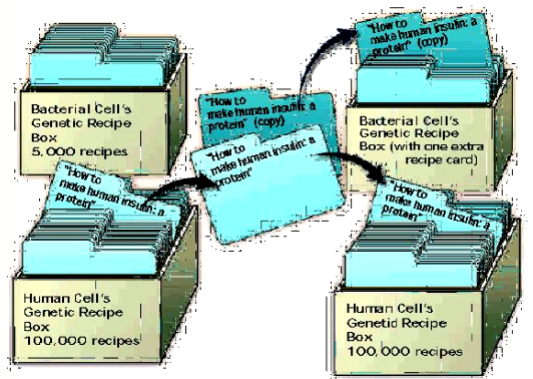


## The MS Program provides:

- Excellent theoretical knowledge in modern bioscience
- Practical approach in wide variety of applications



### In charge of the program:

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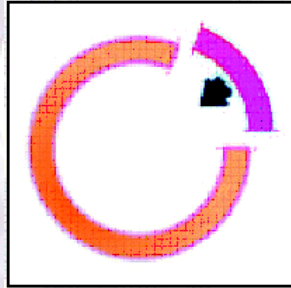
*MS students can enter teaching-oriented or research-intensive careers upon graduation*

## MASTER OF SCIENCE PROGRAM

# GENETIC AND CELLULAR ENGINEERING



*Sofia University  
Faculty of Biology  
Department of Biochemistry  
Department of Genetics  
Department of Plant Physiology*



The program has duration of three semesters and includes:

- 10 compulsory courses
- 2 optional courses
- DIPLOMA THESIS

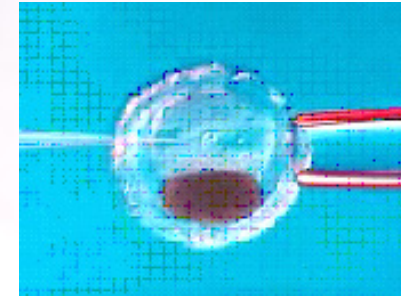
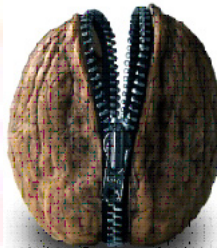
All courses contribute to overall award of 90 credits total –30 credits for each semester.

#### COMPULSORY COURSES

- ❖ Molecular Biology of the cell part I and II
- ❖ Functional Genetics (Genomics)
- ❖ Physiology and Ecology of transgenic plants
- ❖ Gene engineering of prokaryotes and eukaryotes (animals)
- ❖ Gene engineering of plants
- ❖ Bioinformatics
- ❖ Discussion club
- ❖ Pre-diploma practicals

#### OPTIONAL COURSES

- ❖ Metabolism regulation
- ❖ Phytoeffectors
- ❖ Free radicals in medicine



### *PROGRAM REQUIREMENTS:*

**Bachelor of science degree in biological and other related sciences.**

