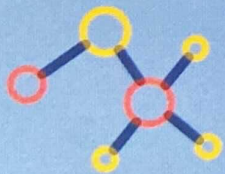
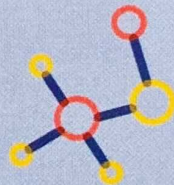
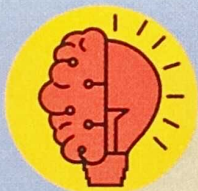


At iGEM memes, we want to see social media and humour as a part of the iGEM spirit and community. Make sure to get in touch with us on Facebook or Instagram if you want to share your love for memes or collaborate in some other way!

Instagram: @igem_memes



WATERLOO*i*GEM



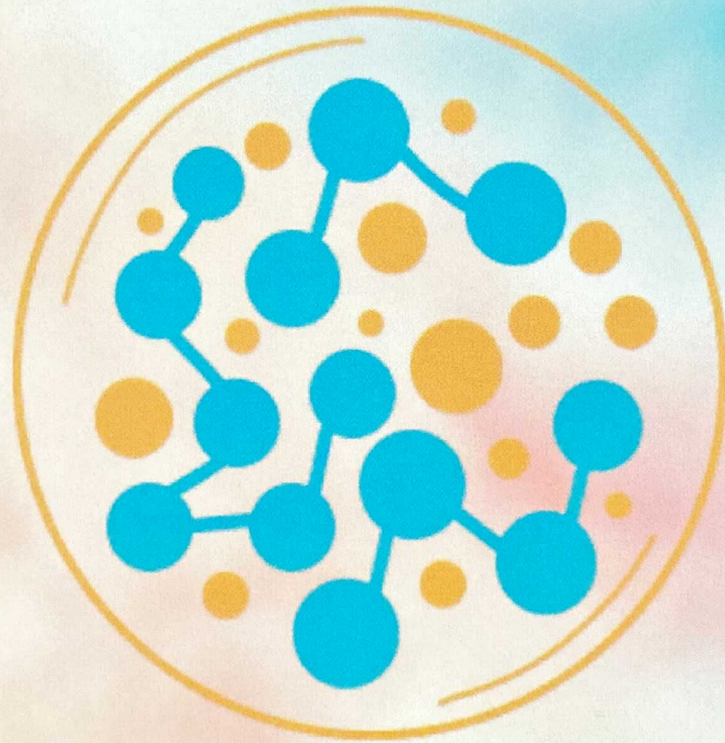
Waterloo iGEM 2021

NeuroDetech

Attention-Deficit/Hyperactivity Disorder (ADHD) is a neurodevelopmental disorder characterized by inattentiveness, an inability to focus and restlessness. Current ADHD diagnosis procedures require a series of psychological assessments that are qualitative in nature, thus diagnoses are subject to clinician bias. Waterloo iGEM's 2021 project NeuroDetech aims to create a quantitative tool to aid the diagnosis of ADHD and reduce the margin of bias.



uwigem@gmail.com | <https://igem.uwaterloo.ca/>

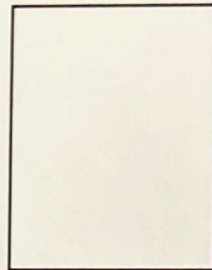


Communique

Dear iGEM team,
Wishing you the best of
of luck in this iGEM
season! - **iGEM TAU**

Communique is a software
which can optimize genes for
specific bacteria species within
a microbiome, while
deoptimizing the same gene
for other species. This will
allow selective and safe
engineering of microbiomes,
while avoiding the risks
associated with horizontal
gene transfer.

igem.tau.21@gmail.com | Instagram: @igem_tau | Twitter: @iGEM_TAU



ARSENITO

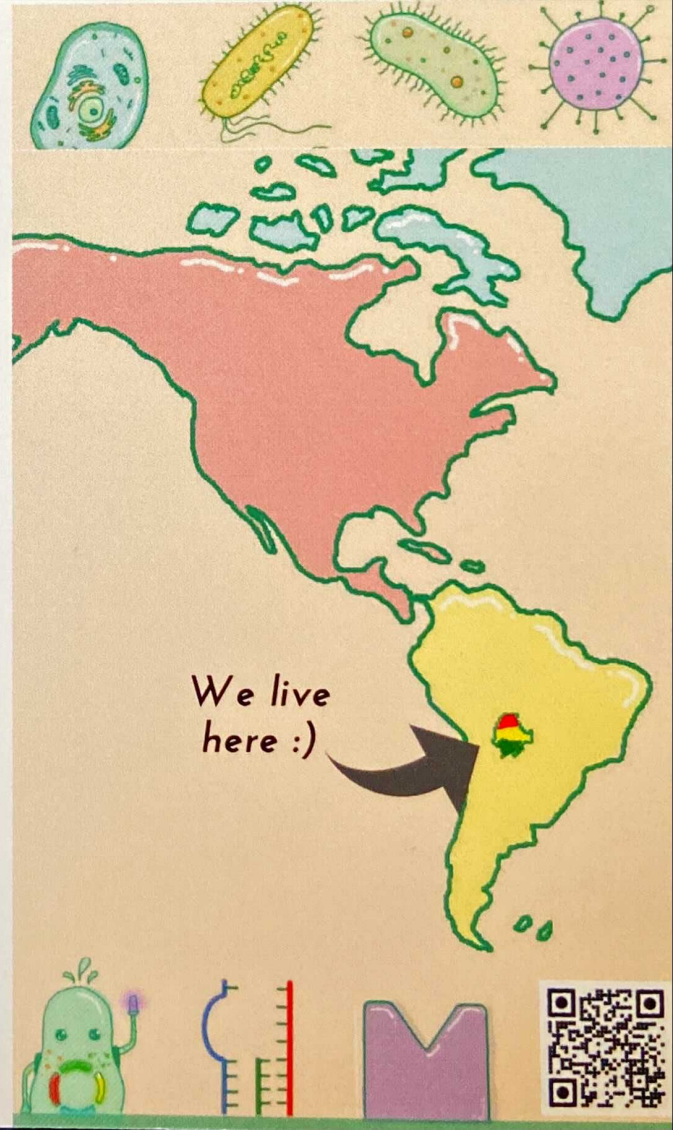


Bacteria without OUR circuit

As Unrecognized



The iGEM Bolivia team has more than one hundred members from all over the country as this is our first competition. We are developing a biosensor for arsenic (As) detection because elevated levels of this element in natural resources is a major contributor to environmental problems in Bolivia. Recent Reports indicate that some water sources for human consumption have As levels as high as nearly $250 \mu\text{g/L}$.







It's a pretty picture, right? Weird to think that behind those pretty colours lies a threat far more dangerous than we realize. On this petri dish was grown E.coli resistant to kanamycin. 700,000 people die each year due to antimicrobial resistance. It is estimated that by 2050 this number will rise to 10 million.

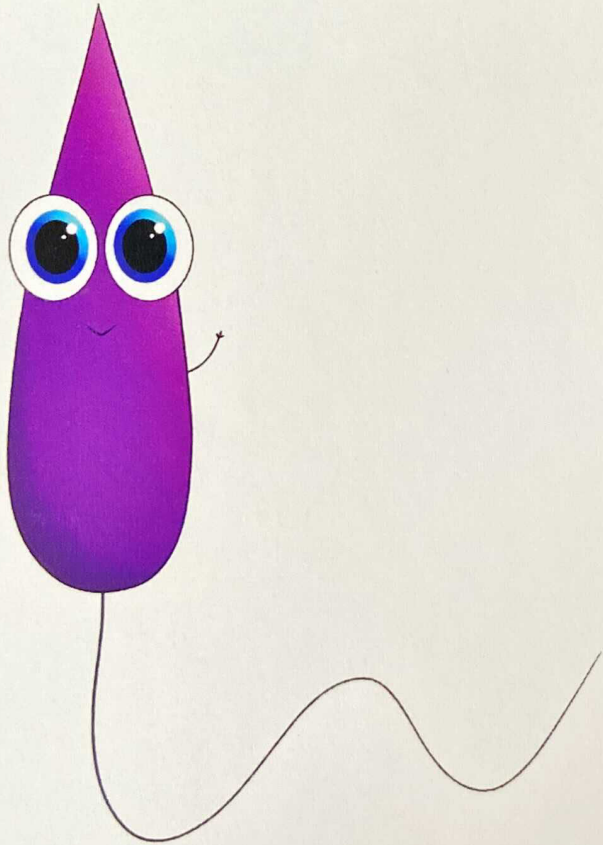
That is why this year our team has chosen to tackle this issue by developing a new fast and cheap diagnostic protocol that allows the testing of a bacterial population within a given geographic area.

We look forward to presenting our project and meeting you all this year at the Giant Jamboree.

Best of luck,

iGEM Bulgaria





Hello fellow iGem teams!

We are the iGem team of TU Kaiserslautern from Germany. Our goal for the iGem competition is to create a modular cloning library for *Leishmania tarentolae*. Why leishmania? The reason is quite simple! Unlike *E. coli*, leishmania have posttranslational protein modification similar to humans, so they can produce different and more proteins, especially for pharmaceutical purposes. If you want to know more about our project, have a look at our Instagram: @igem.kaiserslautern

Hope to see you at the Giant Jamboree!

dNTPS AND

POLYMERASE

DESIGN

ADAPTED
ADAPTED
ADAPTED
ADAPTED
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ENZYMATIC

AUGMENTING


THROUGH

Hello iGEMers!

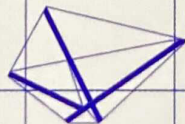
We are iGEM Athens 2021 and this year we are working on the project **AdAPTED: Augmenting dNTPS And Polymerase Through Enzymatic Design**. We are building a genetic circuit to overexpress the enzymes responsible for the *de novo* production of dNTPs along with a thermostable polymerase. This way we hope to enable the easy, affordable, sustainable and decentralized production of these reagents. Our goal is to enhance the production of the the main components of nucleic acid amplification techniques, so that they can be performed promptly and efficiently in a future emergency.

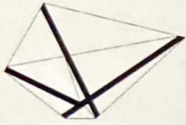


Good luck with your projects!
Looking forward to meeting you :)



antibyeotic.





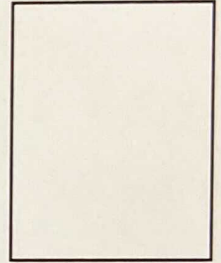
iGEM IOANNINA

iGEM Team IOANNINA

ANTIBYEOTIC

We eat the antibiotics
We decompose them
We **die**
And byeee

Instagram: @igemioannina



Greetings from

PACCCOLI

Land of Clean Water



Hello from the 2021 Stony Brook University iGEM team!

We are working to develop a novel water filtration system that utilizes genetically engineered E. coli to breakdown toxins from harmful algal blooms.

Learn more and contact us!

www.linktr.ee/sbuigem2021

E-Mail: igem@stonybrook.edu

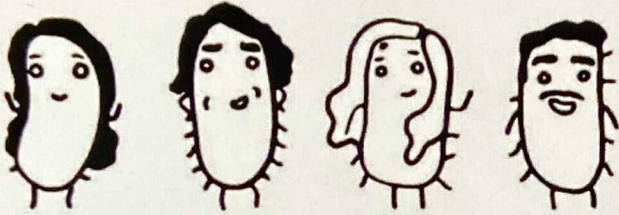
Instagram: [@igem.stonybrook](https://www.instagram.com/igem.stonybrook)

TikTok: [@sbu.igem](https://www.tiktok.com/@sbu.igem)

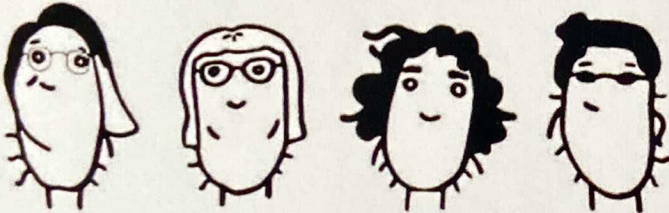


CHRONO
BACTER

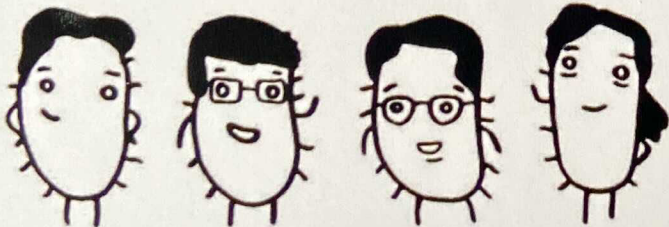
Ysis Alonso Jime Marco



Andrea Mariana Cami Josué

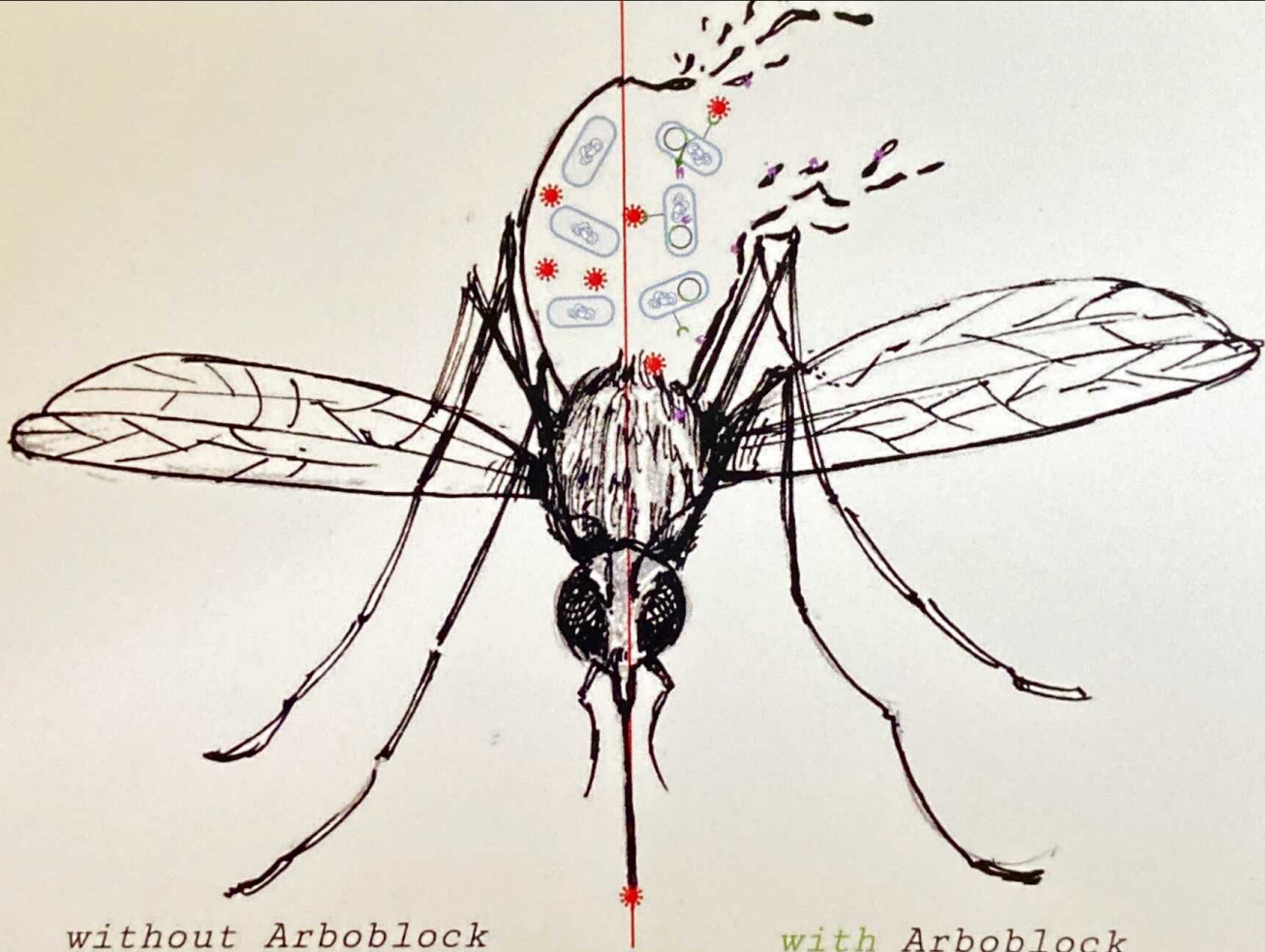


Jose Johan Tavo David



About our project

Inspired by the endless possibilities synthetic biology entails, we decided to approach its real life limitations as inspiration for our project. Our objective is to pursue an incipient focus on genetic circuit development based on sequential logic, entailing a whole new set of functions and expanding the possible applications for engineered organisms.



without Arboblock

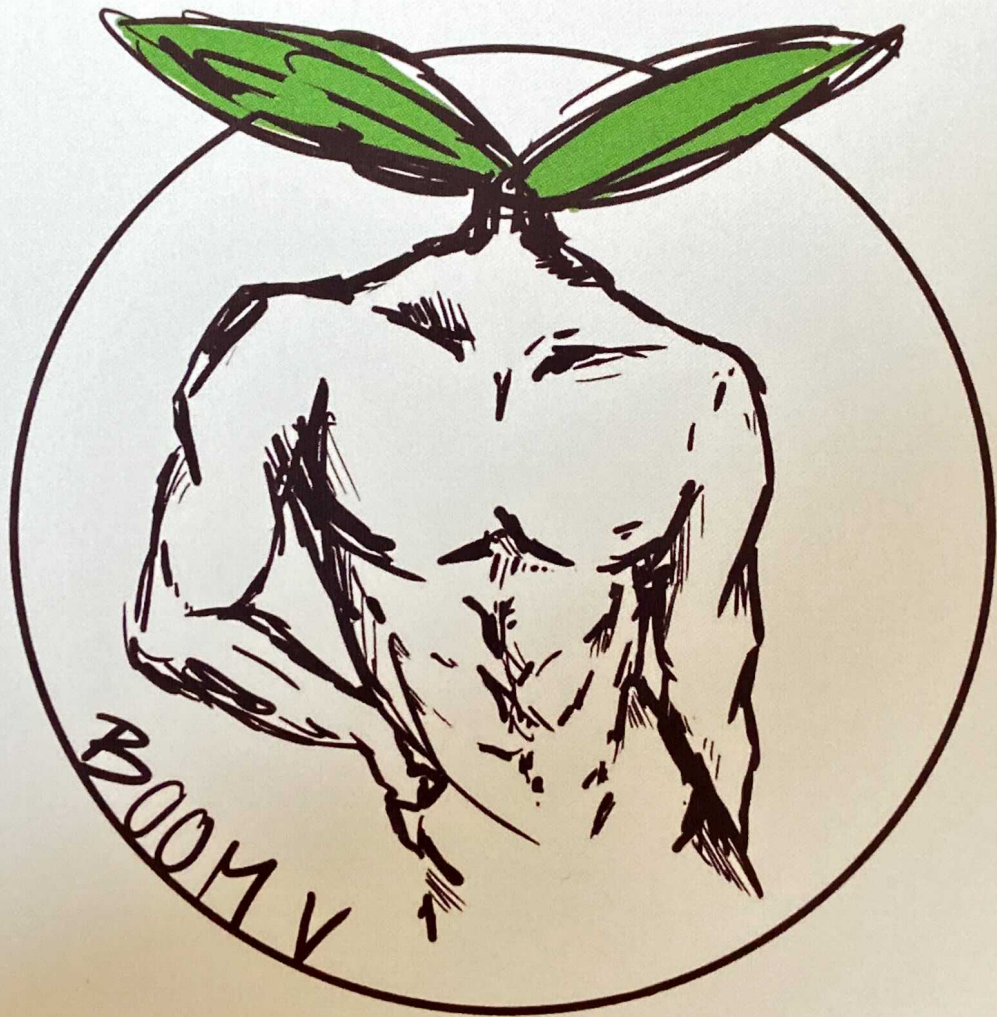
with Arboblock

Infected mosquitos

Hi, this is the Aix-Marseille University team!

This year we are working on arbovirus diseases. Our goal is to prevent the transmission of diseases via mosquitoes. To do this, we have genetically modified the *Serratia marcescens* bacterium so that it is able to recognise a mosquito contaminated by arboviruses. If the mosquito is infected it will produce and release a toxin that will kill the mosquito. As the *Serratia marcescens* bacterium is naturally present in the gonads of the mosquito it will be able to be transmitted vertically, so that our solution is valid in the long term!





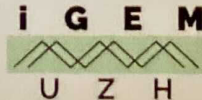
Dear fellow iGEMers,

Our project deals with crop losses caused by plant pathogens. Synthetic pesticides have so far tried to keep them under control, but their limitations are increasingly evident: loss of biodiversity, health problems as well as the development of resistance in pathogens. Now you might be wondering what all that has to do with the ripped plant you see on the front side. Instead of attacking the pathogens like pesticides do, we aim to prime the plant's immune system using vesicles that are naturally produced by bacteria. Hopefully, this will allow for strong crops and thus, food safety, without the same disadvantages that pesticides have.

We are excited to receive all your postcards and read about your projects as well,

Hope to see you all in Paris!

Team UZurich





SHANGHAI FASHION



GEM 2021



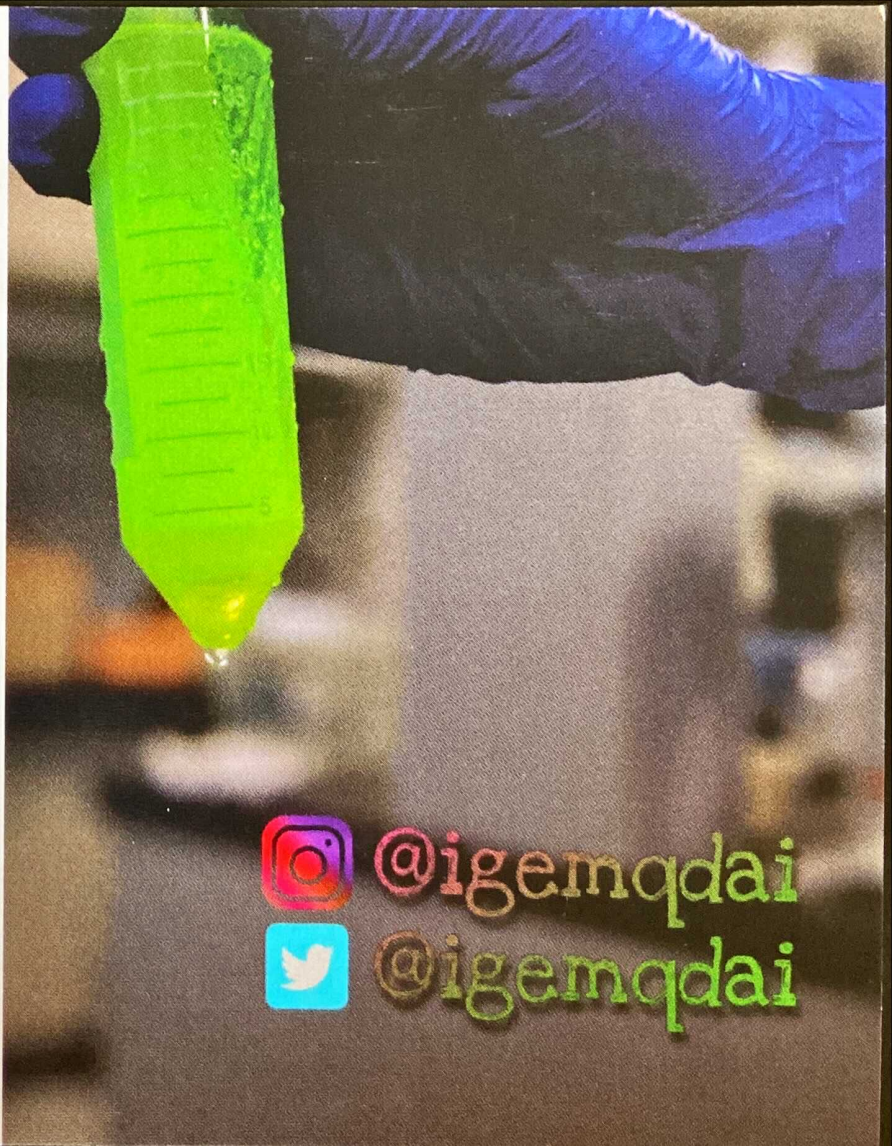
Alternative to Canary

Once upon a time, canaries were sacrificed by coal miners to detect Carbon monoxide.

Eventually, CO detectors mostly based on platinum were developed, but there's a huge disadvantage: the imminent depletion of platinum!

To solve this, iGEM Qdai is genetically engineering E. Coli to irradiate light when CO is detected.

Fukuoka, Japan



@igemqdai



@igemqdai



REPEAT.

We are AptaVita, the 2021 iGEM Team from the TU Delft, and we are so excited to get to know you all via this postcard initiative! Our project focuses on vitamin deficiencies all over the world, with main focus in Uganda.

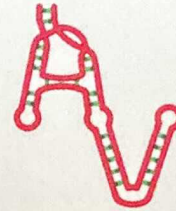
The goal is to tackle Silent Hunger, a health problem caused by lack of vitamins and other micronutrients, by developing a new, fast & rapid method to detect vitamins using aptamers. Aptamers are RNAs that act as biosensors, binding to other molecules, like... vitamins!

We couple this with a reporter protein system to generate a colorimetric readout so you can easily see your results!

How do we find these aptamers, you might wonder? Through a novel procedure called DRIVER, where we go through the "select", "recover" & "enrich" cycle. So.. a bit like the design cycle we learned about in the opening festival.

Stay healthy & get some vitamins! Looking forward to meeting you.

Love,
AptaVita (iGEM TU Delft)

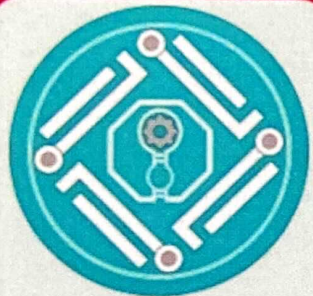


Hello iGEMers around the world!

We're thrilled to learn about your projects, and you can read about ours on the left! Please reach out to us for anything you want :)

iGEM TU Delft 2020

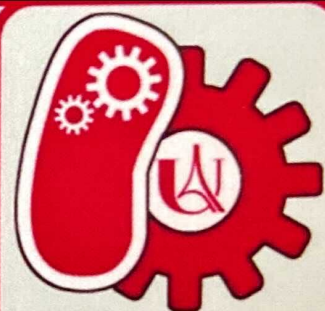
IG/tiktok: @igemtudelft
igem@tudelft.nl
www.igemtudelft.nl



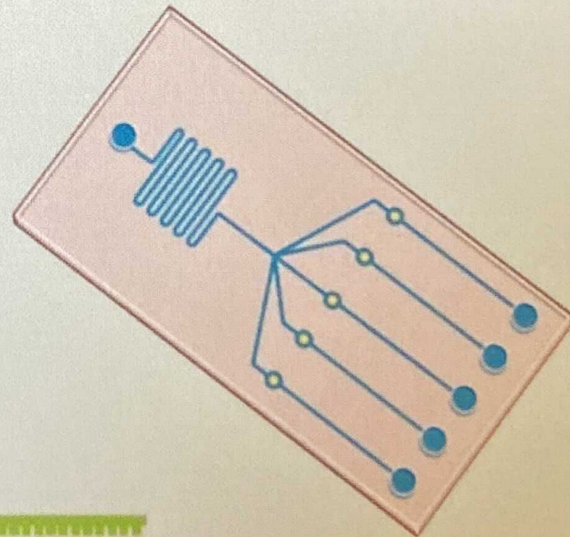
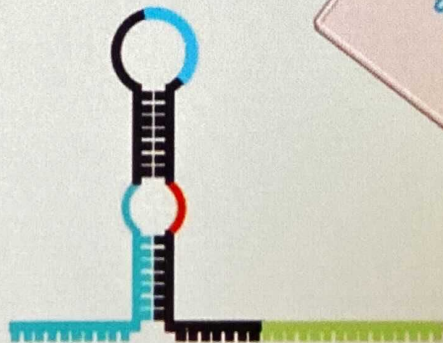
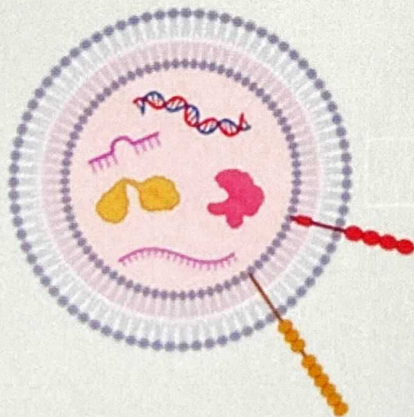
ExoSwitch

ExoSwitch

A liquid biopsy tool for early cancer diagnosis



iGEM UParis



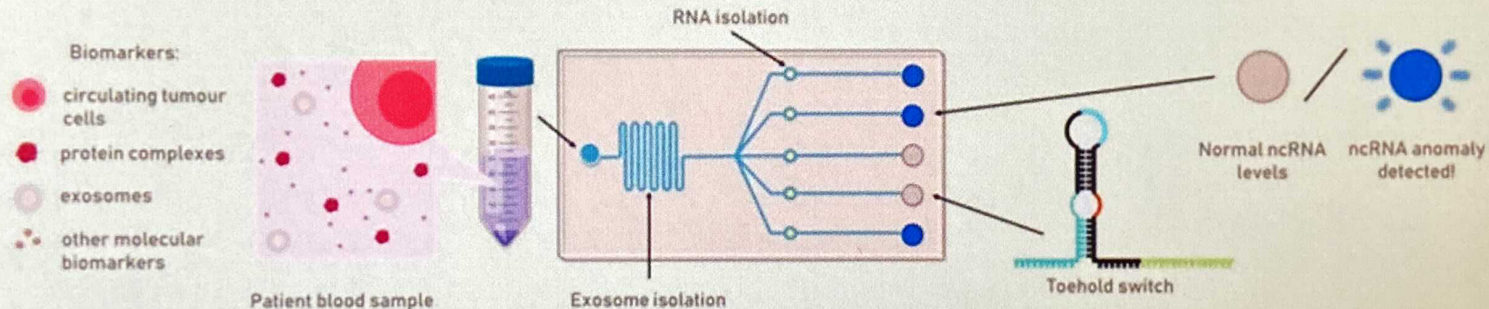


ExoSwitch

In 2021 the UParis_BME iGEM team tackles the problem of **early cancer diagnosis** with the project **ExoSwitch**



IGEM UParis

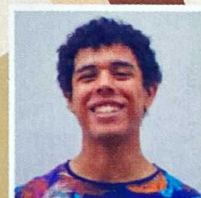


We aim to:

- Explore cancer markers containing in biofluids on early stages of the disease
- Model specific RNA structures (toehold switches) able to detect the miRNA cancer markers
- Test the specificity and functionality of the toeholds switches and design a miRNA detection device




MIKROSKIN



Hej!

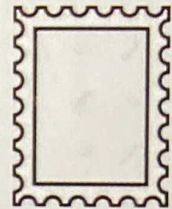
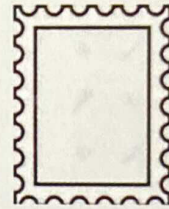
We are iGEM Stockholm, writing to you during a Swedish fika break outside the AlbaNova lab.

We're honoured to take part in this postcard collaboration with so many amazing teams around the world, and we can't wait to see what you all have come up with.

Our postcard includes photos of our team, completely bare-faced, to highlight our project for 2021: the skin microbiome and the diagnostic test that we are developing. 

Ser fram emot att träffa er alla / Looking forward to meeting you all! 

iGEM Stockholm 



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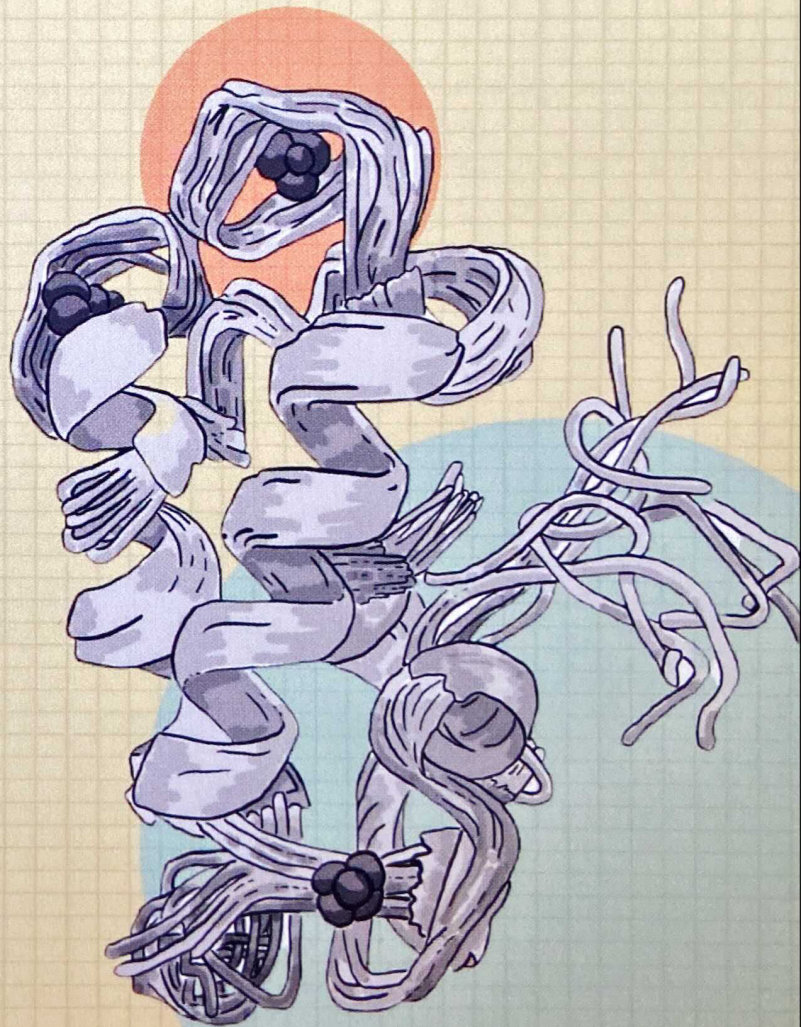
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When LanM meets Lanthanides, it says

— — — — —

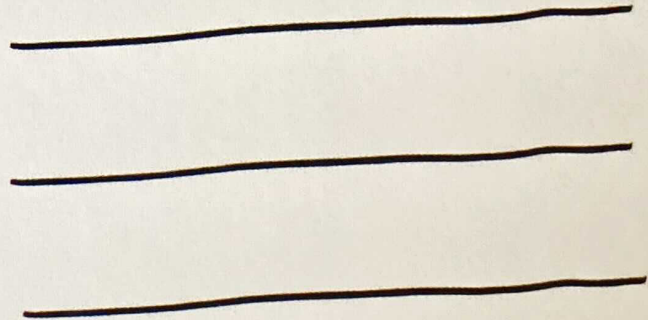
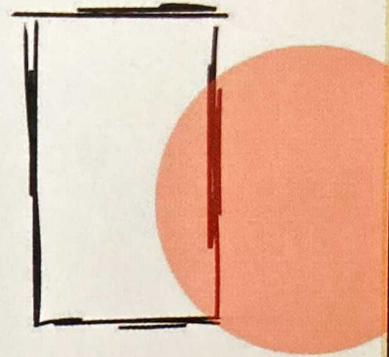
Hello, my love.




Our Project - BioLan

is a biotechnological project, with the goal of abolishing current metallurgical processes in favour of a more sustainable method by using the protein **lanmodulin**.

The process developed by us will encompass the entire extraction cycle including reuse of the protein and prepare for large-scale applicability.



@igembonn

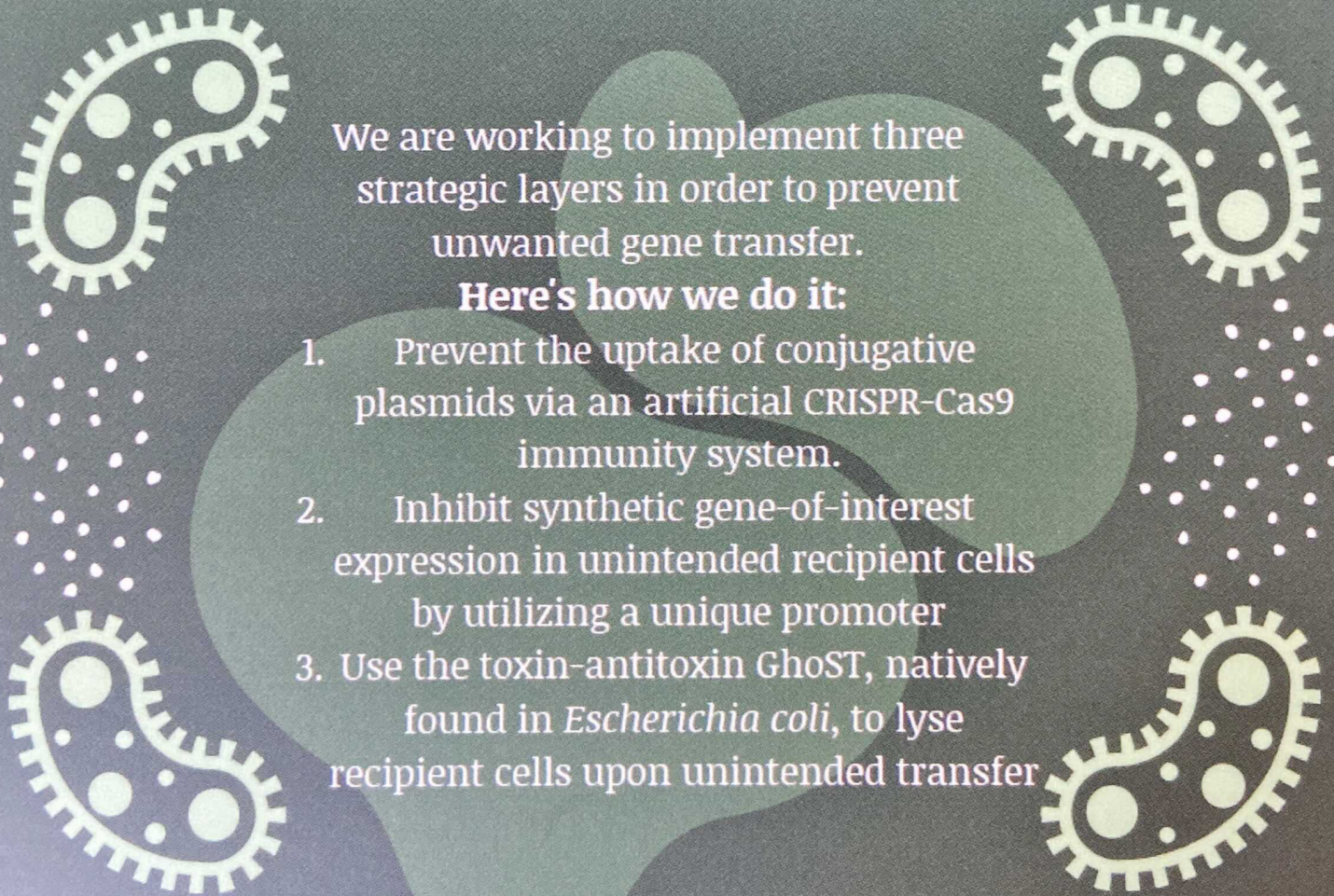


MICHIGAN STATE UNIVERSITY IGEM PRESENTS

SYNTERCEPTION

A BIOCONTAINMENT PLATFORM FOR YOUR SAFETY NEEDS

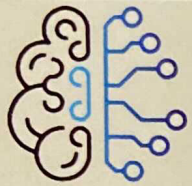




We are working to implement three strategic layers in order to prevent unwanted gene transfer.

Here's how we do it:

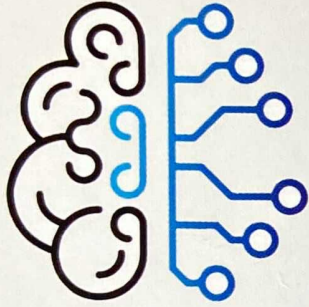
1. Prevent the uptake of conjugative plasmids via an artificial CRISPR-Cas9 immunity system.
2. Inhibit synthetic gene-of-interest expression in unintended recipient cells by utilizing a unique promoter
3. Use the toxin-antitoxin GhoST, natively found in *Escherichia coli*, to lyse recipient cells upon unintended transfer



IGEM **NOUS** BREEGE

EPIONE



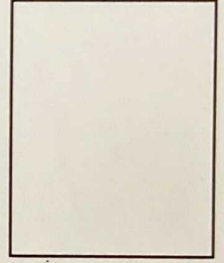



iGEM **NOUS** GREECE

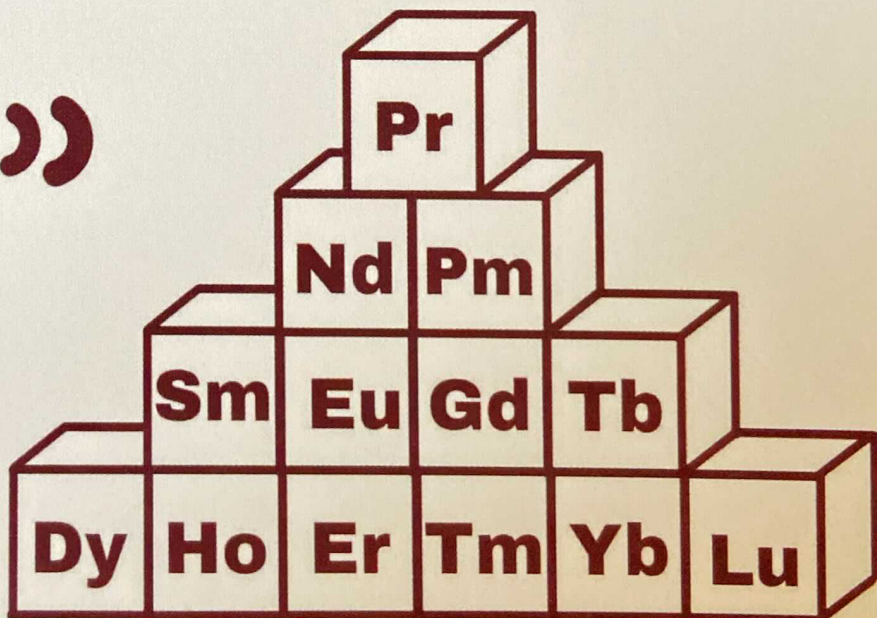
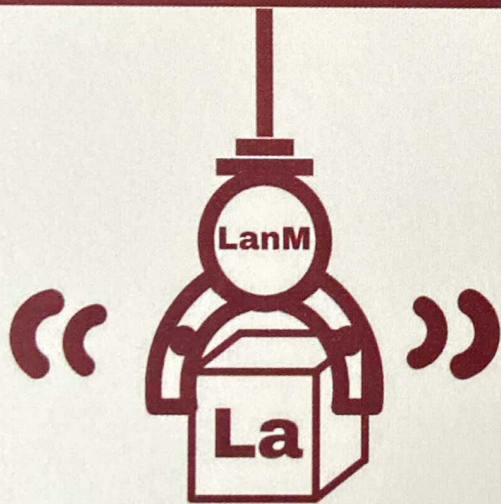
ABOUT US:

We are NOUS, a team of greek students. We are developing an innovative, non-invasive treatment for osteoarthritis. To do this we are genetically modifying cells to produce micro-RNAs

DUTH University Campus | School of Medicine, Dragana | 68100 Alexandroupolis, Greece |
Web: igemnous.med.duth.gr



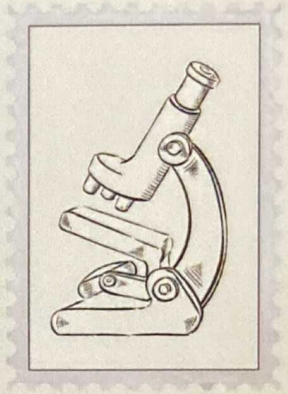
B I O  L A N



Our Project - BioLan

is a biotechnological project, with the goal of abolishing current metallurgical processes in favour of a more sustainable method by using the protein **Ianmodulin**.

The process developed by us will encompass the entire extraction cycle including reuse of the protein and prepare for large-scale applicability.





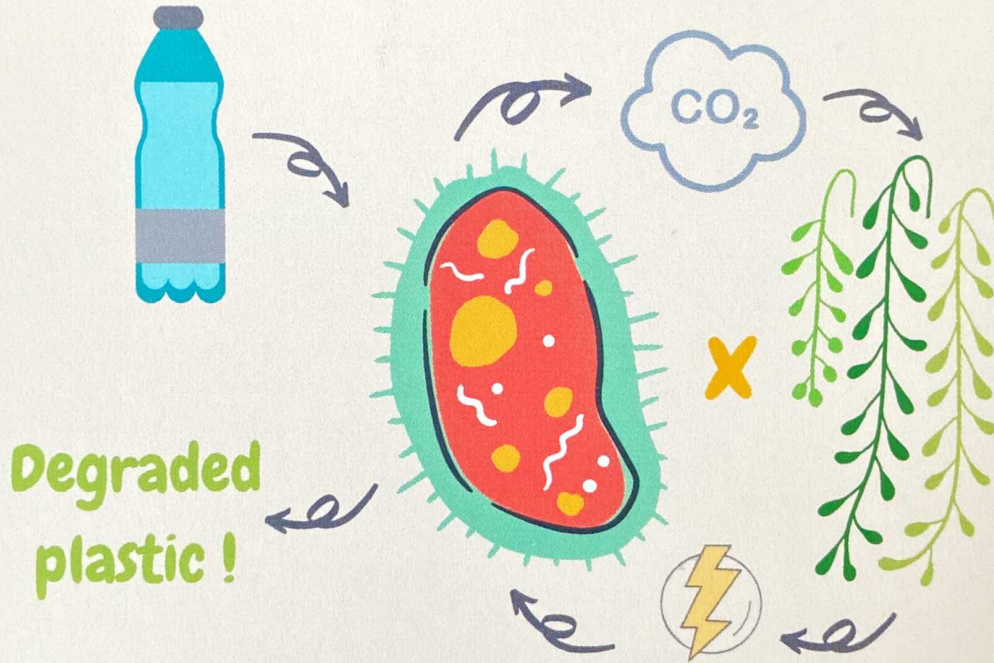
@igembonn



**We are the iGEM Team
Tübingen 2021 and this year we
are working with antimicrobial
peptides, short AMPs, which are
a possible alternative to
antibiotics. In our project, we
plan to identify and characterize
novel antibacterial cyclotides (a
form of AMPs), recombinantly
produce them in tobacco plants
and finally test them and other
known cyclotides against
different strains of bacteria.
Furthermore, since most of the
already discovered cyclotides
were neither active under
physiological conditions nor
tested against bacteria, we gain
the possibility to run our tests to
find new antimicrobial activity of
known cyclotides as well as ones
not yet discovered.**

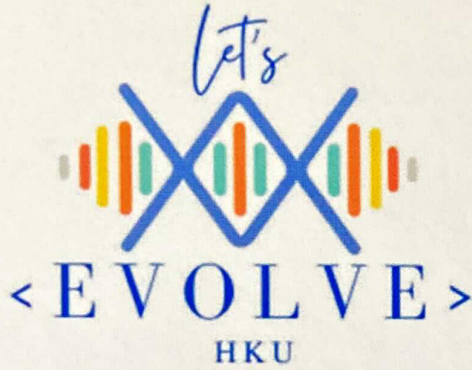
iGEM Team Tübingen 2021





We are getting married !

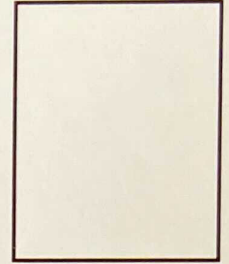
Symbiosis of PET-MHET-degrading Mr. E. coli
& CO₂-eating Ms. Algae



Contact Us

Instagram: @hkuevolve; Email: igemhku@hku.hk; Facebook: @hkuigemteam. Find us for collaboration activities or knowledge exchange!

Mr. Kenneth Ng, 7N07, Kadoorie Biological Sciences Building | The University of Hong Kong,
Pok Fu Lam Road | Hong Kong | Web: www.facebook.com/hkuigemteam/



tas_taipei



Hi! We are the 2021 TAS_Taipei iGEM team. Our team aims to tackle the blood shortage issue by enzymatically converting A, B, and AB blood types to universal donor O type. As patient-donor incompatibility limits the supply of transfusable blood, our project eliminates this factor to increase the supply of universal donor blood. We have identified 3 enzymes to cleave off the terminal sugar groups of A and B surface antigens, leaving the remaining sugars to be H antigens (or its precursor), which do not elicit an immune response in the human body.

We are open to collaborations or partnerships with any team,
feel free to reach out to us on social media!

Instagram: igem_tas; TikTok: igem_tas; Email: igemtas@gmail.com

We've created a short public opinion survey for our project, and would greatly appreciate it if your team could help fill it out :))

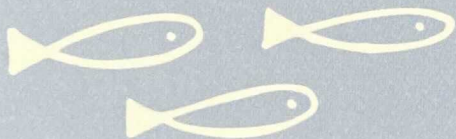




SULFIND

SULFIND

FOR A MORE SUSTAINABLE
AQUACULTURE INDUSTRY



Hello iGEM teams!

We are the 2021 iGEM team from the Norwegian University of Science and Technology. Our project, Sulfind, will tackle the emerging problem of hydrogen sulfide (H_2S) production in recirculating aquaculture systems (RAS) used in landbased fish farming. H_2S accumulates in RAS systems when fish waste is broken down by bacteria, and is highly toxic for the fish even at low concentrations. To prevent fish death and contribute to a more sustainable fish farming industry, we are developing a biosensor to detect H_2S at low concentrations, before the toxic level is reached.

DNA - the secret code of life?



1. Scan QR code



2. Scan marker



igem-vilnius-ar.com

RNA - the gene language translator



1. Scan QR code



2. Scan marker



igem-vilnius-ar.com