"Dear Teams and Researchers,  
  
As an Istanbul Technical University, this year we are celebrating the   
250th anniversary of our university, and we are organizing the   
"International Biotechnology and Life Sciences" competition, the first   
of which will take place this year, named as BioGate.  
  
We adopt the motto "The Gate of the Future" in our competition. By   
following this motto, competitions that go beyond the typical   
competitions and include theoretical and experimental categories will   
be held in BioGate.  
  
BioGate competition includes;  
  
Experimental Stages:  
  
Biosensor = In the biosensor category, the goal is to design and   
create an analytical device that can be used to detect a particular   
molecule chosen by the teams for their project. Teams wishing to   
compete in the biosensor category must develop a portable and   
field-employable device capable of detecting the particular molecule   
they decided for their projects.  
  
Synthetic Biology = We anticipate teams to put a synthetic   
biology-based solution forward to a global issue. This issue could be   
a potential cure or diagnosis for a disease, a knowledge gap in the   
field, an improvement of an existing technique, or building a   
brand-new approach. We anticipate that teams to apply synthetic   
biology methods in their initiatives to improve the well-being of the   
world, regardless of the problem they choose.  
  
Theoretical Stages:  
Artificial Pandemic = Artificial Pandemic phase of BioGate Competition   
presents a fictionalized pandemic scenario, and teams are asked to   
develop isolation, diagnosis, and treatment for this pandemic.  
  
Astrobiology (within the collaboration of the ITU Rover Team) =   
Biogate's astrobiology branch is a competition based on one of the   
most popular topics of recent times - colonization and habitability.   
In the section, inspired by the idea of establishing a colony on Mars,   
the contestants have to look for creative and scientific solutions to   
possible needs and problems. Habitability, on the other hand, is a   
part in which many conditions that can ensure the life of a   
planet/satellite connected to a system are determined and designed by   
adhering to scientific research.  
  
Computational Biology = We want competitors to modify carrier proteins   
to make them transfer different molecules than their native substrate.   
They must show their works via molecular dynamic simulations.  
  
High School Category = In the high school category, the competitors   
can form their teams by participating in one of the three theoretical   
sections mentioned above and competing with the teams in the   
international arena.  
  
Registration for the competition will open on April 1 and will last   
until April 30. Our official competition process will start with the   
opening ceremony on May 22. BioGate will be held at Istanbul Technical   
University on 19-20 August 2023. We would be honored to see you in   
this competition. We invite every team that wishes to improve   
themselves in their fields, devise projects that have the potential to   
shape the future and have fun with their teammates. In addition, on   
the days of the competition, a program where scientists and   
researchers, who are experts in their fields will share their valuable   
experiences and thoughts, will be held and teams will have the chance   
to meet with the companies that will be in the foyer area and turn   
their ideas into reality. Our competition, which will cover   
undergraduate and high school students in its first year, will expand   
its sub-categories and extent in the next period, and we aim to be   
useful for our friends who dream of a future in this field. You can   
contact us for your questions and details. Stay tuned for   
announcements and further details to be shared in the future...  
  
For detailed information:  
  
LinkedIn= BioGate Competition  
Instagram = @itubiogate  
Twitter = @BioGateComp  
E-mail = [biogate@itu.edu.tr](mailto:biogate@itu.edu.tr)  
Website = [biogate.itu.edu.tr](http://biogate.itu.edu.tr/)"  
  
  
  
Alıntı [biogate@itu.edu.tr](mailto:biogate@itu.edu.tr):

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