

Teaching Program



MANDATORY CLASSES	Semester	ECTS	Lectures	Exercises
1. Bioinformatics and molecular evolution	1	6	30	30
2. Genetic engineering	1	5	30	30
3. Neurogenetics	1	5	30	30
4. Developmental genetics	1	5	30	30
5. Cancer genetics	1	4	15	30
6. Human genetics	2	5	30	30
7. Genomics	2	6	30	30
8. Genetic analysis	2	5	30	30
9. Genetics and selection of microorganisms	2	5	30	30
10. Genetics and selection of microorganisms	2	6	30	30
11. Pre-graduation practicum	3	15	-	90
ELECTIVE CLASSES	Semester	ECTS	Lectures	Exercises
1. Molecular markers	1	4	30	15
2. Genetics of somatic cell	1	4	30	15
3. Synthetic biology	2	4	15	30
4. Internet resources in molecular biology	2	4	15	30

Contact information:
DEPARTMENT OF GENETICS

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SOFIA UNIVERSITY
ST. KLIMENT OHRIDSKI
FACULTY OF BIOLOGY
DEPARTMENT OF GENETICS

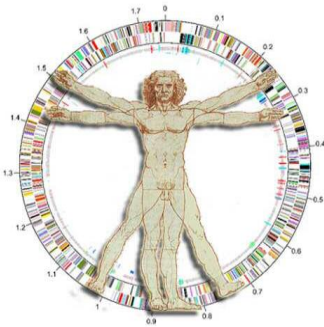
MASTER'S
PROGRAM

GENETICS and
GENOMICS



Master's Program of Genetics and Genomics aims to build deep and lasting knowledge and practical skills in the fields of modern genetics and genomics.

Lectures on genetics of prokaryotes, genomics, bioinformatics and human genetics, combined with workshops and seminars are designed for students with an interest in modern genetic research.



The program will enable students to pursue career in research and teaching, in various industries as well as in academic institutions.

It aims to motivate students to carry further research for obtaining scientific degree "doctor".

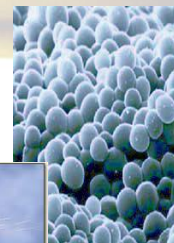
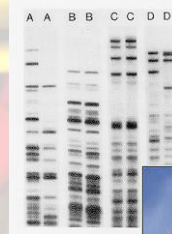
Terms of Admission:

The admission of students is done by passing a competitive examination and discussion of genetics and genomics in September.

Competitive score:

1. Grade of the examination, multiplied by 2;
2. The mean score of the university diploma
3. Assessment of Genetics.

The graduated students can pursue their career in various institutes of dealing with fundamental molecular genetic studies as well as in various departments and fields of medicine and agriculture. They can work both at home and abroad.



For the realization of the **Master's Program in Genetics and Genomics**, the Department of Genetics has specialized laboratories gene and cell engineering, bacterial genetics, developmental genetics, cytogenetics in genome analysis and laboratory genetic analysis of drosophila.

The master's program of Genetics and Genomics lasts three semesters. It has a total of 75 credits / ECTS /. The diploma thesis and pre-graduation practicum provides 15 credits. The curriculum consists of 11 mandatory and 4 elective classes.

Students select elective courses individually.

Last / third / semester is intended for preparation and defense of a thesis.

Graduated students in Genetics and Genomics acquire professional qualifications:

Master in Science in Molecular Biology with specialization of Genetics and Genomics