

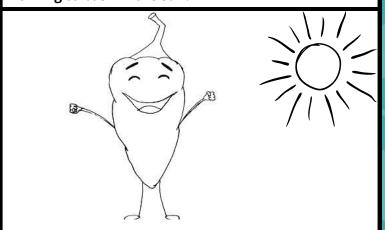
Our stories:

- iRNAldo and Chalino against the great oomycete (Tec-Chihuahua)
- The bombolitin (Thailand_RIS)
- The Rust-Busters (UNSW iGEM2022)
- Binanox (Leiden)
- UBX protein (NYCU_Formosa 2022)
- Antibody (CSMU Taiwan)
- Industries (REC CHENNAI)
- CADlock (Lambert_GA)
- Nobesity (KCIS Xiugang Taipei)
- PCR (CityU Hong Kong)
- Fungus (CityU Hong Kong)
- Pichietecture (igem Vienna)
- Do you know? (GYHS)
- Paper based sensor (GYHS)
- How can I dispense the phosphate? (AACHEN)
- Endocrine disruptors (TECCEM)
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- Yeast resistant to radiation (Estonia_TUIT)
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- Problems in the farm- CropFold (Aboa)
- Heparosanito (Biotech EC)
- AcidOceanus (UM_MACAU)

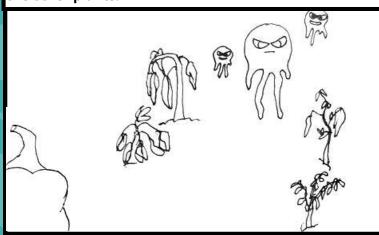
iRNAldo and Chalino against the against the oomycete

Tec-Chihuahua

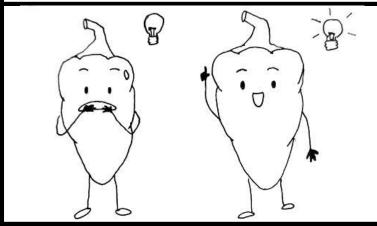
Once upon a time, there was a large/big jalapeño plant called Chalino. They spread their long leaves every morning to bask in the sun.



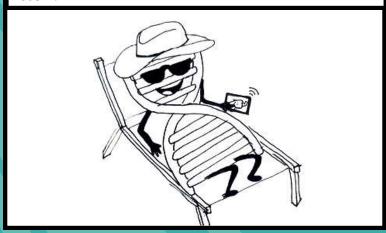
One morning, they were sunbathing and saw a large oomycete slowly approaching them while attacking the other plants.



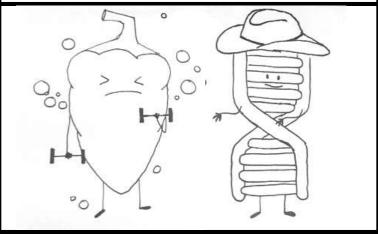
Terrified, but determined to defend themselves and stop the oomycete from harming other plants. Chalino called his old friend IRNaldo for help.



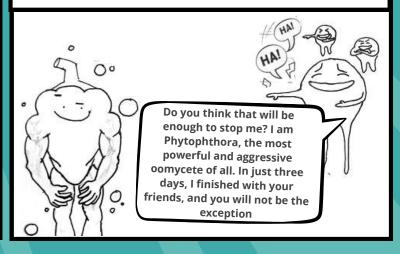
IRNaldo responded to their call and took with him his most powerful weapons: the peptides DsrB1 and PcosM.



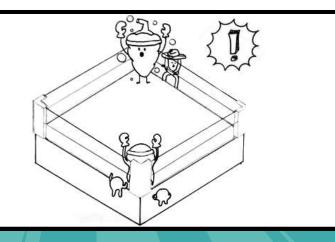
At the same time, Chalino prepared their defense system, and they both waited for the oomycete to arrive.



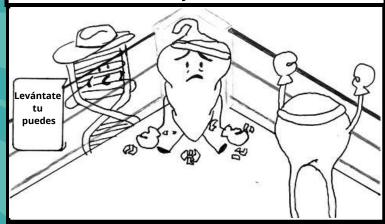
The oomycete came and taunted saying:



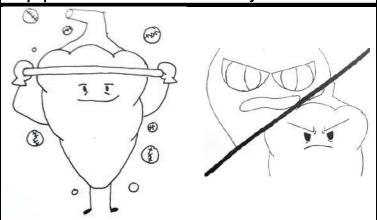
The great battle began



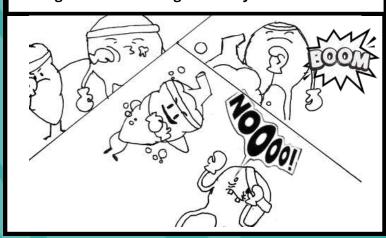
The oomycete began to release its effectors and absorb nutrients from Chalino. Chalino tried to resist with their defense system, but the effectors weakened them, and they fell.



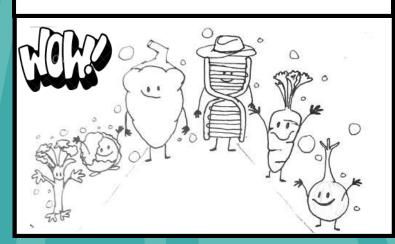
But IRNaldo deactivated the effectors and Chalino rejoined the fight. Simultaneously, IRNaldo released the peptides that weakened the oomycete's armor.

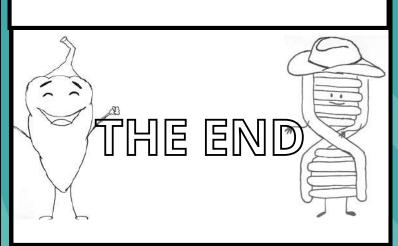


After an arduous fight, Chalino and IRNaldo managed to defeat the great oomycete.

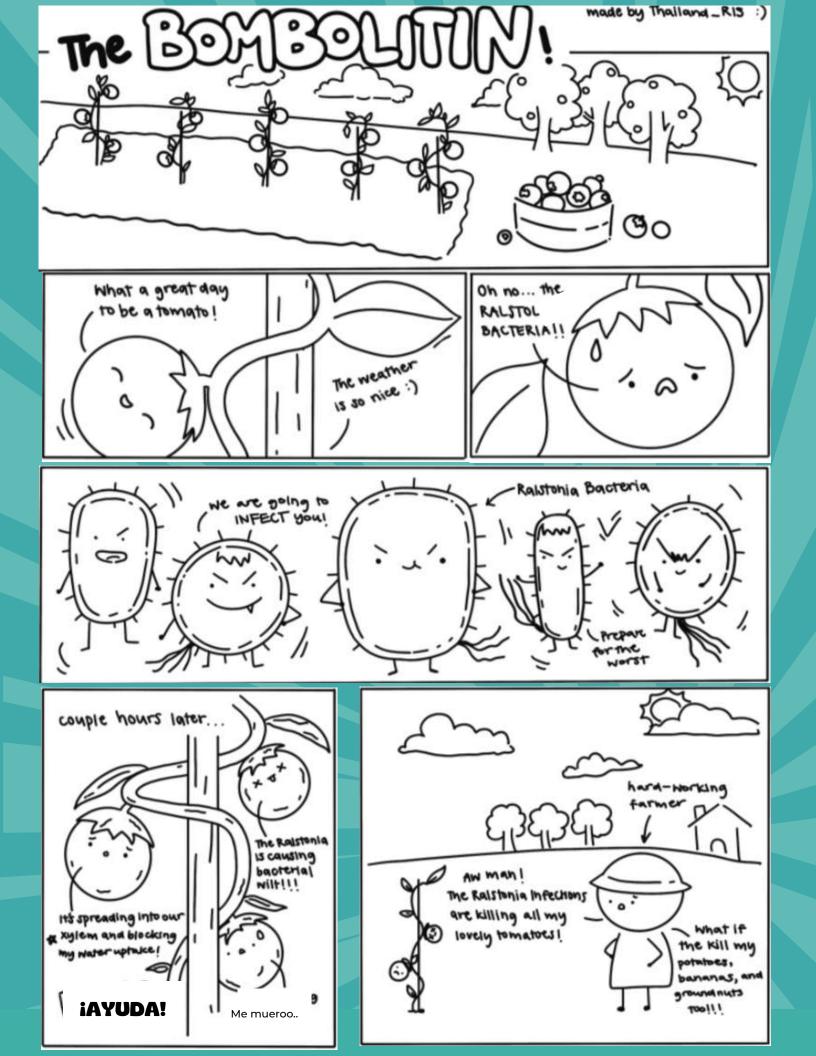


The other plants applauded the great bravery of Chalino and IRNaldo and they all lived peacefully.



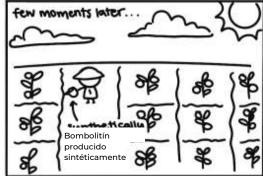


bombolitin Thailand_RIS



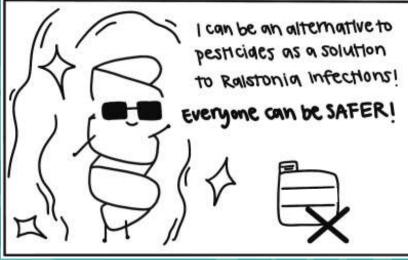












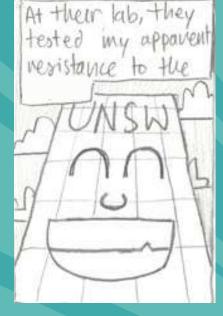


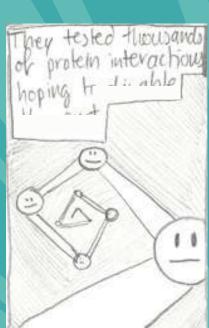
The Rust-Busters UNSW iGEM2022



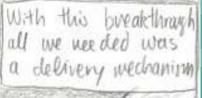










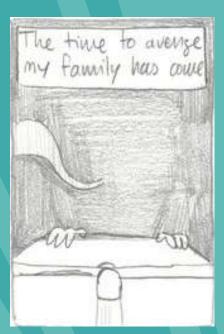










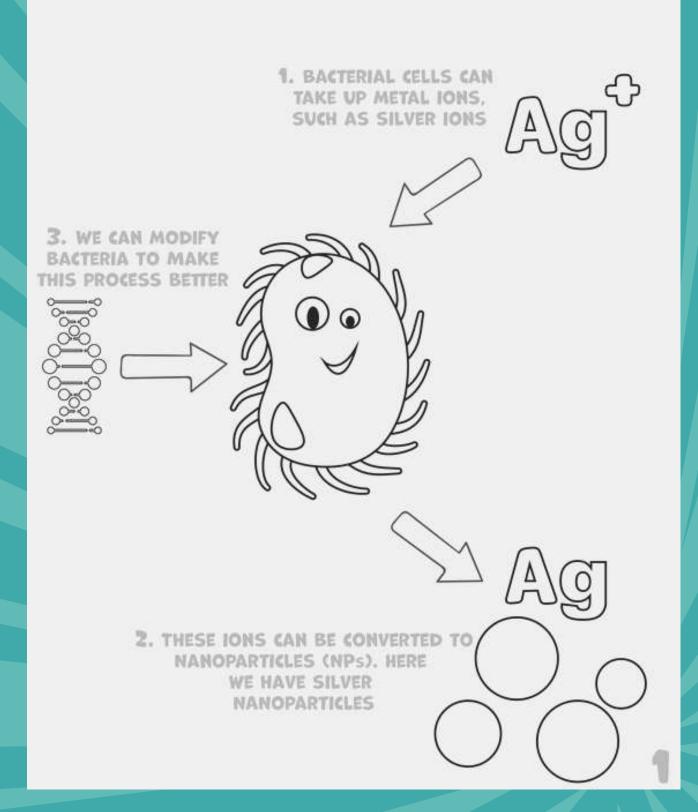


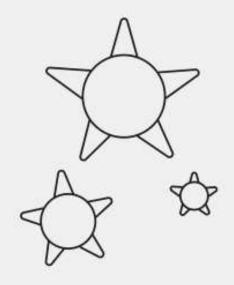




BINANOX Leiden

iGEM LEIDEN 2022 BINANOX



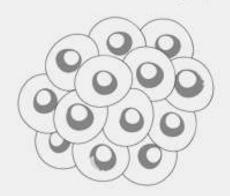


4. WE CAN ALSO USE BACTERIAL SYSTEMS TO MAKE NPS WITH TWO DIFFERENT METALS

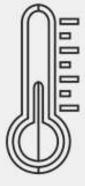
-FOR EXAMPLE HERE WE HAVE A SILVER CORE WITH GOLDEN SPIKES



5. THESE NPS
CAN BE USED TO KILL
CANCER CELLS. THE NPS
ARE SIMPLY DELIVERED TO
THE TUMOUR



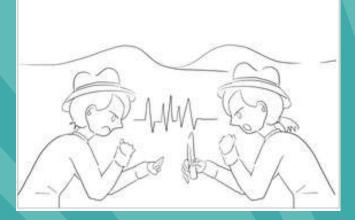




6. THESE PARTICLES ARE THEN HEATED UP, WHICH DESTROYS THE CANCER CELLS!

UBX protein NYCU_Formosa 2022

Once upon a time, there are two cowboys from different rivals fighting with each other since an irreconcilable conflict.



The man, Rex, eventually won the fight. However, the other man, Jay, was covered all over with cuts and bruises.



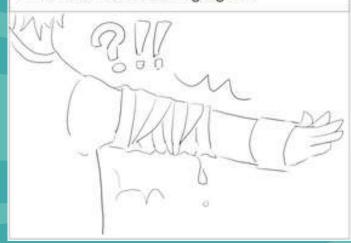
The nurse saw Jay was hurt so badly, she came to get him a wound bandage.



Soon, Jay stopped bleeding and felt recovered.



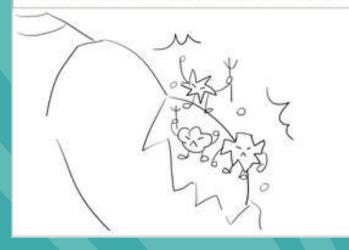
However, after three days, Jay felt his hand hurt. Suddenly, he found that the wound started bleeding again.



He removed the bandage and found that the wound just got inflamed!!



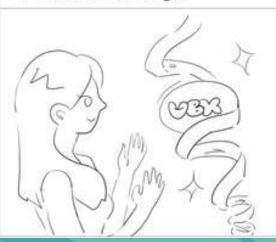
It turned out that the bandage was so airtight and inelastic that the wound was infected with bacteria and was purulent!



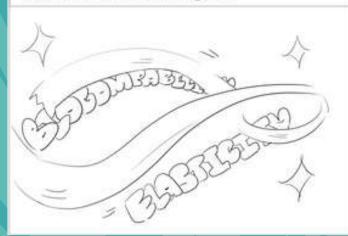
Just then, a girl from the future named Vivian appeared with a magic protein called "UltraBithoraX".



She used the UBX protein and antimicrobial peptides to make a antibacterial bandage.



The bandage made up of UBX protein is elastic and biocompability. It would not caused the infection again!



Vivian quickly dressed his wound and told him the magic power of UBX protein.



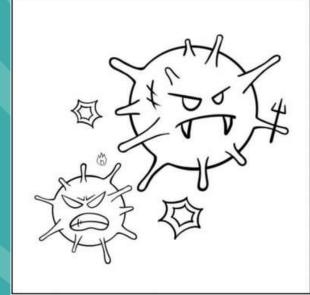
Soon after, the cut on Jay's arm was completely healed !!! Thank you, UBX protein, thank you, Vivian!



Antibody CSMU Taiwan

Once upon a time, a group of viruses attacked the Earth.

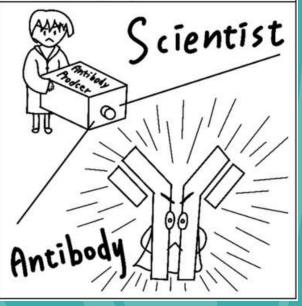
They brought a horrible pandemic to human society and made the public panic.



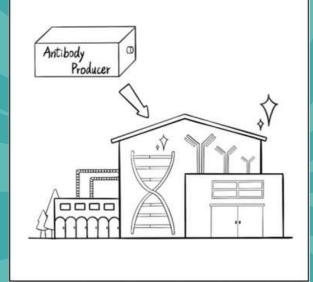
The viruses and antibodies had a fierce fight. However, the antibodies were beaten down, and failed to stop the viruses from infecting human beings.



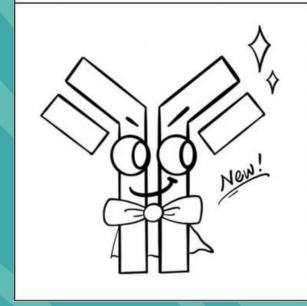
In order to beat them and save lives, scientists produced a legion of monoclonal antibodies to fight against these evil gangsters.



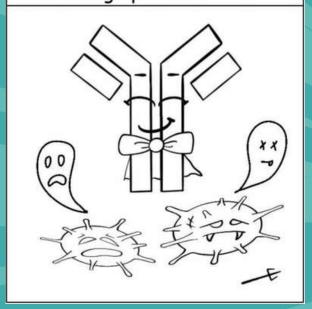
After the antibodies were defeated, scientists found a special component named AID, which could help optimize the antibody producers.



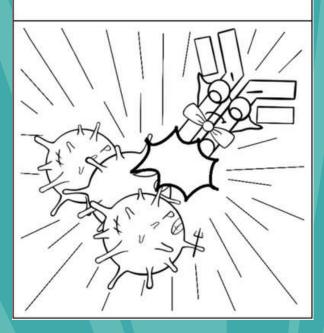
The optimized antibody producer improved the combat effectiveness of the antibodies, and made them brand-new antibodies.



Finally, the new antibodies won the battle, killed all the viruses and saved everyone from suffering from the distressing epidemic.



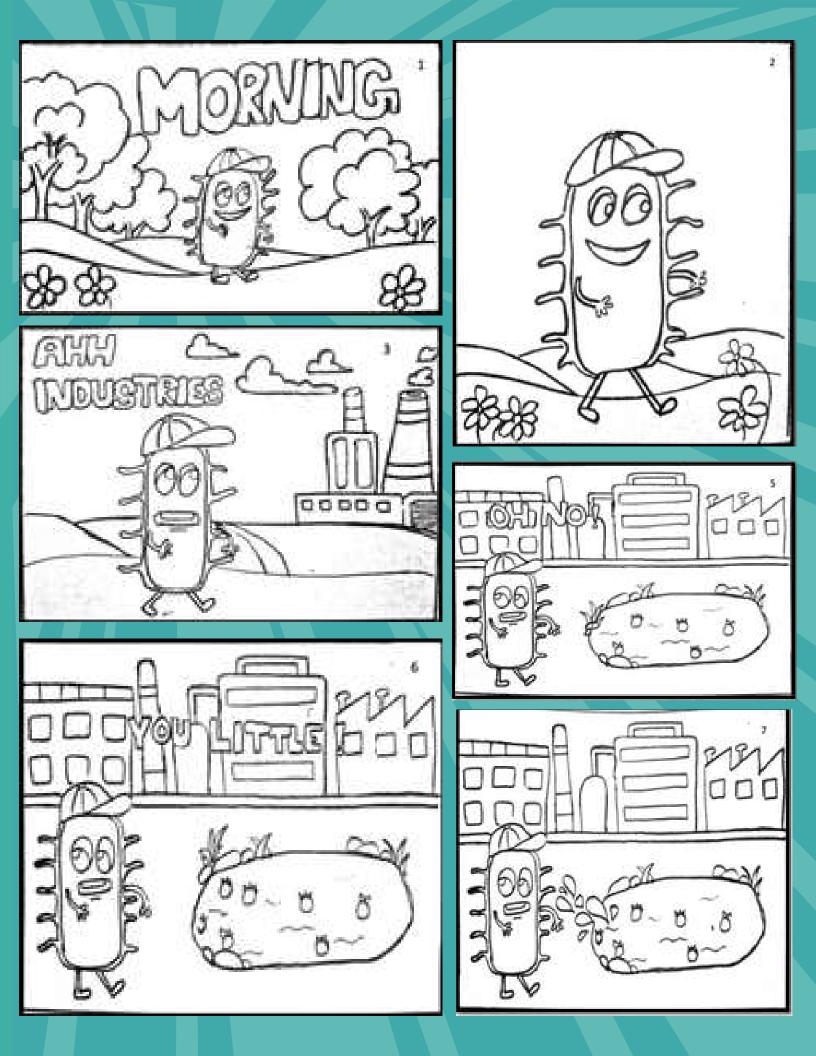
Becoming stronger, the new antibodies legion challenged the viruses again, and got them into trouble.

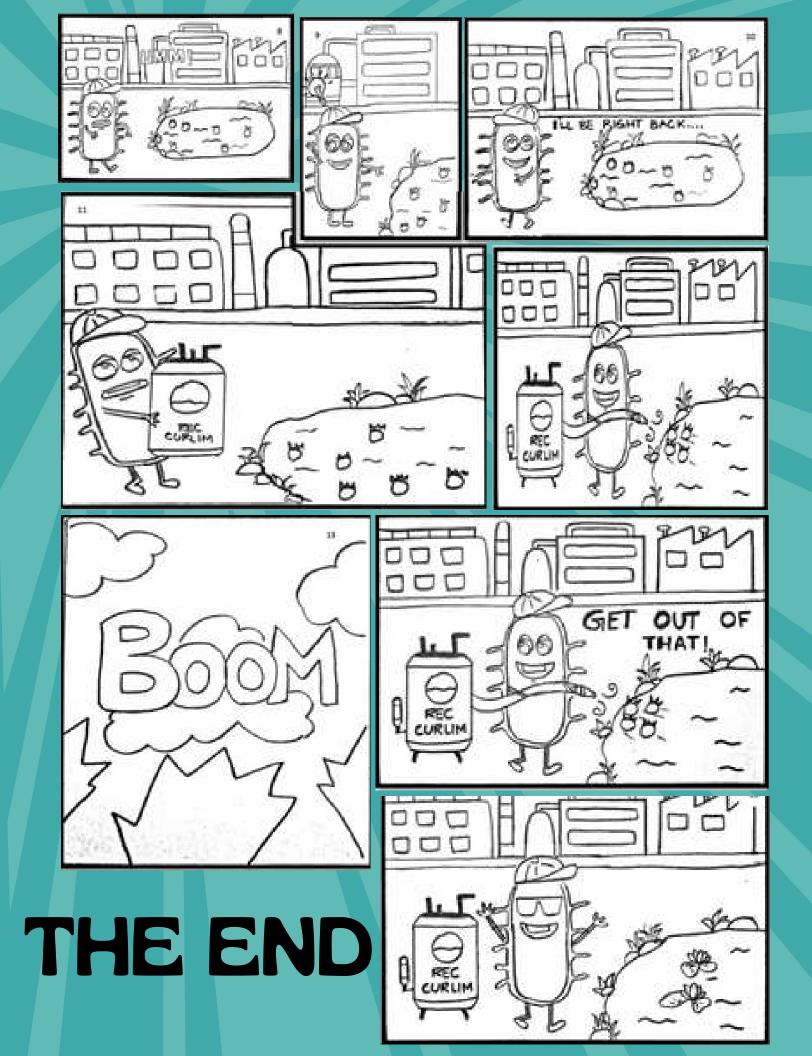


Thanks to the new antibody producer and new antibodies, the Earth and human beings living on it could live happily ever after.



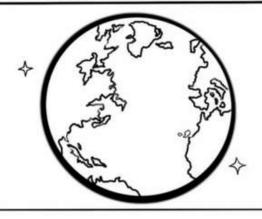
Industries REC CHENNAI



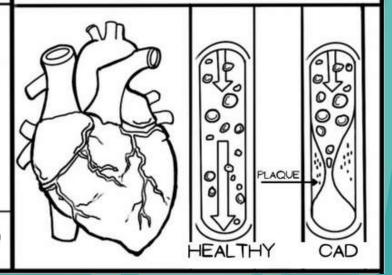


CADJock Lambert_GA

ON EARTH, III MILLION DEATHS OCCUR EVERY YEAR DUE TO... IT IS A HEART CONDITION WHERE THE CORONARY ARTERIES (MAJOR BLOOD VESSELS) STRUGGLE TO SEND BLOOD TO THE HEART. THIS IS CAUSED BY PLAQUE BUILDUP IN THE ARTERIES.

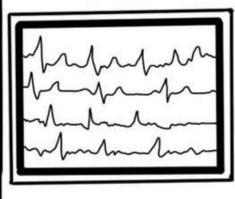


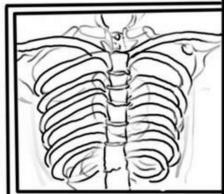




NOT ONLY DOES
THIS CONDITION
CAUSE
DISCOMFORT, BUT
CAD CAN ALSO
WEAKEN THE
HEART MUSCLE
AND LEAD TO ITS
FAILURE...

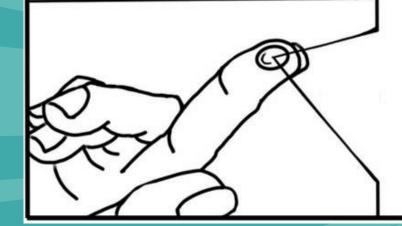
CURRENT METHODS USED TO DIAGNOSE THIS DISEASE INCLUDES CHEST X RAYS





BUT WHAT IF THERE WAS ANOTHER WAY ?

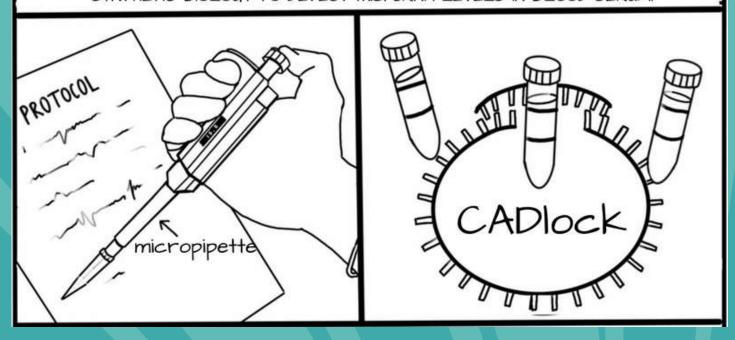
A POTENTIAL ANSWER IS FOUND IN THE BLOOD...







Lambert IGEM IS USING RESEARCH ON THE ROLE OF MICRORNAS IN CAD AND SYNTHETIC BIOLOGY TO DETECT MICRORNA LEVELS IN BLOOD SERUM!



TESTING COULD THEN BE DONE IN HOSPITALS AND AID DOCTORS IN THE DIAGNOSIS OF

CORONARY ARTERY DISEASE...

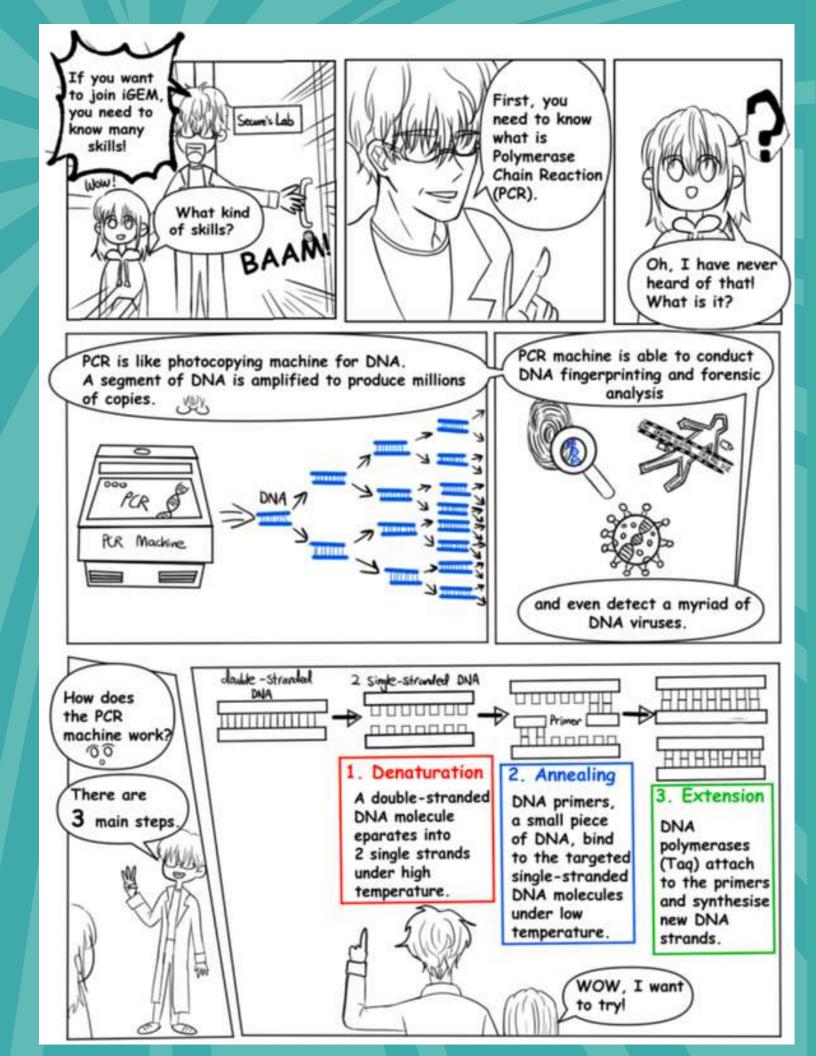


NOBESITY KCIS XIUGANG TAIPEI





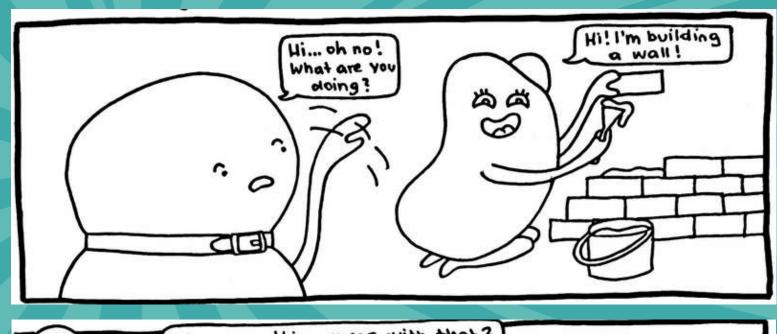
PCR CityU Hong Kong

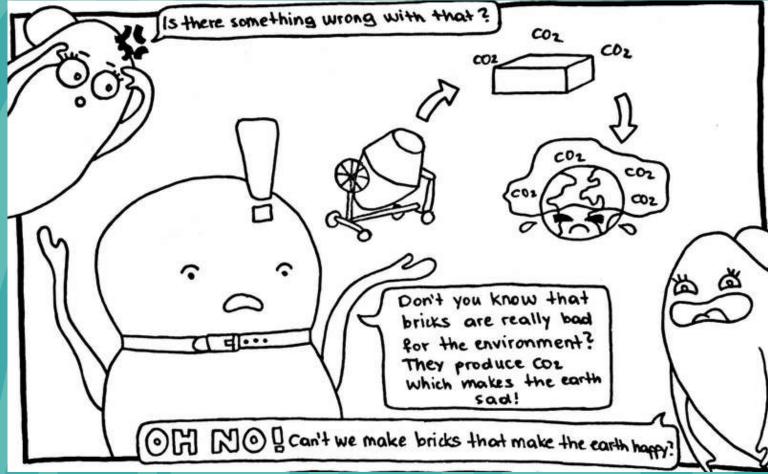


Fungus CityU Hong Kong



Pichitecture igem vienna

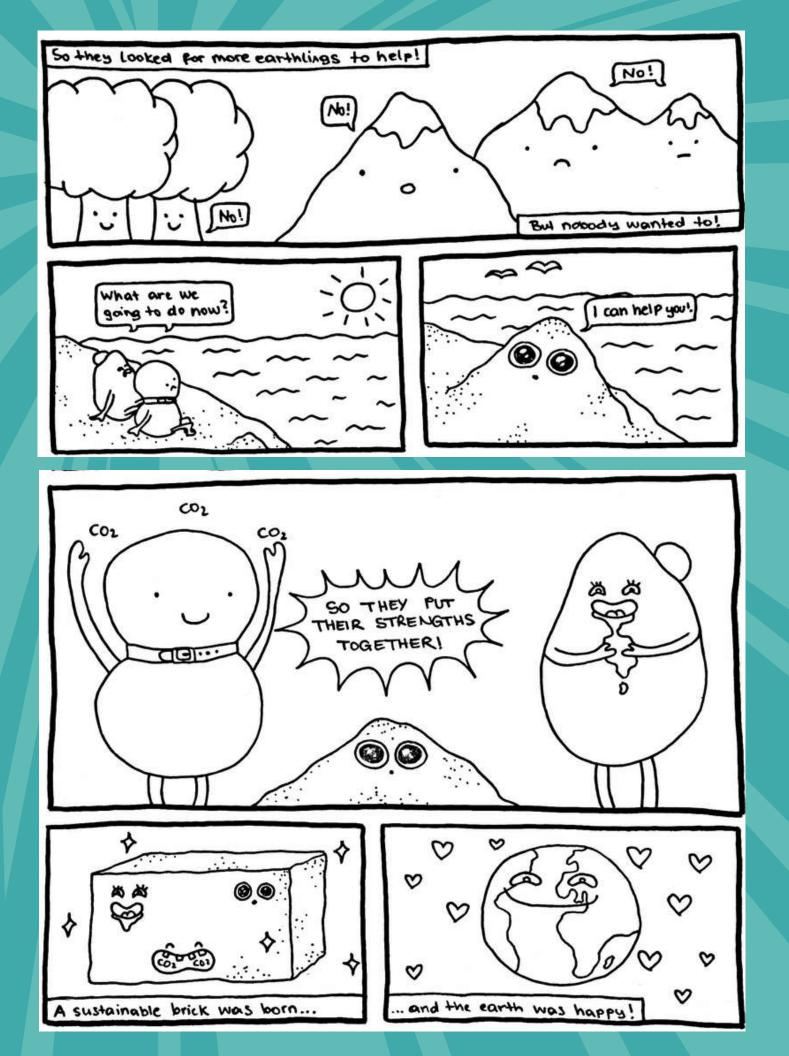












Did you know? GYHS

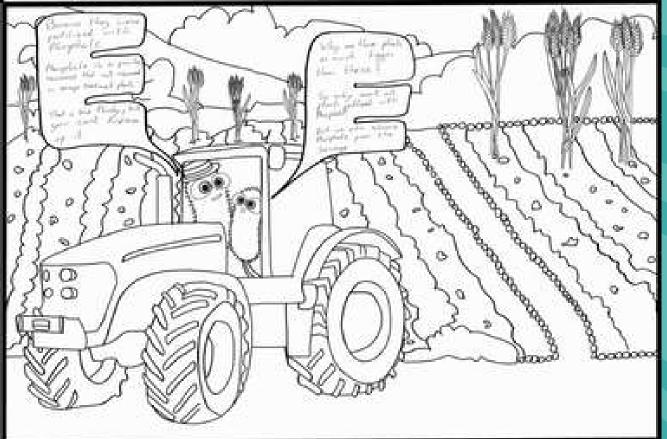


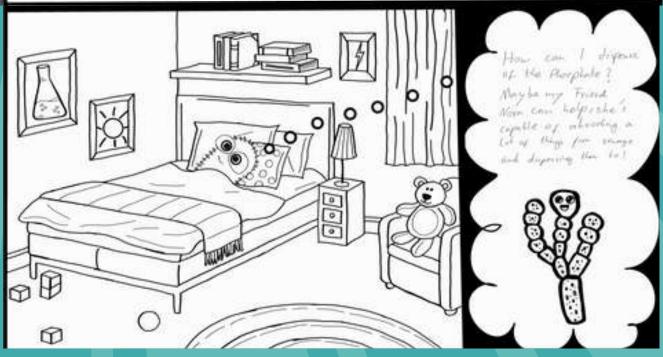
Paper-based sensor GYHS

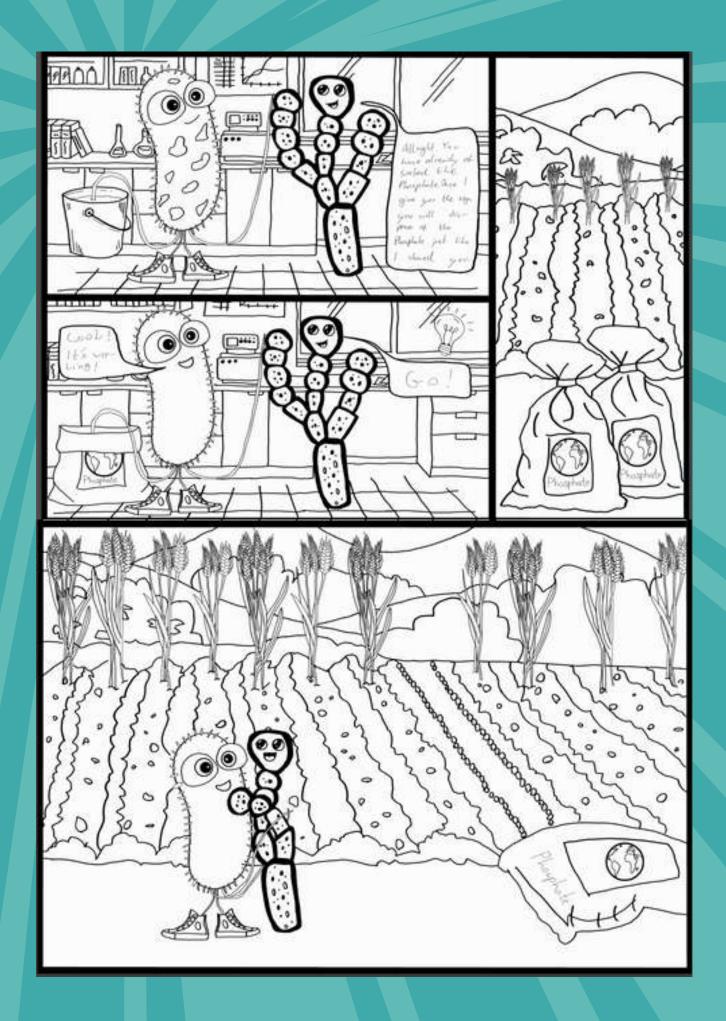


How can I dispense the phosphate? iGEM AACHEN



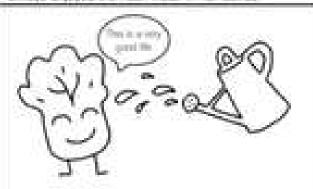




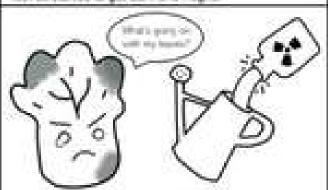


Endocrine disruptors TECCEM

One day Lettle (a beautiful and little lettuce) was enjoying her riew life in the fertile ground. She had always enjoyed the fresh water in her leaves.



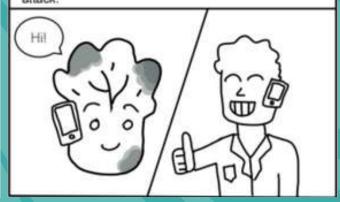
One day she noticed that the water she received was full of toxic compounds. She knew this because her leaves started to get dark and fragile.



Lettie started looking for help on web sites. Fortunately, she found a one full of Mexican scientists that created a system to detect and eliminate the contaminants, this page was called "iGEM TEC CEM".



Lettie contacted them to ask for help. These scientists were happy to help, so they prepared their armor to attack.



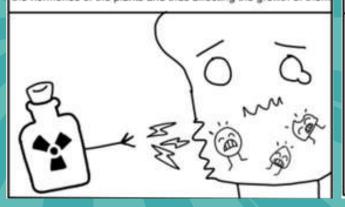
Lettie was surprised about the incredible armors the scientists had developed. One of them was a potent protein called "Hery" that could reveal the identity of the toxics.



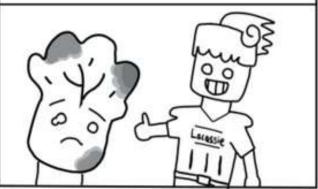
And the other armor allowed the elimination of these toxics with the action of the powerful Lacassie, who is a remarkable enzyme with super elimination powers.



First, Hery determined that these toxics are called endocrine disruptors, and that their malignancy actions consist of affecting the hormones of the plants and thus affecting the growth of them



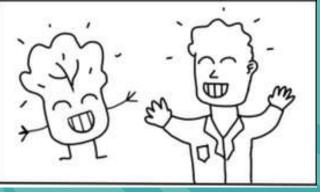
Lettie felt sad when she heard that, but Lacassie calmed her down and told her that she will handle it.



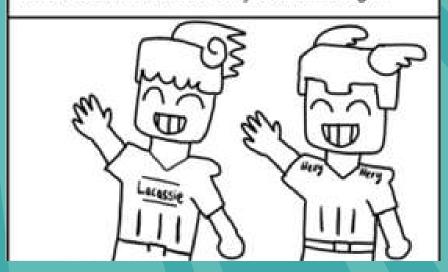
Then, Lacassie did her job and endocrine disruptors abandoned the field.



Lettie and her friends were very grateful and gave the scientist a great hug!

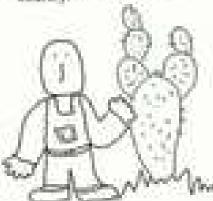


Scientists, Lacassie and Hery said bye and promised to come back if another enemy ever arrived again.



SPIDICIDE UAM

Nopel is one of the mein sources of income in our country!



But we have a problem: "El ploudo berrenado."



沙野市

It's an insect from the family "collections" who has become a plague and is narming the nopal helds

So we carrie up with and stress



The first part of this idea was that its restural preclators. (the spiders) produce a power that could be used against the proubs.

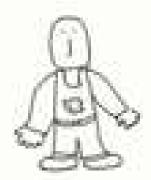


And the serpind one, was that using synthetic binlogy we sould roadily an organism to produce the two poptides that make the posson deadly to the plouds:



Dir we selected a yearst pictup produce the peptides

And after working diligently on the lab



That is now SPIDICIDE came to be fift

A Sopesticide that is specific and non-hamily for the environment.

Yeast resistant to radiation Estonia_TUIT



SELENOMELANIN NCKU-Tainan

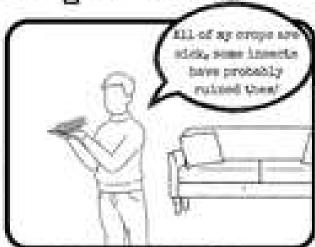


Problems in the farm-CropFold

Aboa

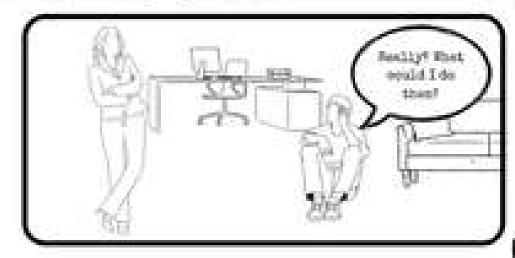
Problems in the farm - Cropfold

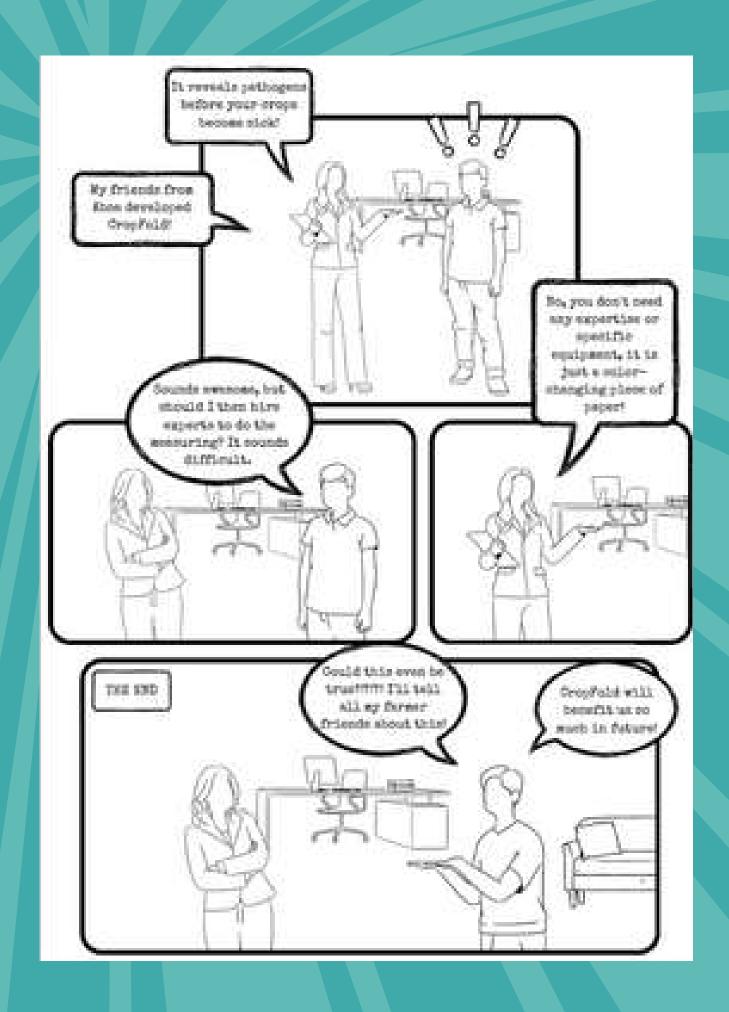












Heparosanito Biotech EC

HEPAROSANITO





Acidoceanus UM_MACAU

