

# LET'S SAVE THE WORLD

## INTERNATIONAL WORKSHOP ON TECHNOLOGY INNOVATION OF ALGAE

IRAN 2021  
ALGAE

**INAC** Iranian National  
Algae Culture  
Collection



University of  
TEHRAN



Iranian Fisheries Science  
Research Institute

# DAY 1

## Novel Cultivation and General View



### **DAVID RAMJOHN**

DIRECTOR OF ALGAE BIOMASS ORGANIZATION  
CEO ALGETERNAL GLOBAL HEAD OF SUSTAINABILITY  
AT KINDEARTH.TECH  
USA

**ALGAE PAST, PRESENT, AND FUTURE:  
HARNESSING THE PLANET'S PRIMARY PRODUCERS**



### **FRANCISCO GABRIEL ACIEN FERNANDEZ**

PROFESSOR CHEMICAL ENGINEERING,  
UNIVERSITY OF ALMERÍA,  
SPAIN

**SABANA PROJECT: DEMONSTRATING THE APPLICATION  
OF MICROALGAE IN AGRICULTURE AND AQUACULTURE**

# DAY 1

## Novel Cultivation and General View



### **BÉLA FERENC TÓZSÉR**

GENERAL AND ENGINEERING DIRECTOR OF  
ENVIROSAN DC&ENVIHORIZONT LLC,  
HUNGARY

**NOVEL ENGINEERING OPORTUNITIES RELATED TO  
NOCOVID INDUSTRIAL ALGAE COMPLEXES**



### **MÁTE RAVASZ**

MOLECULAR BIOLOGIST, DATA ANALYST, ENTREPRENEUR,  
FOUNDER AND CEO OF ALGACRAFT LTD.,  
BIOINFORMATICIAN FIOS GENOMICS,  
UK

**CULTIVATING MICROALGAE IN CLOSED SYSTEMS FOR  
FUTURE SPACE MISSIONS**



### **LUISA GOUVEIA**

SENIOR RESEARCHER AT LNEG - UBB,  
PORTUGAL

**TINY MICROALGAE TO FIGHT HUGE CHALLENGES**



# DAY 1

## Novel Cultivation and General View



### **ARDELEAN ANA VALENTINA**

RESEARCH ASSISTANT, DEPARTMENT OF MICROBIOLOGY,  
INSTITUTE OF BIOLOGY BUCHAREST,  
ROMANIAN ACADEMY, ROMANIA

**BIOTECHNOLOGICAL POTENTIAL OF PHOTOSYNTHETIC  
MICROORGANISMS (CYANOBACTERIA AND MICROALGAE)**



### **FARSHID PAJOUN SHARIATI**

ASSISTANT PROFESSOR AT SCIENCE AND RESEARCH  
BRANCH, IAU, IRAN

**CURRENT STATUS, FUTURE DEVELOPMENTS ON  
PHOTOBIOREACTORS**



### **REZA RANJBAR**

HEAD OF TECHNOLOGY-BIOTECHNOLOGY BU, CENTRE FOR  
PROCESS INNOVATION(CPI),  
UK

**HETEROTROPHIC GROWTH OF MICROALGAE-  
A PRODUCTIVE AND COST EFFICIENT ROUTE**



# DAY 2

## Health Application



### **MAURO PAVAO**

PROFESSOR AND SCIENTIST AT UFRJ.

ACADEMIC EDITOR AT PLOS ONE. SPECIAL

ADVISOR AT KELP BLUE, BRAZIL

**ALGAE IN BIOMEDICINE AND PHARMACEUTICALS**



### **MATTEO BALLOTTARI**

ASSOCIATE PROFESSOR IN PLANT PHYSIOLOGY

DEPARTMENT OF BIOTECHNOLOGY

UNIVERSITY OF VERONA, ITALY

**NOVEL BIOTECHNOLOGICAL APPROACHES TO PRODUCE  
KETOCAROTENOIDS IN MICROALGAE**

# DAY 2

## Health Application



### **JULIE A. Z. ZEDLER**

JUNIOR PROFESSOR IN SYNTHETIC BIOLOGY OF  
PHOTOSYNTHETIC ORGANISMS AT FRIEDRICH SCHILLER  
UNIVERSITY JENA, GERMANY

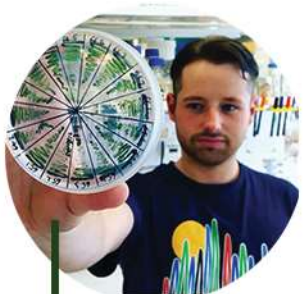
**TOWARDS SUSTAINABLE BIOTECHNOLOGY – REVEALING  
THE TRUE COLORS OF CYANOBACTERIA**



### **DAVID A. RUSSO**

ALEXANDER VON HUMBOLDT POSTDOCTORAL  
RESEARCHER, BIOORGANIC ANALYTICS,  
FRIEDRICH SCHILLER UNIVERSITY JENA, GERMANY

**EXPLORING CYANOBACTERIAL SECRETION FOR ECOLOGY  
AND BIOTECHNOLOGY**



### **HARRY JACKSON**

RESEARCH ASSOCIATE AT  
LCOLLEGE LONDON (UCL), UK

**HARNESSING THE POTENTIAL OF THE ALGAL  
CHLOROPLAST WITH SYNTHETIC BIOLOGY**

# DAY 2

## Health Application



### **LISA SCHÜLER**

RESEARCHER AT CENTRE OF  
MARINE SCIENCES (CCMAR). PORTUGAL

**STRATEGIES TO ENHANCE PIGMENT PRODUCTION IN  
MICROALGAE AND THEIR APPLICATIONS**



### **SONIA MOHAMADNIA**

POSTDOCTORAL RESEARCHER, SCHOOL OF  
CHEMICAL ENGINEERING, UNIVERSITY OF TEHRAN,  
IRAN

**ALGAE IN COSMETICS; RECENTLY APPROACHES FOR THE  
APPLYING OF PIGMENTS**



### **AMBIKA H. D.**

SUBAERIAL ALGAE SPECIALIST, ALGAL ECOLOGIST,  
TAXONOMY & CULTURING OF ALGAE, GERMANY

**ALGAE IN COSMETICS**



# DAY 3

## Industrial Application



### **OMID TAVAKOLI**

ASSISTANT PROFESSOR AT UNIVERSITY OF TEHRAN,  
CEO OF IRANIAN NATIONAL ALGAE CULTURE COLLECTION  
IRAN

**DEVELOPMENT A BIOECONOMY MODEL BASED ON THE  
GREAT POTENTIAL OF ALGAE IN VARIOUS FIELDS**



### **ROBERT REINHARDT**

CEO OF ALGEN, ALGAL TECHNOLOGY CENTRE,  
SLOVENIA.

**OVERVIEW OF ANAEROBIC DIGESTION TECHNOLOGIES AND  
ROLE ALGAE CAN PLAY IN CONNECTION WITH AD IN  
NUTRIENT AND ENERGY RECOVERY FROM WASTE STREAMS**



# DAY 3

## Industrial Application



### **CLAUDIO LEDDA**

DIRECTOR OF RESEARCH & INNOVATION AND  
BOARD MEMBER, LIVEGREEN, ITALY

**IMPROVEMENT IN ORGANIC SPIRULINA CULTIVATION  
AND BIOREFINERY FOR NEW MARKET SOLUTIONS**



### **LUCIE NOVOVESKA**

SENIOR RESEARCHER IN ALGAL BIOTECHNOLOGY CULTURE  
COLLECTION OF ALGAE AND PROTOZOA (CCAP),  
SCOTTISH ASSOCIATION FOR MARINE SCIENCE (SAMS),  
UK

**ALGAE IN BIOTECH, SPECIFICALLY PIGMENTS AND  
WASTEWATER TREATMENT**



### **ETIELE GREQUE DE MORAIS**

JUNIOR RESEARCHER AT CENTRE OF  
MARINE SCIENCES (CCMAR), PORTUGAL

**WASTEWATER TREATMENT WITH MICROALGAE**

# DAY 3

## Industrial Application



### **NITIN TRIVEDI**

ASSISTANT PROFESSOR, DBT-ICT CENTRE FOR  
ENERGY BIOSCIENCES, INSTITUTE OF  
CHEMICAL TECHNOLOGY, INDIA

**MACROALGAL BIOREFINERY: A SUSTAINABLE APPROACH  
TO HARVEST STREAM OF PRODUCTS FROM MARINE  
BIO-RESOURCE**



### **MAHSHID SEDGHI**

MICROBIOLOGY MANAGER, R&D AT  
CATALGA BIOTECH, SPAIN

**MICROALGAE BASED WASTEWATER TREATMENT**



### **RAMÓN ALEJANDRO DE HOYOS CANTÚ**

CEO OF ALIS ALGAE INNOVATION SOLUTIONS,  
BIOENTREPRENEUR AND BIOINNOVATION PROFESSOR  
AL AUTONOMOUS UNIVERSITY OF NUEVO LEON, MÉXICO

**NEW APPLICATIONS OF MICROALGAE BIOTECHNOLOGY  
TO CONSUMERS AND SPECIFIC INDUSTRIES**

# DAY 3

## Industrial Application



### **ALFREDO FAUBEL**

CO-FOUNDER & CFO OF CARBON BIOCAPTURE LLC,  
ENTREPRENEUR,  
USA

**CARBON CAPTURE FROM A COAL-FIRED POWERPLANT'S  
AND A CEMENT KILN'S EMISSIONS USING MICROALGAE  
AND PHOTOBIOREACTORS**



### **ASHKAN AJDARI**

HEAD OF OFFSHORE FISHERIES RESEARCH CENTER,  
IRANIAN FISHERIES SCIENCE RESEARCH INSTITUTE,  
IRAN

**MACROALGAE AS A SUSTAINABLE AQUAFEED INGREDIENT**