

< Team Page

Judging Feedback

Judges Comments

Judge 1



Positive Feedback

You have worked on a relevant project for the whole world. Your parts were described in great detail. This is a great example for future iGEM teams to build further upon. The scientific background is very clear. You explained the chassis choice very clear, integrating native proteins into your system. You also considered different conditions for your bioreactos. Your results were analyzed with great details. I am very impressed by the large ammount of DBTL cycles as well.

Constructive Feedback

Your hardware system could have been explained in more detail. I would have liked to see a clearer description on how you integrated feedback from experts in your experimental setup.



Positive Feedback

Very nice design of the wiki and the presentation! You have also used a very innovative approach using electrical impulses in a chain reaction to degrade PET. It combines different molecular methods such as the Cre-LoxP system, the kill switch and the development of a fusion enzyme, which could be useful in different applications besides environmental problems. The planned future applications are also very well thought out and described in detail, which makes the project feasible. Impressively, you have done a lot of human practice and integrated it into your decision making at various stages. This is an important aspect of iGem! Also, you all know what you have done and why you have done it, which shows your great commitment to this project. Great! Please keep up the good work on this promising project!

Constructive Feedback

There is hardly anything to criticise in your project. However, it would have been good if you had been more transparent about your failures. It is always good to show this, as future iGem teams working with your project will make the same "mistakes" or encounter the same problems. It would also help to understand why you chose certain steps, organisms or molecules to make it work.

Judge 3

Positive Feedback

This was a truly impressive project! You have a well-engineered solution to a global problem. Great description of the more detailed aspects of material recycling. You accomplished a significant amount in the lab, and everything was clearly presented and well documented. The modeling efforts were excellent, and the generation of variants/mutants in silico was a great addition to your project. Human Practices work stood out for it's thoroughness and engagement of a diverse array of stakeholders, and clear articulation of/reflection on what was learned from each interaction. Summary graphic on the HP page was also helpful in tying the various aspects of your project together.

Constructive Feedback

Overall, your documentation of your parts in the registry is very well done. Based on all your work, these parts have the potential to be useful to other teams, and if you were able



Judge 4

Positive Feedback

The iGEM Waseda-Tokyo team's Wiki showcases an impressive breadth and depth of work, clearly highlighting the large scope of their project and the extensive efforts involved. The range of activities, from gene circuit modeling to protein simulation, biosafety measures, hardware development, and human practices, demonstrates a highly multidisciplinary approach. The integration of machine learning for protein evolution and in silico screening shows cutting-edge innovation, and the team's extensive experimental work to validate their designs is commendable. Their focus on public engagement through human practices, especially with innovative approaches like the VTuber live stream, indicates a strong commitment to making science accessible. The overall structure of the Wiki is logical and organized, making it easy to follow each component of the project. This is an outstanding example of an ambitious iGEM project that not only tackles real-world challenges but also pushes the boundaries of synthetic biology research through creative solutions and thorough experimentation.

Constructive Feedback

While the Wiki is comprehensive, certain sections could benefit from additional clarity and focus. In the modeling pages, for example, some of the equations and technical details may be difficult for non-experts to follow. Adding more visual aids or simplifying explanations could make the content more accessible to a wider audience. Additionally, the results from the various experiments and simulations, while extensive, could be better summarized at the end of each section, with key takeaways highlighted more explicitly. In some cases, the outcomes of the work (such as the limitations faced in experiments) could be discussed in more depth to show how the team plans to address these challenges in future iterations. Lastly, while the human practices and outreach are well-integrated, expanding on how the public feedback specifically influenced project decisions could further strengthen this section. Overall, more attention to accessibility and summarization would enhance the presentation of the team's impressive achievements.

Judge 5



Positive Feedback

it is a well thought and well-designed project the team is active and we feel the team spirit, already before entering the room Answers to questions are mostly well-formulated



Constructive Feedback

- it's is an excellent project, but you lack a bit of long-term vision and implementation to score at the highest scale. - It is always important to think from start at what you want at the 'real scale' when you start a project. the product-fit is the most important step. It's ok not to have time to test everything as you only have a year, but you can expand your vision by some calculations! - when you answer questions: it is great to have support slides, but it's usually not needed. Jurors can understand without visual support if you explain well. It removes stress from you while you try to find the right slide, and doesn't disturb the jurors who are checking what you wanna show.

Judge 6

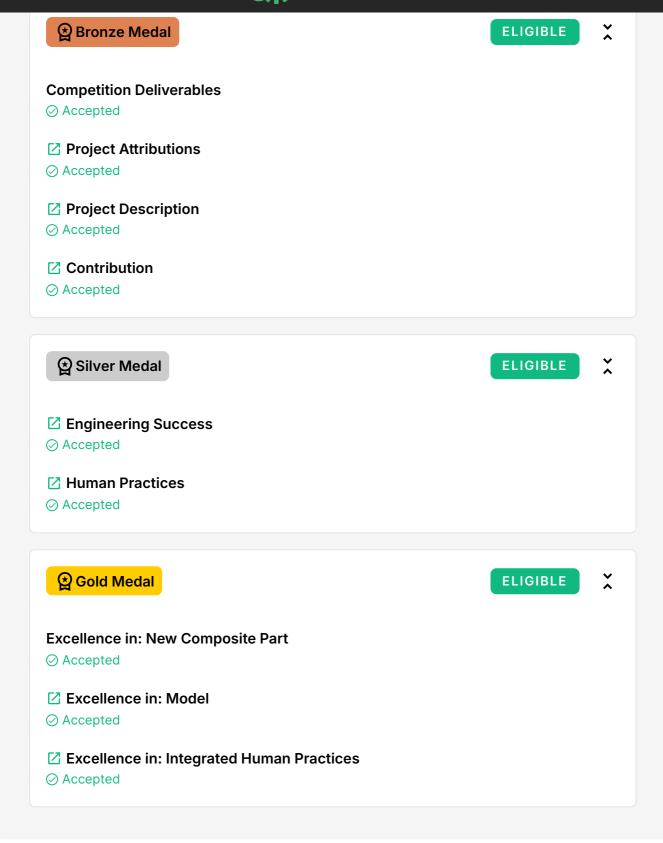
Positive Feedback

I am very impressed by your project. The way you arranged your design and model was thoughtfully and easy to follow. You went great lengths and performed several impressive models that were transparent and usable for future teams. Even tough it is hard to summarize all the work in a 15 min presentation, it was easy to follow and informative. The Human Practice effort was thoughtful and detailed. I loved the modular approach of you design! You also did a great job in the judging session. Your team spirit is outstanding and you seemed to enjoy the challenge and experience. Your explaination was very clear. I loved how you interpreted your wet lab data and looked at it from several different angles. Good transperancy of potential weak data and nice proposals of how do improve. Good job everyone, overall a really impressive project and best of luck for your future in synbio!

Constructive Feedback

I would have liked some insights into the way you processed your raw data, so the axes of your plots are more meaningful. The same goes for some measurements, for example: The way you performed the gravimetric measurements of your PET pellets. Were they dried after the catalysis? What was the posttreatment? Another point that was missing for me was your outlook. What specifically would you change in your design for the next engineering cycle? What would be experiments that would fix some issues?





Details of the votes

The tables below present the actual number of votes by the judges. They are provided to help you understand how the judges interpreted your project. Each



Project						*
How impressive is t	this project?					
				2	4	
Did the project wor	k or is it likely	to work?				
			2	3	1	
			_		•	
Is the project likely	to have an im	pact?				
			1	4	1	
How well were eng modularity, etc)?	ineering princi	ples used (e.g.	, design-build-te	est cycle, use of	standards,	
			1	2	3	
How thoughtful and	d thorough wa	s the team's co	onsideration of h	uman practices	?	
			1	3	2	
How much of the w	vork did the te	am do themsel	ves and how mu	ch was done by	others?	
Did the team desig		sed on synthet	ic biology and st	andard compon	ents	
				5	1	
Are the project combe documented in t			n the team's wik	i/Registry pages	s (parts show	uld
How competent wa	as the team at	answering judg	ge questions?			
			2		4	

Wiki

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How well does the wiki communicate the team's project and their goals?



experimental e	evidence?				
					6
Door the desig	an of the w	iki support visito	re in finding and	understanding t	ha aantant?
oes the desig	gii oi tile w	iki support visito		understanding t	ne content?
		1	1	3	1
Will the wiki be	e a compell	ing record of the	team's project	for future teams?	
			1	4	1
	_	text, images, and erly referenced a		iGEM teams and	l other research
			1	3	2
Presentatio	on				
		mmunicate their	project goals, d	esign, and result	s with convincing
How well did tl		mmunicate their	project goals, d	esign, and result	s with convincing
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Integrated Human Practices

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How inspiring an e	xample is it to	others?					
				5	1		
To what extent is t	he Human Pra	actices work do	cumented so tha	at others can bu	ild upon it?		
			3	3			
How thoughtfully was it implemented? How well did they explain the context, rationale, and prior work?							
			1	5			
How well did it inco	orporate diffe	rent stakeholde	r views?				
			1	4	1		
To what extent did project that is resp				es activities help	ed create a		
				4	2		
Model					*		
Model How impressive is	the modeling	?			*		
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How does the documentation on the Registry compare to BBa_K404122 and BBa_K863005?

New Composite Part



Did the team show the part works as expected (modeling data can be acceptable)?

2

4

Is it useful to the community?

3

3

How well characterized (experimentally measured or modeled) is this Composite Part?

2

4





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Jamboree

2023 Grand Jamboree

2023 Photos

2023 Videos

2022 Grand Jamboree

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