

DNA Day 2025 – Art GENome

Art work competition for biomedical students



Rules

What is the DNA DAY Art Genome competition?

It has been more than 60 years since James Watson and Francis Crick described the double helix structure of the DNA. April 25th is the International DNA Day, which was established by the European and American Societies of Human Genetics and is celebrated all over the world with various events¹.

This year, for the 3rd time in Georgia, an art contest will be held with the participation of students in the biomedical field. The purpose of the competition is to promote the knowledge of genetics in Georgia, interest in science and development of creative thinking. The contest is dedicated to the role of the biobanks in human health.

The organizers of the contest are the Department of Molecular and Medical Genetics, Tbilisi State Medical University and the Georgian Society of Medical Genetics and Epigenetics.

Before you start, please read the rules carefully!

Terms and Conditions:

Biomedical students of Georgian and international programs can participate in the contest.

Only one submission per entrant is allowed

Participants will have the opportunity to present their works (paintings and digital graphics).

- The artwork must be relevant to the specified topic.
- The size of the physical artwork should not exceed A3 (297 x 420 mm).
- Both digital and traditional artwork is accepted.
- Digital artwork should be submitted in a high resolution (at least 300 dpi) in JPEG, TIFF or PNG format.
- Traditional artwork should be sent by e-mail: dnaday.art@gmail.com in the form of a high-resolution photograph (at least 300 dpi) and must be presented physically at the Department of Molecular and Medical Genetics, TSMU (address: 29 Vazha-Pshavela Ave., 2nd building, 4th floor).
- Each submission should be accompanied by the following information in PDF format: The submitter's name, name of institution, faculty, contact phone number and e-mail address, the title of the artwork, and a short description of how the image relates to the topic and the inspiration behind it (max. 150 words).
- The competition closes at **17:00, 18th of April 2025**

- The artwork should be sent by e-mail: dnaday.art@gmail.com (traditional works should be presented by email and physically at the Department of Molecular and Medical Genetics of TSMU).
- The files should be named in the following format: surname_name_dnaday_art_2024 (Surname and first name should be in English) Sample: Kiknadze_Ana_dnaday_art_2025;
- In the "Subject" field of the e-mail, indicate the following: surname_name_dnaday_art_2025 (Surname and first name should be in English) Sample: Kiknadze_Ana_dnaday_art_2025;
- Attach a JPEG, TIFF or PNG file and send.
- Late submissions will not be considered.

The organizing committee has the right to not consider any work that does not comply with the theme, the rules and conditions indicated above, as well as general ethical principles.

By entering the competition all entrants grant to organizers the right to publish and exhibit their artworks in any of our publicity and on the website.

All entries must be the original work of the entrant.

The competition is open to Georgian and international entrants.

All entries will be judged by a panel of judges. The judges will select a short list of artworks for publication on the website.

“Biobanks and life without diseases”

The term “biobank” usually refers to a large, organized collection of well-characterized biological samples, such as surgical biopsy specimens, blood and serum samples, various types of cells and DNA—all carefully collected for research purposes and annotated^{1,2}. One of the examples of biological collections is the UK National Biobank (<https://www.ukbiobank.ac.uk/>), which is a large-scale biomedical database and research resource containing de-identified genetic, lifestyle and health information and biological samples from half a million UK participants. The Public Population Project in Genomics (P3G, <http://www.p3g.org/>) defines biobanks as an infrastructure for collecting human biological samples and related data, such as medical, family, social, and genetic³.

Question:

In your artwork express how important biobanks are for fundamental biomedical science and personalized medicine and how will such big data contribute to a life without diseases.

You have full creative freedom when creating the work. You can touch on such topics as: data processing, genome analysis, functional analysis, genomics, epigenomics, metabolomics (other omics), from genotype to phenotype, role of biobanks in real-world diagnostics and treatment patterns, personalized approaches, etc.

For inspiration you can visit the websites:

<https://www.rcpath.org/discover-pathology/competitions/art-of-pathology-competition.html>

<https://www.lji.org/art-competition/>

<https://www.cardiff.ac.uk/news/view/1479095-medical-students-display-their-creative-talents-at-the-national-museum-in-cardiff>

Prizes:

First Place - 500 GEL

Second Place - 300 GEL

Third Place - 200 GEL

All participants will receive a certificate of participation

References:

1. Porteri C. Management of the Ethical Aspects of a Local Mental Diseases Biobank for Research Purposes: The Italian Experience. In: Mascalzoni D., editor. Ethics, Law and Governance of Biobanking: National, European and International Approaches. Springer; Dordrecht, The Netherlands: 2015. pp. 219–225
2. Malsagova K, Kopylov A, Stepanov A, Butkova T, Sinitsyna A, Izotov A, Kaysheva A. Biobanks-A Platform for Scientific and Biomedical Research. Diagnostics (Basel). 2020 Jul 16;10(7):485. doi: 10.3390/diagnostics10070485. PMID: 32708805; PMCID: PMC7400532.
3. Yuzbasioglu A., Kesikli B., Ozguc M. Biobanks as basis if individualized medicine: Challenges toward harmonization. In: Deigner H.-P., Kohl M.E., Fedor J., editors. Precision Medicine: Tools and Quantitative Approaches. Volume 4. Academic Press; London, UK: 2018. pp. 57–77.

Special dates

24 February – Submissions open

18 April – Deadline of submissions

25 April – Winners will be announced

www.geneticsgeorgi.org

Facebook: [@geneticsgeorgia](https://www.facebook.com/geneticsgeorgia)

For additional questions and support, please send an email to: geoepigene@gmail.com

Or call: 599298168 between 9.00 - 17.00 hrs.

Department of Molecular and Medical Genetics of TSMU

Scoring

All entries will be scored by a panel of judges

Scoring will be based on the following criteria:

- Compliance with the topic of the competition (5 pts)
- Technical capabilities (5 pts)
- Originality (5 pts)

Total - 15 pts

Three winners will be selected for I, II and III places. All participants will receive a certificate of participation. The winners will be announced on April 25. The winning entries will be published on the website: www.geneticsgeorgia.org.

Good Luck!