



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.





Look at this!



OUR SOLUTION

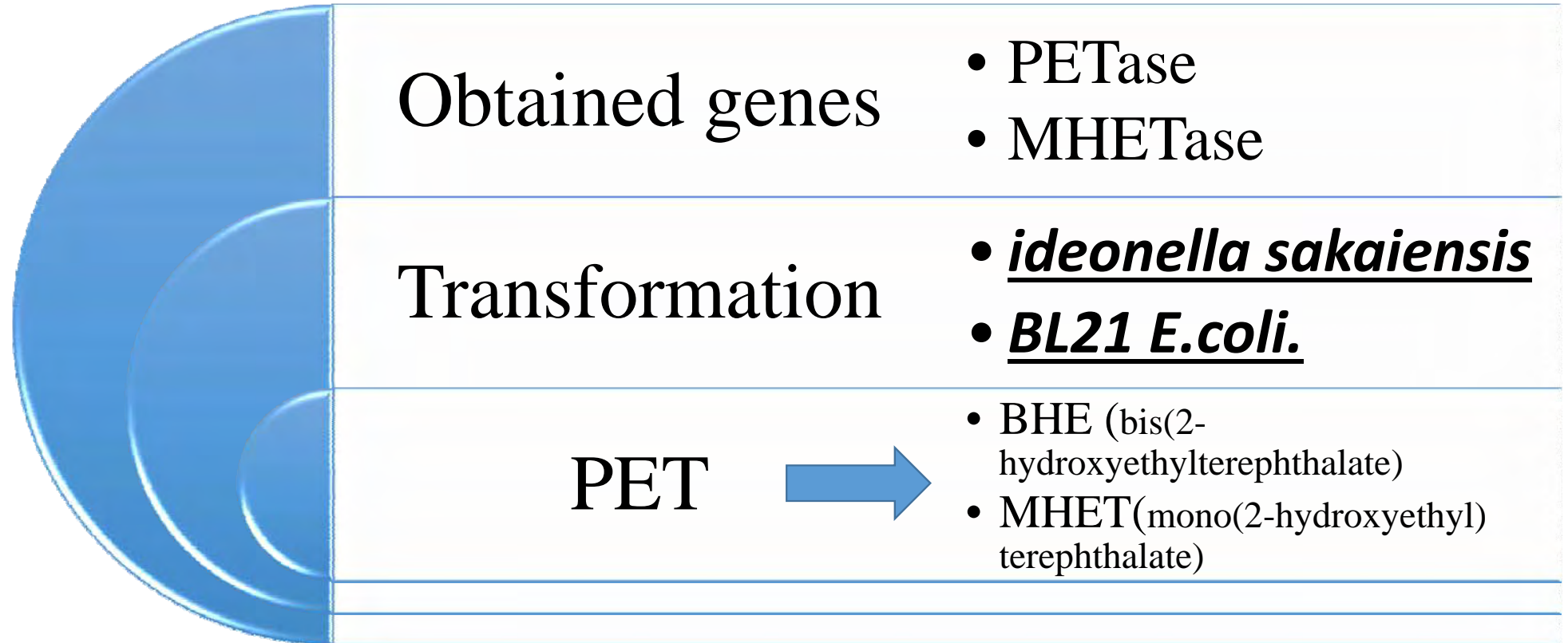
PET degraded

Better environment



Excellent Health
&
Better communities

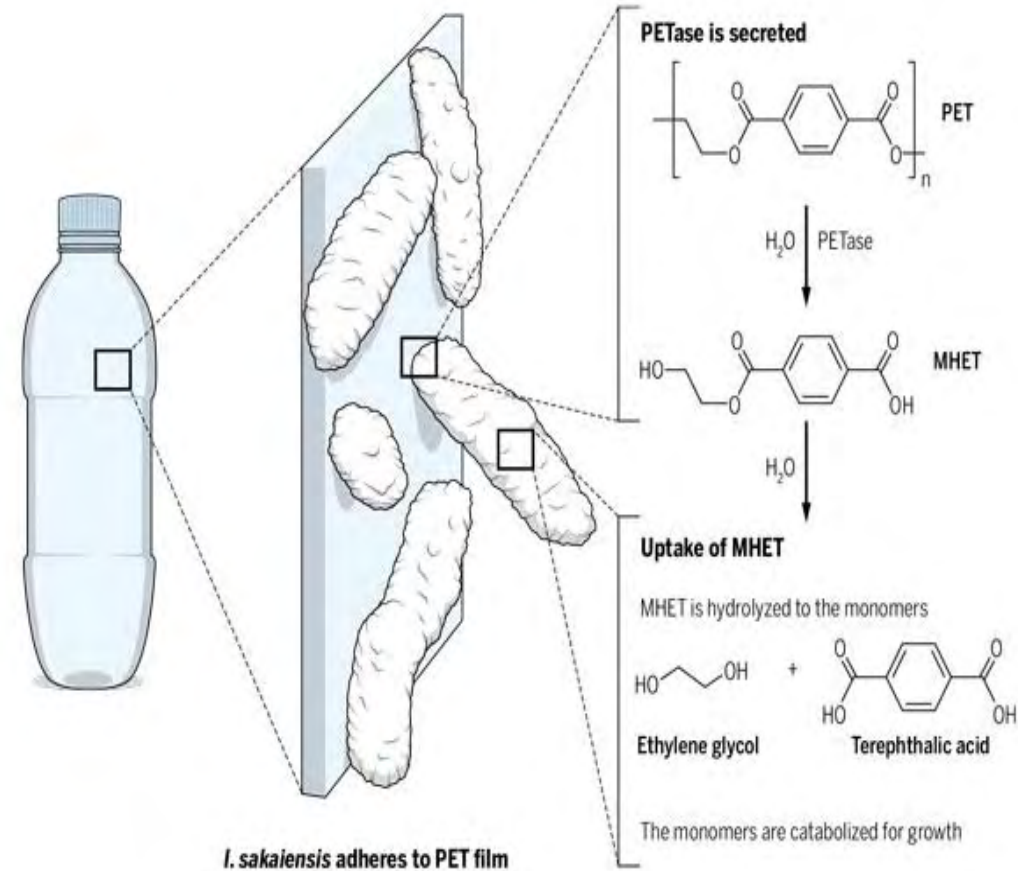
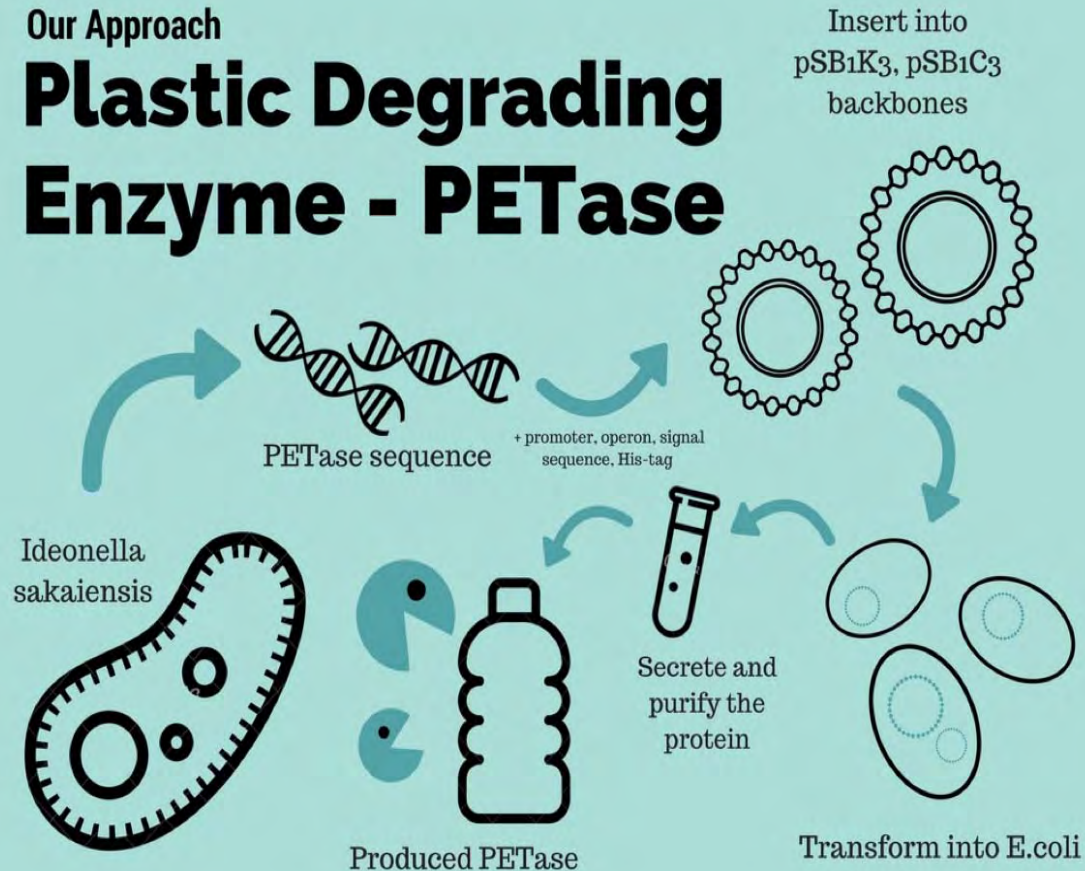
Project protocol.



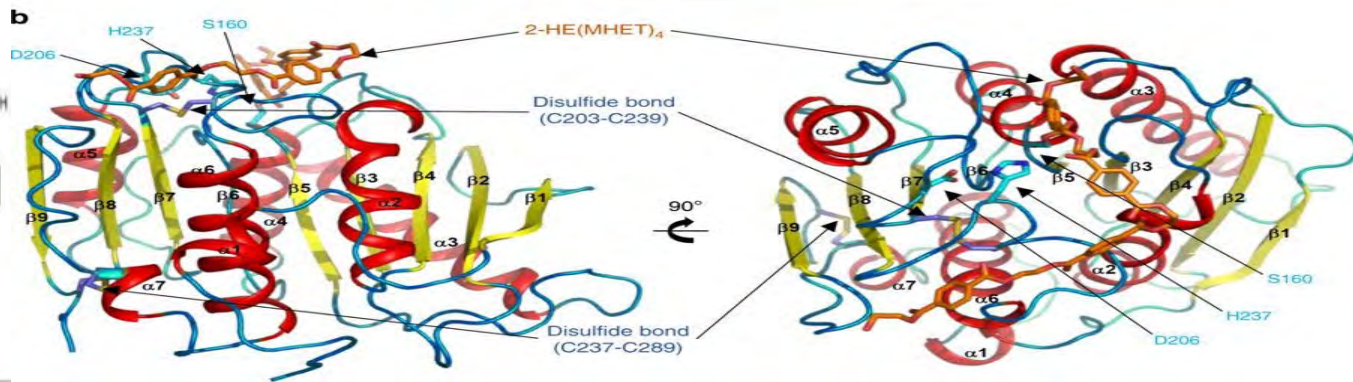
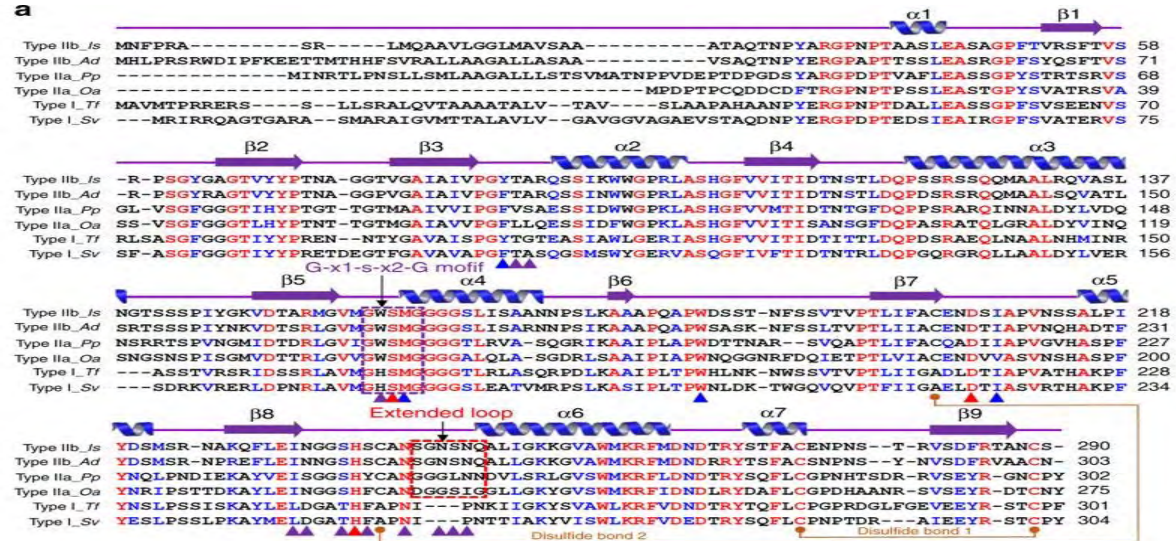
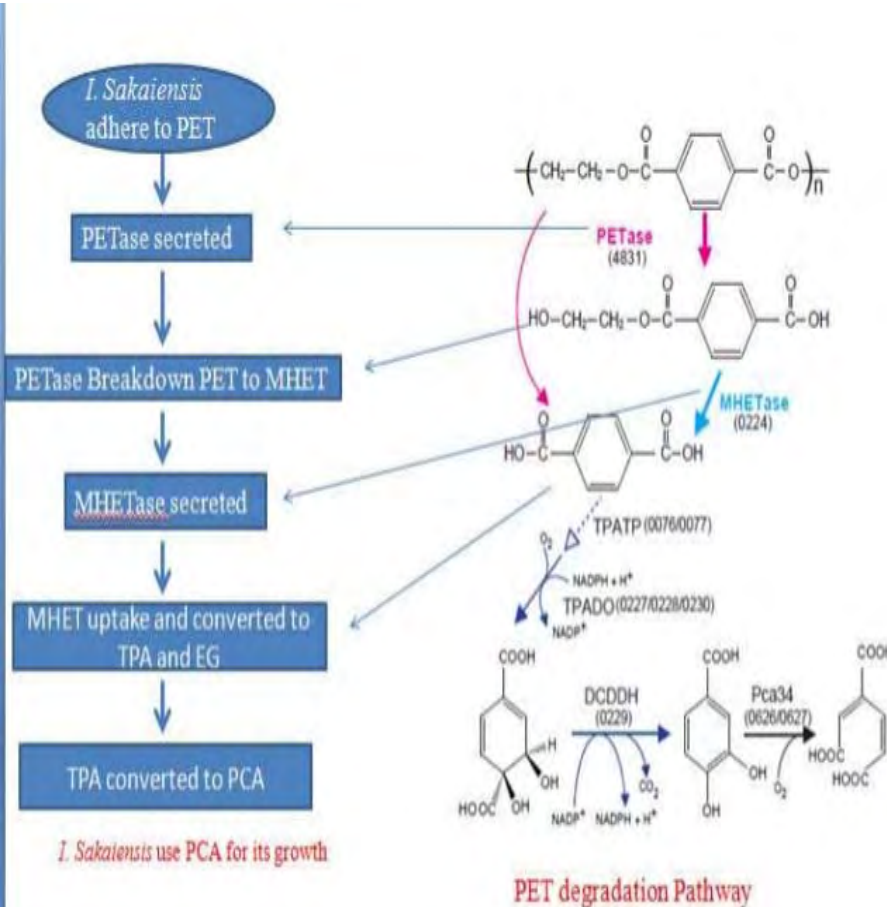
THE MAIN APPROACH

Our Approach

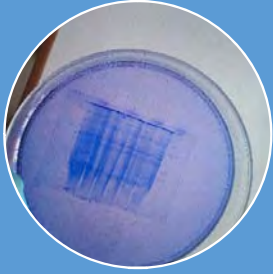
Plastic Degrading Enzyme - PETase



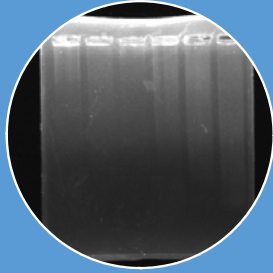
Degradation Pathway.



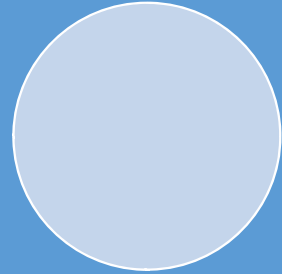
Transformation , Restriction digest and expression



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.

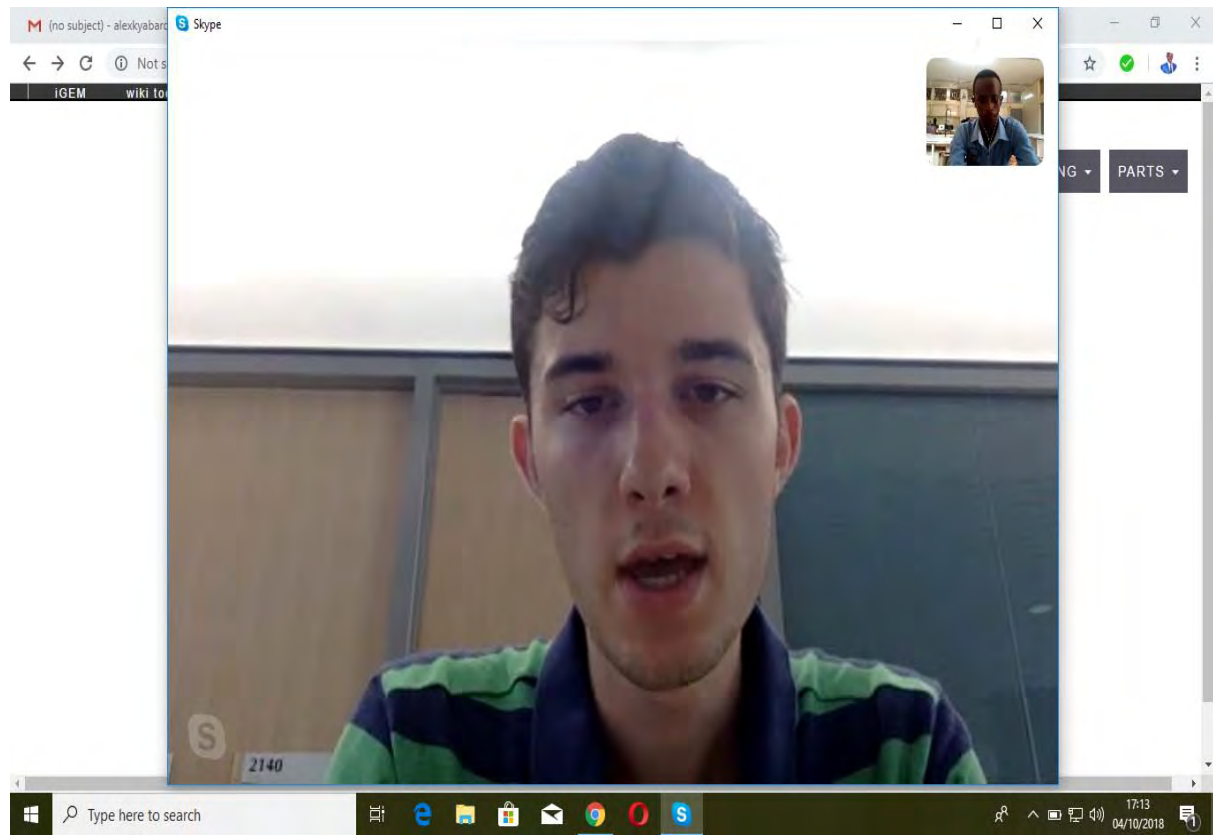
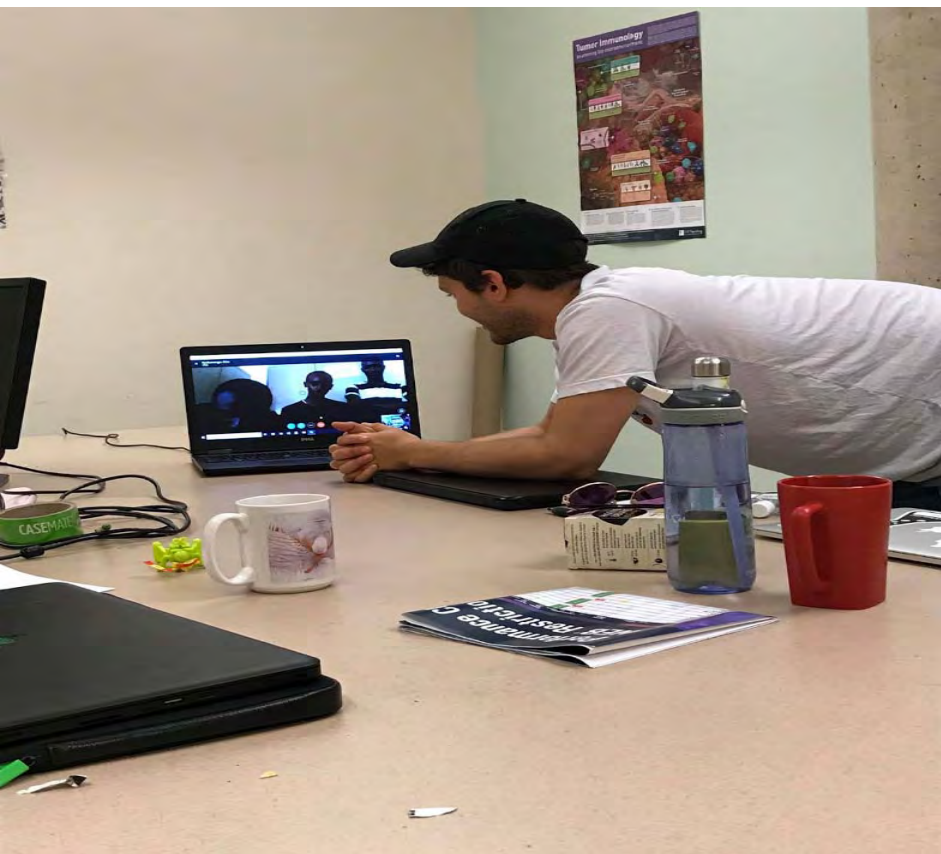
- Biotech without borders.
- Umaryland.

Group 2

- Queens Canada
- Düsseldorf

Group 3

- Hamburg
- Tec-Monterey



Attributions

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

For more visit our wiki.

Acknowledgements



MAKERERE UNIVERSITY

