



SUMMIT

SOFIA UNIVERSITY
MARKING MOMENTUM
FOR INNOVATION AND
TECHNOLOGICAL TRANSFER



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National Recovery and Resilience Plan



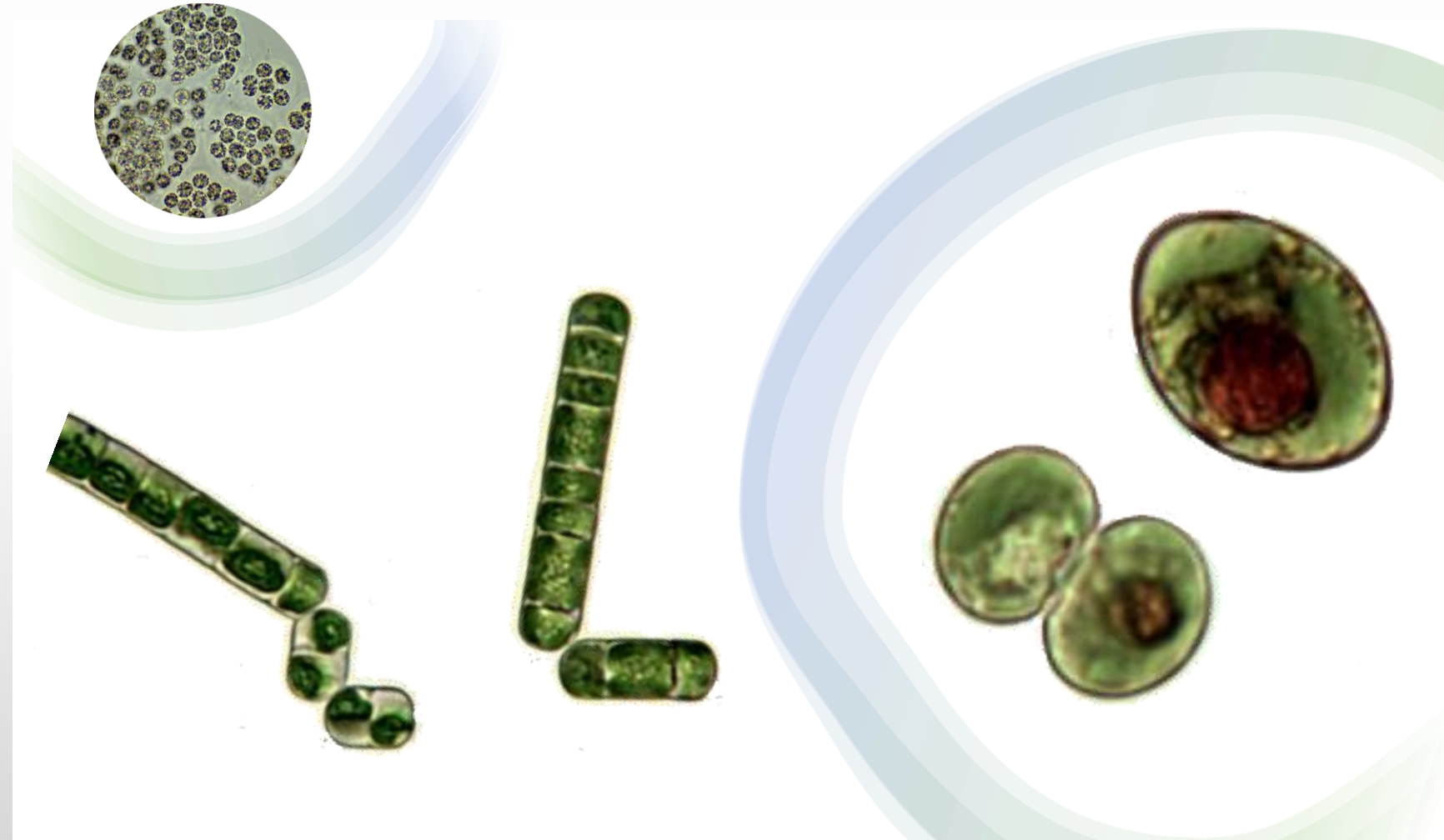
OF THE REPUBLIC OF BULGARIA

SCIENTIFIC GROUP 3.1.11.

ALGOLOGY (ALGAL COLLECTIONS)

Assoc. Prof. Dr Blagoy Uzunov

Algology - the
branch of **Botany**
which
investigates
prokaryotic and
eukaryotic **algae**





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ALGAL COLLECTIONS

+ 5 culture collections and **2 927** algal strains in **WFCC**

25 313 algal strains in **29** culture collections

ACUS – Algal
Collection of the
University of Sofia
St Kliment Ohridski

Search Results (24 culture collections from 19 countries & regions) acc. **GCM** & **WDCM** **22 386** algal strains

 RCC,France (4,812)	 CCM,USA (3,896)	 NIES,Japan (2,841)
 NCMA,USA (2,635)	 CCAP,U.K. (2,512)	 KMMCC,Korea (1,556)
 FACHB,China (711)	 BCCM/DCG,Belgium (572)	 CCCryo,Germany (494)
 NRMC,India (413)	 BCCM/ULC,Belgium (370)	 NBRC,Japan (347)
 CAUP,Czech Republic (256)	 NAIMCC,India (228)	 ALEC,Thailand (199)
 ACUS,Bulgaria (93)	 MAKU-MACC,Turkey (90)	 UCDFST,USA (79)
 IBRC,Iran (74)	 TAU-MAC,Greece (66)	 SYKOA,Russia (64)
 DBVPG,Italy (60)	 CCOS,Switzerland (16)	 CMPUJ,Colombia (2)



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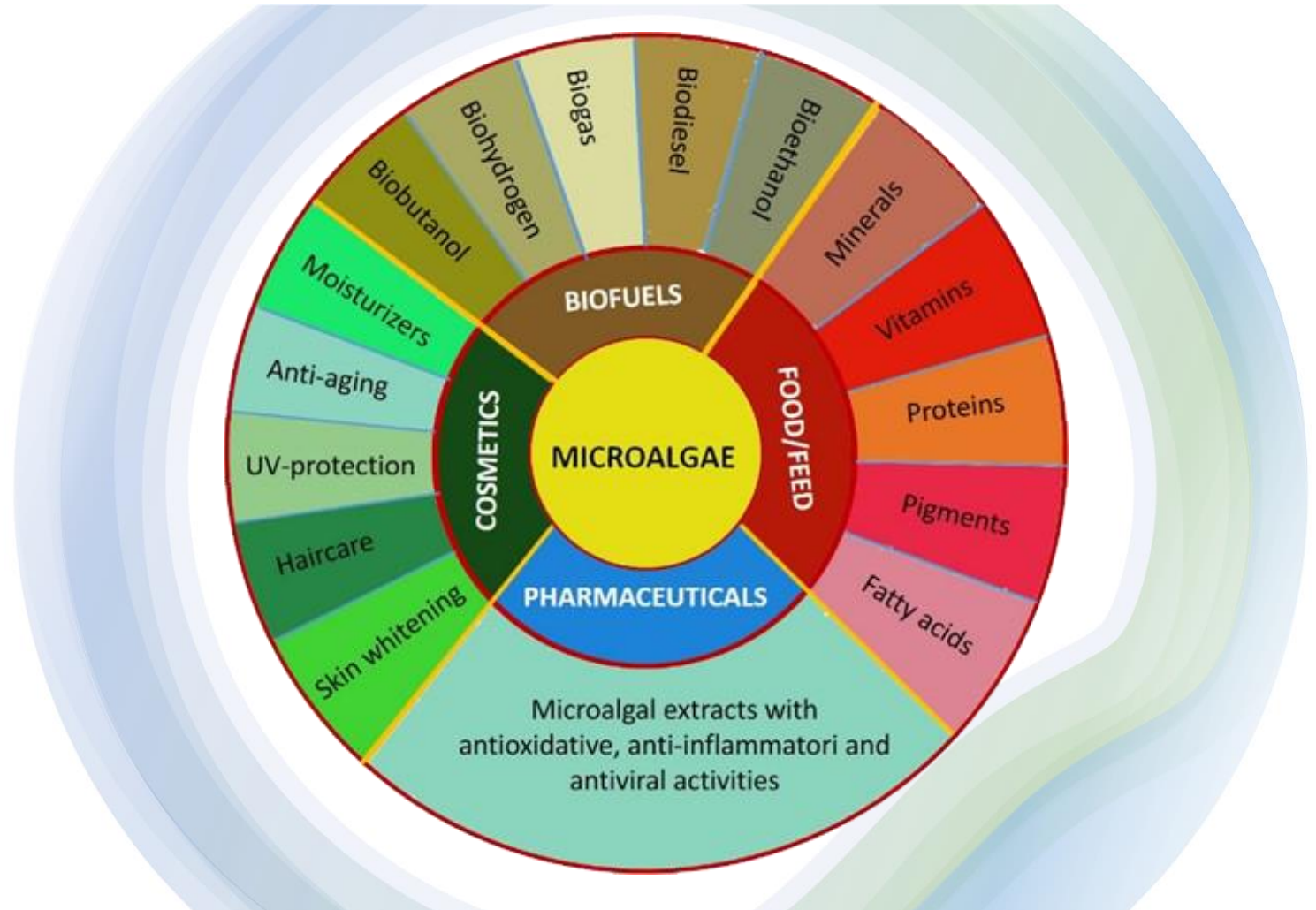
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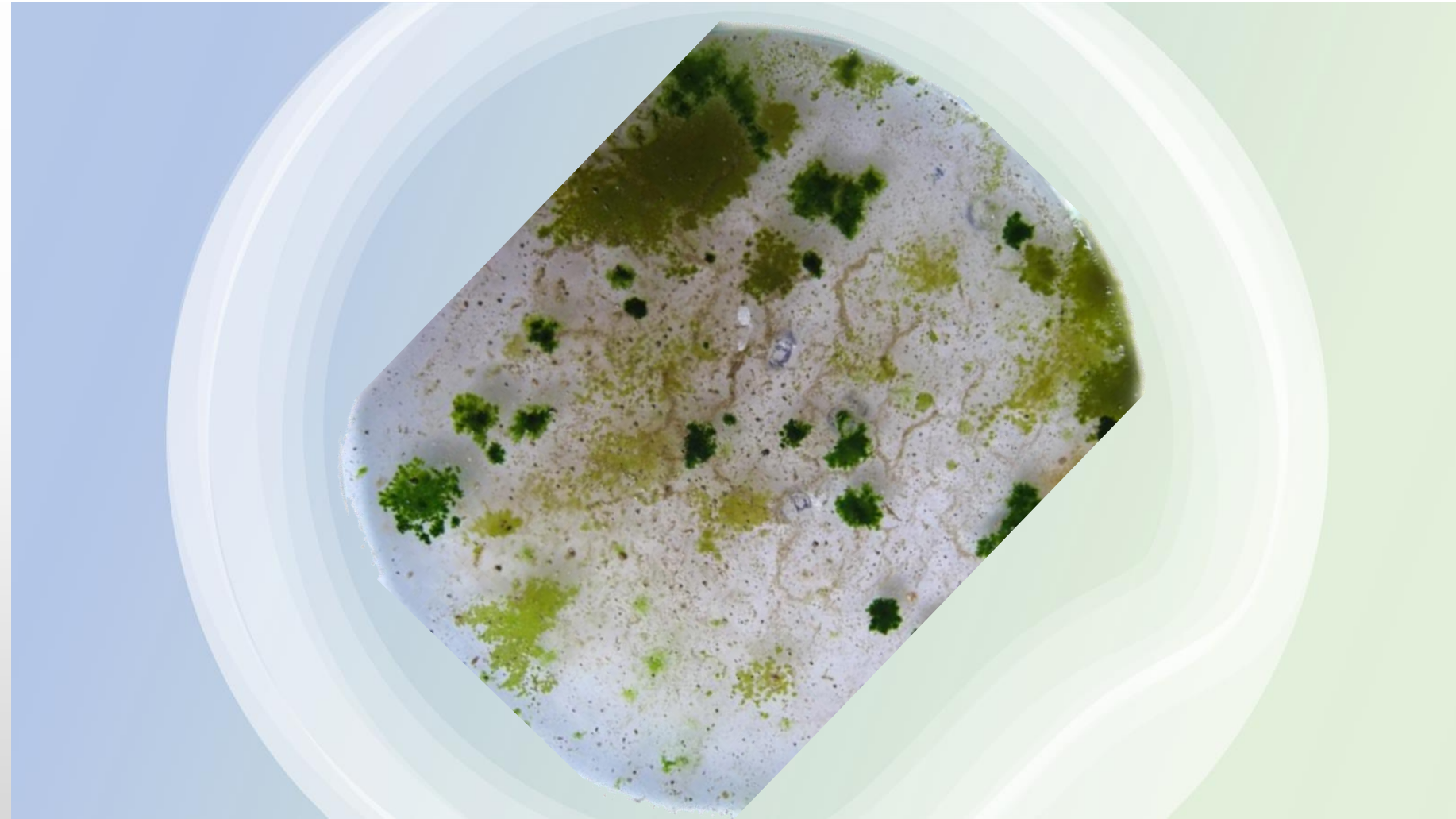
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Algal collections matching every demand from bioresearchers and bioindustries in the sectors of:

- **Health & Food**
- **Agro-Food**
- **Environment & Energy**



The overall research objective of the scientific group 3.1.11. Algae (Algal Collections) in the framework of the project is to modernize and upgrade the ACUS.





Main activities

- **Administrative activities**

Prof. DSc Dr Maya Stoyneva

Assoc. Prof. Dr Ganka Chaneva

Assist. Prof. Dr Eng. Dobril Valchev

Assist. Prof. Kristian Ivanov

Assist. Prof. Miroslav Androv



The project team



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Main activities

- **Administrative activities**

Taxonomic specialization
on phytoplankton cultures
of **Dr Sofia Celewicz** -
Poznań University of Life
Sciences



Univ. Prof. Georg Gärtner, DSc, PhD
University of Innsbruck (Austria),
Doctor Honoris Causa of Sofia University

ACUS consultants



Dr Judita Koreivienė
Head of the Laboratory of Algology and Microbial Ecology
Nature Research Centre, Vilnius
Lithuania

Main activities

- **Administrative activities**

In 2023, the room in which ACUS is housed was completely renovated:

3 growth chambers with an internal volume of 678 liters for long-term storage of Living algal collection under constant and defined conditions in terms of temperature, humidity and light.



Main activities

- **Administrative activities**

In 2023, the room in which ACUS is housed was completely renovated:

a 300-litre tubular horizontal photobioreactor for algae cultivation with a chiller and CO₂ supplier



Main activities

- **Administrative activities**

In 2023, the microscopic room of ACUS was upgraded:

an inverted microscope, equipped with a high-class camera and a micromanipulator for the isolation of microscopic algae (including the single-celled ones)



Main activities

- **Research activities –
Phycoprospecting**

Haematococcus pluvialis

Vischeria stellata

Tetradismus obliquus

Klebsormidium nitens





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Main activities

- **Research activities – Participations (5) in international conferences (3)**

International cooperation

Submission of the application form for membership of the Alliance of National and International Science Organizations for the Belt and Road Regions (**ANSO**).

GGBN received membership invitation





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Main activities

The project interrelated tasks





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Future activities

- Receiving the last piece from the ACUS modernisation programme - Stereomicroscope
- Participations (4) in the International Botanical Congress
- Preparing for ERIC-MIRRI membership after the establishment of a national consortium for Bulgarian culture collections
- Publications in IF journals



#IBC2024



IBC XX International
2024 Botanical
Congress
Madrid Spain
July, 21st - 27th, 2024



REAL JARDÍN
BOTÁNICO





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Thank you for the attention



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