

GENETIC ENIGMA

Step into the world of biological uncertainty, where every decision can determine whether a patient receives a lifesaving organ, an enzyme succeeds or fails, or a genetic prediction turns out to be completely wrong. Genetic Enigma is built around applied Biology: understanding concepts is only the beginning; delegates must interpret evidence, make decisions under pressure, and use biological reasoning to solve unfamiliar problems.

Delegates per team: 1-3

Round 1 :

The BioBid Auction combines biological knowledge with strategic decision-making. Before each question, only the biological topic is revealed, requiring delegates to assess their confidence and decide how many BioPoints to risk. Questions focus on applying concepts, interpreting biological information, and solving unfamiliar problems under time pressure.

Topics may include:

- Cell Biology
- Genetics
- Molecular Biology
- Enzymes
- Human Physiology
- Plant Biology

- Ecology
- Evolution
- Microbiology
- Immunology
- Reproduction
- Homeostasis
- Biological Information & Data Interpretation
- Experimental Biology
- Applied Biology

Round 2 :

In the Transplant Chain challenges delegates to identify compatible donor-recipient pairs through simulated laboratory investigations, interpreting experimental results and changing information while applying concepts of blood groups, tissue compatibility, and immune responses. Questions may cover the listed topics and other related areas of transplantation, immunology, and laboratory biology.

Topics may include:

- ABO & Rh Blood Groups
- Antigens & Antibodies
- Agglutination
- HLA Compatibility
- Crossmatching
- Transplant Rejection
- Immune Responses
- Experimental Reliability
- Laboratory Biology
- And other related areas of Biology

Round 3 :

Round 3 will be a surprise round and will be revealed at the end of Day 2.