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a lot



Massachusetts
Institute of
Technology



Sponsorship and Presentation Document

NGSS-TURKEY[®] Who are we?

Nevin Gökçek Science School-Turkey

iGEM is an international synthetic biology competition, which is organized by MIT. This is the first time we are joining to this competition as Atlantic Nevin Gökçek Science High School. We continue our education and studies in laboratories of Turgut Ozal University. Our aim is to represent our country successfully in this prestigious competition.



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What is iGEM?

MIT (Massachusetts Institute of Technology)

The competition which is organized by MIT is an international organization of synthetic biology competition. Synthetic biology is a field which intends to create new featured creatures through combining different mechanisms.

In this competition, which is organized since 2005, Turkey has been represented by, METU, Turgut Ozal University and Bilkent University.

METU, which has been joining the competition since 2007, received 2 bronze, 1 silver and 1 gold medal.

Bilkent University, which took part in the competition last year for the first time, got 1 bronze medal.

Turgut Ozal University has received 1 gold, 1 bronze medals and 1 special reward as it came first in a field.



Türkçe açılımı:

Uluslararası Genetiği

Değiştirilmiş Makineler

iGEM and Us

Last year competition was organized between high school students. In the competition that we took part for the first time, Turgut Ozal University is accompanying us with its success and experiences of the previous years.

Our ongoing studies are carried on in the laboratories of Turgut Ozal University. We also get help from the undergraduate students of Turgut Ozal University who have participated in teams of iGEM.

The project that we participate, iGEM is not restricted with the scientific projects. Here are the fields we are competing:

- The best gene (natural)
- The best presentation
- The best publicity
- The best testing method
- The best modeling
- The best software
- The best procedure
- The best web site



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Our Social Work Plans

To achieve the success in all these fields, here are the things we will do;

- Opening a booth in a much frequent shopping center, gathering the attention and informing the public about synthetic biology
- Publicizing synthetic biology and iGEM through TV, radio channels, Internet.
- Introducing synthetic biology to high school, primary school and pre- primary school students by our gripping and interesting presentations
- Informing businessmen and entrepreneurs about the future of synthetic biology
- Examining the point of view of people about bacteria and genetically engineered mechanisms through surveys that we will do
- Together with an open brain storming activity ,explicating the thoughts and informing people about the possibilities of their thoughts
- Explaining the logic of synthetic biology through the game we will prepare



WHAT DO WE AIM WITH OUR PROJECT

- Acquainting the high school students ,who have interest in science, with synthetic biology and genetics which became widely popular
- Enlightening about the skills of reading and inferring a scientific paper
- With the help of studies in laboratories making students get a real life experience
- Explaining students the fun of science through activities in different schools and creating a scientific background
- Maintaining relationships with the foreign students who participate in the competition and taking part in various projects together
- After maintaining strong and good relationships with the other teams and gaining sympathy, giving an offer and claiming responsibility for hosting the iGEM competition with the support of our sponsors and governmental institutions

Representing Turkey successfully in the competition



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THE ACTIVITIES WE WILL GIVE PLACE TO OUR SPONSORS LOGOS

1. Pressing the logos of the sponsors on the t-shirts
2. Displaying the logos in the board games
3. Inserting and using the logos actively in animation games
4. Giving a place in all of the pages of our training and informing presentations we will do
5. Giving wide publicity to our sponsors' logos in the newspapers and journals we will print
6. Placing the logos of sponsors' in suitable parts of our short film
7. Displaying the logos of our sponsors' in the posters we will press
8. Giving wide coverage to the logos of our sponsors' in our website
9. Pressing the logos of our sponsors' on the hats



Sample Sponsors from some iGEM teams



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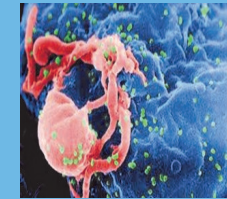
OUR COMPETITION EXPENDITURES

LABAROTORY SUPPLIES AND EXPENSES	10,000 TL
TRANSPORTATION	15,000 TL
ACCOMODATION	5,000 TL
VISIBILITY ACTIVITIES SHOR FILM IMPRINTING ON T-SHIRTS AND HATS PUBLISHING NEWSPAPERS AND JOURNALS	3,000 TL
TOTAL EXPENDITURES	28,000 TL

The IGEM competition jury prioritizes the web site they gave us in their assessment. The web site will be frozen on 16 of June 2013 and it will not be possible to make any change on the web-site after this date. After a major part of the evaluation mark is given on the web site, for the rest of the mark, the poster and the presentation which will be done on the 30th of June, is going to be considered. The deadline for being present as a team in MIT University (Boston/ USA) is 29 of June 2013. MIT is the place where the Final Event of the competition will be hold.

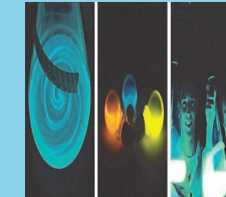
SAMPLE PROJECTS

The photographing bacteria: In 2004, bacteria's are made to provide a picture or an image as it is in their living environments by Austin University



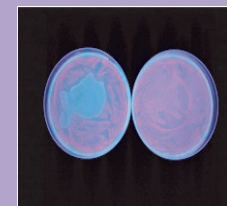
HIV detector: In 2007, University of Slovenia produced the bacteria detecting the 'HIV' virus which is the reason for AIDS.

The luminous bacteria: In 2009, Cambridge University designed and produced the luminous bacteria by transferring the genes in lightening bug to the bacteria.



Fueling bacteria: In 2011 Washington University presented an alternative solution to the issue of fuel by forming a bacteria producing biodiesel. At the same time, the team took first place in world in 2011 with this project.

Against the erosion: In 2011 the team of Imperial College London produced chemicals which help bacteria to grow up in the roots of the plants doing this, they maintained the growth of the plants in severe climate conditions as well as establishing strongly root taking of the plants to the earth.



In 2011 Fatih University prevented the reproduction of different types of bacteria in a certain place with the help of the bacteria it has programmed. By this means it succeeded in making protective surfaces against illnesses and preventing the infection before it increases.



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