

TOPICS FOR ORAL PRESENTATIONS

Every year, the Department of Medical Biology organizes a public defense of student presentations on current biomedical problems in Bulgarian and English languages.

REQUIREMENTS – oral presentation of up to 5 minutes and thesis defense with answers to questions from a jury in front of an audience.

CONTENTS - first slide – name and surname of the author and the mentor, fac. number, specialty and group; title of the presentation. The following slides defend the author's thesis and personal position based on scientific literature on the subject.

No plagiarism is allowed! If scientific literature is used, incl. figures and photos, it is correctly cited in the slide itself.

DEADLINE - Presentations must be sent by **March 5th, 2025** to: **biology@mf.mu-plovdiv.bg**; message subject: *Biology Presentation - 2025*

ASSESSMENT – Only 6 presentations will be allowed to be defended publicly, which will be finally prepared in a team with a Bulgarian student who has chosen the same topic under the supervision of a professor from the Department of Medical biology.

Evaluation criteria: originality, scientific accuracy, convincing and competent presentation, correct answers to the questions.

PRESENTATION TOPICS

1. APOPTOSIS OR "DEATH IS A LONELY JOB"
2. STEM CELLS - "THE GREAT EXPECTATIONS"
3. GENETIC ENGINEERING - "THE ART OF BEING GOD"
4. "MAN IS WHAT HE EATS" - PRIONS / GMO
5. CANCER – THE PERFECT EVOLUTION
6. IN VIVO FETAL THERAPY – BENEFITS AND RISKS
7. NEURODEGENERATE DISEASES - MOLECULAR MECHANISMS
8. THE BIOLOGICAL CLOCK - CELLULAR AGING
9. REGENERATIVE MEDICINE - ARE WE DOOMED TO ETERNAL LIFE?
10. BIOMETRICS / IQ – WHO SETS THE NORM?
11. THE NEANDERTHAL - THE DISPLACED COMPETITOR
12. CHIMPS AND HUMANS – 1% DIFFERENCE. WHERE EXACTLY IS IT?
13. BIOROBOTICS – THE MACHINE IN THE MAN OR THE MAN IN THE MACHINE
14. CELLULAR DIFFERENTIATION – FREE CHOICE OR FORCE
15. AUTOIMMUNE DISEASES – “THE BETRAYAL OF THE IMMUNE SYSTEM”
16. miRNAs – SMALL RNAs WITH BIG FUNCTIONS
17. THE ACTIVE OXYGEN FORMS – TOXINS OR SIGNALS
18. GMO - THREAT OR SALVATION
19. MONOGAMY OR POLYGAMY – THE CHOICE OF EVOLUTION
20. MUTATIONS – THE NECESSARY EVIL