"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:

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