

# Master's Degree Programme



FACULTY OF BIOLOGY  
SOFIA UNIVERSITY

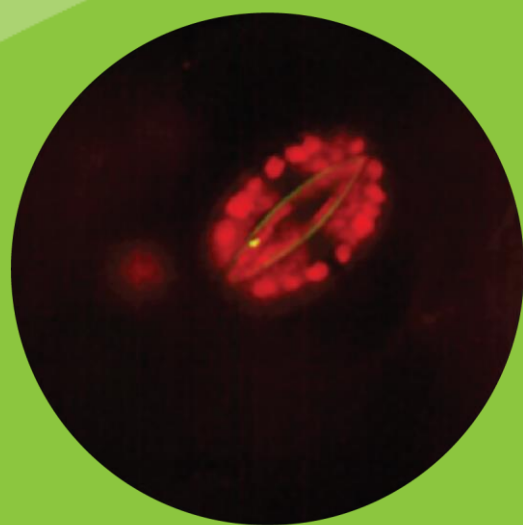


## PLANT PHYSIOLOGY

### Objective of the programme

To provide fundamental knowledge in the field of phytophysiology and its applied fields, in the modern plant biochemistry and molecular biology

### Main research directions



❖ Studying the mechanisms of the main physiological-biochemical processes characteristic of the plant organism

❖ Regulation of plant growth and development



❖ Plant-microbe interactions

❖ Methods for cultivation of higher plants and microalgae

❖ Learning of basic methods in the molecular biology and biochemical practice

❖ Studying and application of plant DNA technologies

❖ Studying the response to abiotic and biotic stress factors

❖ Principles of cultivation of valuable and endangered plant species for the purpose of their conservation and use for production of biologically active substances

❖ Target biosynthesis of secondary metabolites for use in dietetics, cosmetics and medicine

❖ Identification of the structure of plant secondary metabolites and their application in practice

### Career development

❖ Companies and organizations with relation to the exploitation of plant resources, eco-physiology, etc.

❖ Biotechnological, pharmaceutical and cosmetics companies

❖ Governmental institutions

❖ Research institutes, higher education institutions

❖ Education for awarding a PhD degree in Biological Sciences in the Faculty of Biology or in other academic structures in Bulgaria and abroad

### Opportunities for the graduate students

❖ Thesis work and defence at the Department or jointly with other Bulgarian and foreign institutions (Erasmus+ programme, etc.)

❖ Participation in scientific forums and conferences

❖ Participation in international exchange programmes



### Contacts:

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