your concerns?

Yes, humans have been ~~selecting~~ selecting for beneficial traits in organisms for thousands of years, subsequently changing the gene pool. GMOs, if done safely and properly, can be extremely efficient and advantageous.

Do you think we have a problem with less production from farms because of recent weather trends?

Yes, global warming and its effect on weather patterns is drastically changing food production worldwide.

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

Yes, it is a GMO and the plants would need to be labeled. I believe that the plant and its ecosystem should soon be included for whether or not it is GMO.

Please write any additional comments that you may have on the back!

## iGEM Survey

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What do you think synthetic biology is?

creating biotic materials in a way other than how they are naturally synthesized

How would you define a GMO?

An organism whose genetic code has been altered in some way, such as CRISPR or selection breeding

not answered  
plant?

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

based off classroom knowledge

Would you eat food that said it contained GMOs? If not, what are your concerns?

Yes! Just because an organism is edited doesn't mean it is unsafe.  
Much of what we eat is organisms bred in a lab, not naturally found,  
and GMO's that are released now go through rigorous study to ensure  
safety.

Do you think we have a problem with less production from farms because of recent weather trends?

Yes, there is an issue to keep up w/ produce demands, especially in California

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

I think the bacterium is definitely a GMO, but because the plant's  
DNA itself is not modified, the plant would not need to be labeled as a  
GMO.

Please write any additional comments that you may have on the back!

## iGEM Survey

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What do you think synthetic biology is?

I believe synthetic biology is combining areas of biology and engineering to modify components of biology like DNA to achieve a certain outcome or process ~~that~~

How would you define a GMO?

A GMO is any organism that's DNA or natural construction has been altered by adding or removing genes to maintain or achieve a certain effect.

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

They came from a combination of in class learning as well as from articles and news I see on social media.

Would you eat food that said it contained GMOs? If not, what are your concerns?

It depends mostly. Many of the times GMOs are used to preserve color, shape, or size and nothing with the actual flavor. In this case I would opt for more organic versions. If it has been modified for things like preservation, I would eat it because I would be

Do you think we have a problem with less production from farms because of recent weather trends? doing myself  
Yes and no. In some areas with drought YES, however a few. Finally, if I know it is harmful then I will not eat it.  
Some areas have yet to be affected.

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

Yes I do believe your project is a GMO. Simply said, you altering the natural behavior of this plant to meet the needs of the new changes in climate. For this, I do believe it should be labeled as a GMO. But that is NOT a bad thing :)

Please write any additional comments that you may have on the back!



This is a super awesome project. Thank you for sharing.  
Good Luck!

## iGEM Survey

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What do you think synthetic biology is?

I think synthetic biology incorporates engineering principles and man-made systems into natural biological systems.

How would you define a GMO?

A GMO is a genetically modified organism that has had a specific gene modified, changed, or deleted.

Where did your answers to the previous questions come from? Did you learn it in class, based off of out of classroom knowledge, or random guess?

I have heard of GMOs from school, but I have also read up on several articles that were provided by Dr. Beason. However, I am not very informed on the subject, so I may be wrong.

Would you eat food that said it contained GMOs? If not, what are your concerns?

Yes. I believe a lot of the foods that we eat today have already been genetically modified.

Do you think we have a problem with less production from farms because of recent weather trends?

I believe less production is linked to more than just recent weather trends. The population of Earth is increasing exponentially, and that leads to the need for more living space and food.

Listening to our project idea, do you think our project is a GMO? Would the plants be needed to be labeled as GMO?

Yes (to both questions)

Please write any additional comments that you may have on the back!

I love how you all keep up with research!  
I find research extremely valuable.