

MAKERERE_UNIVERSITY

TEAM

2018

WELCOME!



ABOUT MAK!



OUR PROJECT

Introduction:

- About plastics in our country and our source of inspiration.
- Main target.(what we are doing and why we choose to the it)
- Our expectations.
- The environment.





LET OUR CITIES SHINE

Time to reverse the trend

Waste of the past, clean the future

VIVO ENERGY  

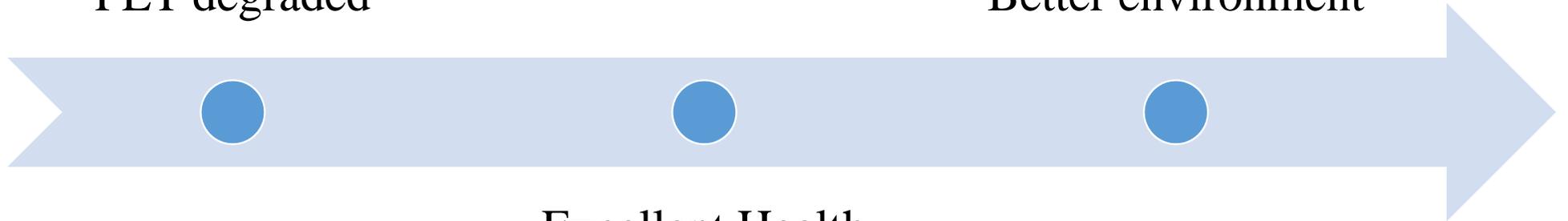
Look at this!



OUR SOLUTION

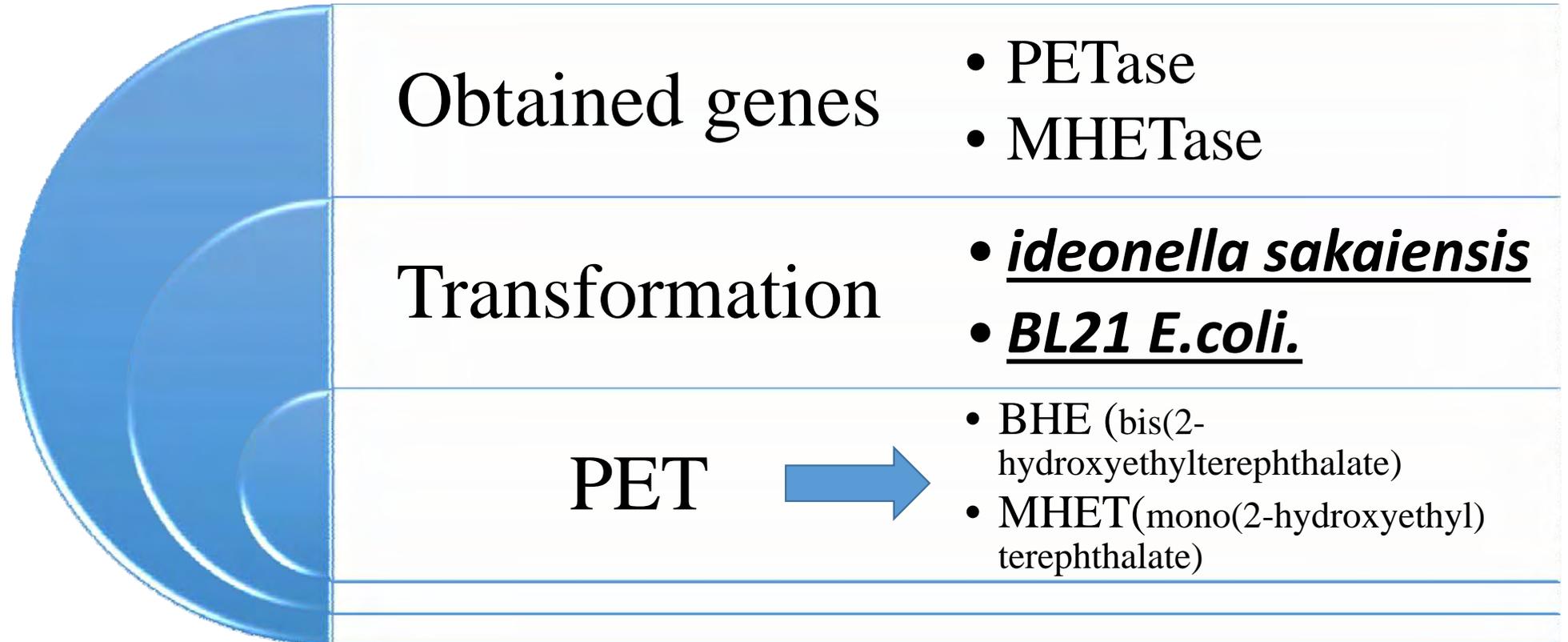
PET degraded

Better environment



Excellent Health
&
Better communities

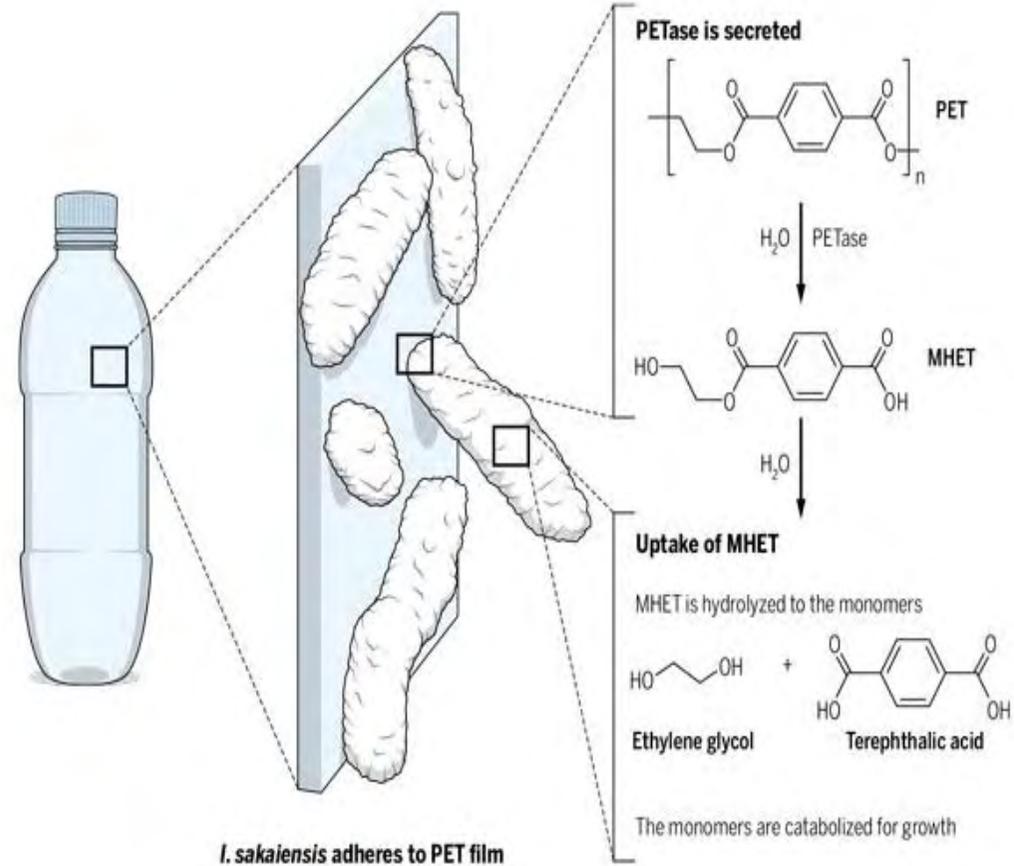
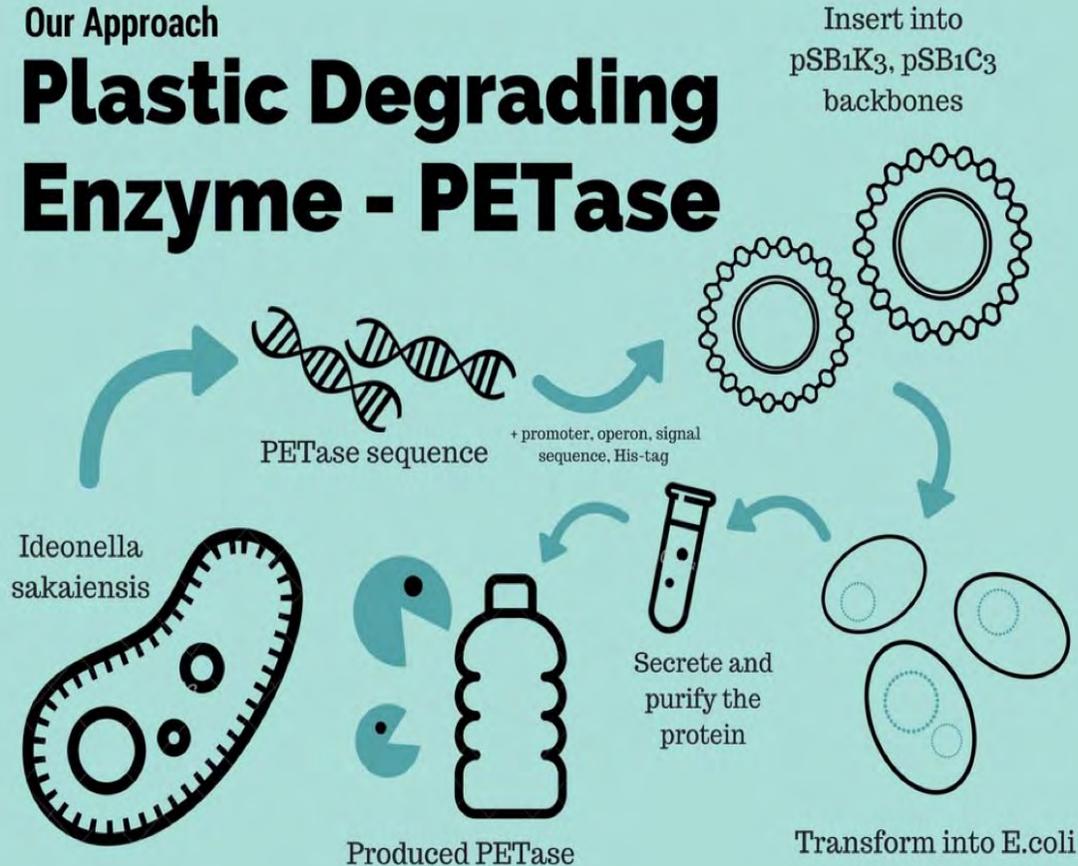
Project protocol.



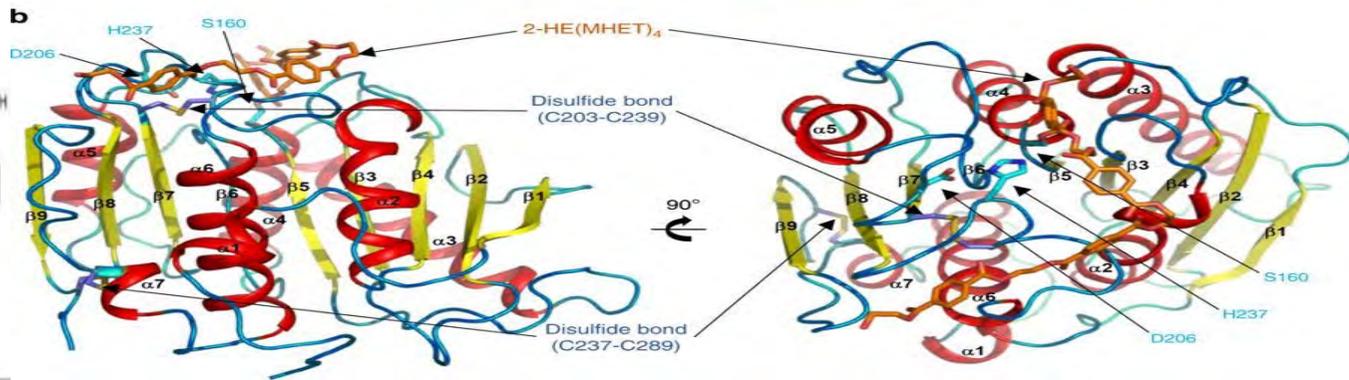
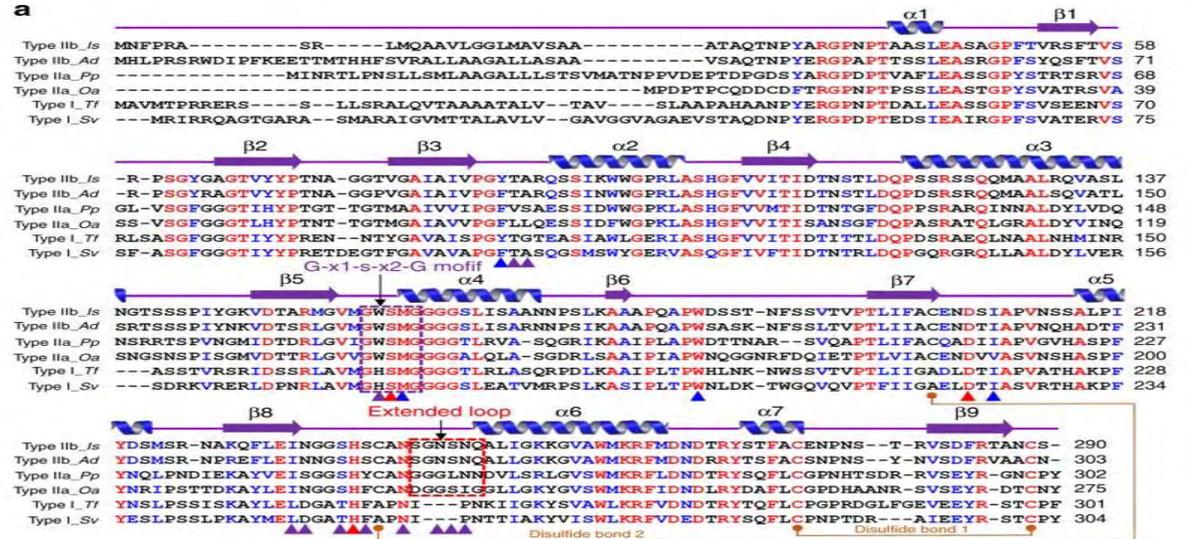
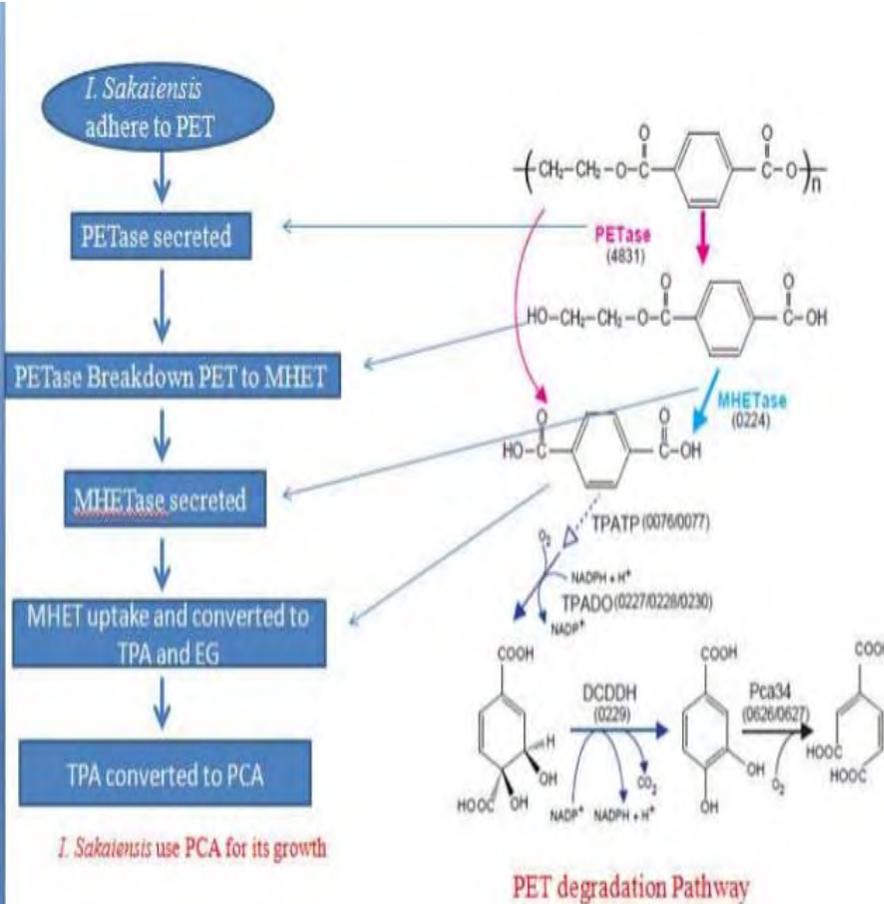
THE MAIN APPROACH

Our Approach

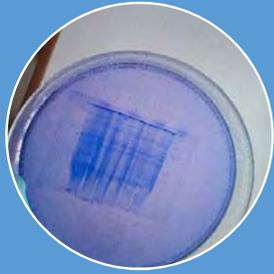
Plastic Degrading Enzyme - PETase



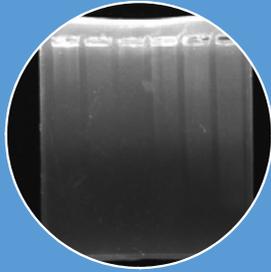
Degradation Pathway.



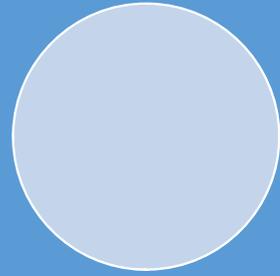
Transformation , Restriction digest and expression



Transformation.



Restriction digest



Expression



Lab Constraint.

- During our expression, we failed to get very clear results.
- Trouble shooting.

(Cloning and expression vectors.)

The future!

- **Large scale production and Developing a kill switch.**
- **Bio fuel.**
- **Purifying and Packaging ethylene glycol.**

Jamboree preparations

- Inter-lab study.
- Part characterization.
- Human Practice and public engagements.
- Collaborations.
- Attributions.

Interlab study.

- Couldn't complete. (Fluorescein plate reader*)

Part Characterization.

- BBa I20270 using *BL21* in cooperated gene

About our Human practices and public engagement (Teaching and learning from the society)



Collaborations

Group 1.

- Biotech without borders.
- Umarryland.

Group 2

- Queens Canada
- Düsseldorf

Group 3

- Hamburg
- Tec-Monterey



Attributions

- Our **instructor**.
- The **Pis**.
- **Advisors**.

For more visit our wiki.

Acknowledgements



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