

Genius Genetics Quiz 2024

For the 9th year, the Cyprus Institute of Neurology and Genetics (CING) is organising the CING Genius Genetics Quiz, under the auspices of the Department of Secondary General Education, Ministry of Education, Sports and Youth.

The competition offers an exclusive opportunity to high-school students with an interest in human biology topics which are associated with the activities of the Institute, to win a placement at the CING and experience from first-hand the high calibre work conducted by the Institute's leading scientists and to be involved in the process of diagnosing and researching hereditary diseases. This prize will give students the opportunity to experience the pioneering diagnostic and research activities of the Institute, an exclusive privilege reserved for the postgraduate students of the Cyprus Institute of Neurology and Genetics. An Award for Excellence in Biology "Alexis Baytelman" will also be presented, in memory of Biologist Alexis Baytelman, who specialized in clinical research.

Participation:

The Competition welcomes entries from high school students (AS Level and A' Level) from public and private schools. Each school is allowed to participate with a maximum of **3 teams**. (each team must be made up of two to three students). The school may choose a mixed team/teams of high school and/or younger high-school students.

Quiz Description:

The quiz consists of **30 questions** and each team must bring **ONE wifi-enabled device (tablet/laptop)** to use, as the quiz will be conducted using the **ClassMarker software** instead of written question papers.

Teachers and students may visit the ClassMarker website in order to familiarise themselves with the software which will be used on the day of the quiz <https://www.classmarker.com/>

- **Each correct answer will be worth (1) point**
- **Each unanswered question will be worth (0) points**
- **Each incorrect answer will be worth (0) points**

Participants may answer the questions in **Greek or in English**.

All questions must be answered within 30 minutes.

At the end of the 30-minute period, the correct answers will be presented on the Amphitheatre screen, so that the participants can see the correct answers, while simultaneously being able to view their results in real time. In cases where more than one team has achieved the highest score, the quiz will continue with extra rounds of additional questions until one team achieves the highest score at the end of a round.

IMPORTANT INSTRUCTIONS!

In order to participate in the quiz at the Cyprus Institute of Neurology & Genetics:

- **Each team should bring only ONE wifi-enabled device (tablet/laptop) per team**
- **The device must be sufficiently charged, as there will not be access to electricity ports in the Amphitheatre**
- **Screen size should be at least 10"**
- **No biology content should be saved on the device**
- **The device should have been tested by the team/teacher in order to ensure compatibility with the ClassMarker software.**

The Organisers have the right to disqualify any group found to be in violation of the rules and/or using additional means to answer the questions.

In co-operation with the Biology Inspector of the Department of Secondary General Education, the following chapters have been agreed upon as indicative syllabus for the quiz questions. For private schools, the questions will be taken from the corresponding AS Level and A' Level chapters to the stated chapters below. The quiz will consist of 30 questions, 25 of which will be syllabus-based, with the remaining 5 questions being based upon topics which reflect the "Genius" title of the quiz.

B1. Η ΧΗΜΕΙΑ ΤΗΣ ΖΩΗΣ

B2. ΤΟ ΚΥΤΤΑΡΟ

B3. ΔΙΑΧΕΙΡΙΣΗ ΕΝΕΡΓΕΙΑΣ

B4. ΑΝΑΠΑΡΑΓΩΓΗ

B5. ΕΤΕΡΟΤΡΟΦΙΚΗ ΔΙΑΤΡΟΦΗ

B6. ΜΕΤΑΦΟΡΑ ΟΥΣΙΩΝ

Γ1. ΟΜΟΙΟΣΤΑΤΙΚΟΙ ΜΗΧΑΝΙΣΜΟΙ

Γ2. ΝΕΥΡΙΚΟΣ ΚΑΙ ΟΡΜΟΝΙΚΟΣ ΣΥΝΤΟΝΙΣΜΟΣ

Γ3. ΜΟΡΙΑΚΗ ΒΙΟΛΟΓΙΑ ΤΟΥ ΓΟΝΙΔΙΟΥ ΚΑΙ ΒΙΟΤΕΧΝΟΛΟΓΙΑ

Γ4. ΚΛΗΡΟΝΟΜΙΚΟΤΗΤΑ

Γ5. ΜΟΛΥΣΜΑΤΙΚΕΣ ΚΑΙ ΜΗ ΜΟΛΥΣΜΑΤΙΚΕΣ ΑΣΘΕΝΕΙΕΣ

Γ6. ΕΞΕΛΙΞΗ ΤΩΝ ΟΡΓΑΝΙΣΜΩΝ

Participation Procedure:

- 1) Each school must register to take part in the Genius Genetics Quiz, by completing the [online Participation Form available via this link](#)
- 2) The Education Office of the Cyprus Institute of Neurology & Genetics will send an email with further information to the participants closer to the date of the competition.

Entry Fee: Free!

Deadline for Participation to the Quiz:

Schools must register their interest as explained above by **Thursday 11th April at the latest.**

The teams and representatives (Biology Teach/Head Teacher) of each school must be present at the Amphitheatre of the Institute on **Thursday 25th April 2024, International DNA Day (arrival of teams from 2p.m. Competition 3.00pm – 4.30pm)**, at the Amphitheatre of the Cyprus Institute of Neurology and Genetics, accompanied by a representative of the School (eg. Biology Teacher, Head Teacher).

Prizes:

The participants of the winning team will be invited to the Cyprus Institute of Neurology and Genetics to experience from first-hand the high calibre work conducted by the Institute's leading scientists and will observe the process of diagnosing and researching hereditary diseases. This exclusive opportunity will take place during the summer period.

An Award for Excellence in Biology "Alexis Baytelman" will also be presented to the participants of the winning team, in memory of Biologist Alexis Baytelman, who specialized in clinical research. The prize is accompanied by the sum of 300 euros and a relevant certificate of honor.

All participants will receive a certificate of participation.

Information:

Education Office of the Cyprus Institute of Neurology & Genetics

Telephone: 22392843

Email: genius@cing.ac.cy