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<input type="checkbox"/> CA20106	Running	TOMORROW'S 'WHEAT OF THE SEA': ULVA, A MODEL FOR AN INNOVATIVE MARICULTURE	Mordehai (Muki) Spiegel	13.10.2023	25/05/2021	30 <input type="button" value="View"/>

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Action status: Running			
Start Date:	4 October 2021	End Date:	3 October 2025
		Former end date:	
CSO Approval Date:	25 May 2021	1st MC meeting: 4 October 2021	
The Action will end on Friday, October 3, 2025			

Action Chair: [Prof Spiegel Mordehai \(Muki\)](#)
Science Officer: [Dr Elif Dogan Arslan](#)
Administrative Officer: [Ms Tania Gonzalez Ovin](#)

Description

A growing interest in the development of oceanic coastal shores has arisen over the past decade, seeking alternative sustainable food sources and other valuable products. Our initiative aims at exploiting the potential of marine seaweeds in Europe. Building on the successes of previous EU and pan-European projects on seaweeds, and due the unique characteristics of the genus *Ulva* (Linnaeus, 1753), we have identified these green algae as the most suitable candidate and model organism for a novel kind of European mariculture. Much of the knowledge on *Ulva*, generated in diverse scientific disciplines and different communities, is not easily comparable nor is it shared among scientists, stakeholders, end users and the public. This COST Action proposes an innovative conceptual pathway to address these issues, significantly improving knowledge in the biology of the most promising *Ulva* spp., capitalising on their economic potential, and exploring commercial applications in the human food, animal feed, pharmaceutical industries and ecosystem service. The COST Action combines interdisciplinary approaches to the sustainable use of marine resources, encompassing all the facets of *Ulva* biology, ecology, aquaculture, engineering, economic and social sciences. This Action will lead to the development of advanced science, create business and job opportunities in the maritime and coastal economies, and have a significant impact on societal welfare. This COST Action fulfils the current 'Societal Challenges Priorities' of European Horizon 2020 strategy for food security, and its application will contribute to the UN Sustainable Development Goals 14 (UNSDG) to conserve and sustainably exploit natural resources.

Public links

- [🔗 Description](#)
- [🔗 Management committee](#)
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Available Files

- MoU
- Poster
- Brochure

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WORKING GROUP APPLICATION

CA20106 - TOMORROW'S 'WHEAT OF THE SEA': ULVA, A MODEL FOR AN INNOVATIVE MARICULTURE

Working Group Application details

COST Action Code	CA20106
First Name	Gürkan
Last Name	Diken
Email	gurkandiken@isparta.edu.tr
Gender	Male
Homepages	https://www.researchgate.net/profile/Guerkan-Diken
Country Affiliation	Turkey (TR)
Affiliation	Isparta University of Applied Sciences
Status	approved
Application Date	11-10-2021
Cost Member	Y
Working Groups	<ul style="list-style-type: none"> 1. WG 1. Ulva biology : N 2. WG 2. Ulva in aquaculture : Y 3. WG 3. Ulva as food and feed : N 4. WG 4. Bioactive chemicals and Ulva-associated microorganisms : N 5. WG 5. Ecosystem Services : N 6. WG 6 Social, legal, and regulatory aspects : N 7. WG7: Project coordination and result dissemination : N
Itc	Y
Mc Membership Status	not nominated
Category Near Neighbour	N
Orcid	N/A
Young Researcher	N

Scientific Background	As Fisheries Application and Research Center (SURAM), Isparta University of Applied Sciences, Turkey, we are planning to set up a specific unit for seaweed (Ulva) aquaculture research and production in Manavgat, Antalya, Turkey. To establish the unit, we submitted a project proposal to FAO Blue Hope Program. The proposal is under evaluation stage. In the project, a pilot ulva production facility will be constructed to study land-based and sea-based production systems. The harvested products will be processed and marketed in different segments of ulva users to investigate market potentials and risks. All critical stages from production to sales will be carried out by a meticulous review of the studies and literature regarding seaweed farming. The project will be the first in Turkey and galvanize the efforts for seaweed aquaculture in the country. During the project period, a number of research experiments will be conducted under the Mediterranean climate conditions.
Scientific Expertise	Aquaculture, fisheries
Secondary Proposer	N
Motivation	The Turkish aquaculture sector is based on mainly three finfish, seabass, seabream and rainbow trout despite willingness to diversify aquaculture. Although seaweed production represents about 30% of global aquaculture production, there is no seaweed production in Turkey. Moreover, several issues related to present aquaculture production such as environmental impacts, conflicts between various water users, public pressure against finfish aquaculture, criticisms for feeding fish with fish etc. make the sector to seek integrations with different trophic levels and new production methods. Sea weed is perceived as the perfect candidate to solve the mentioned problems and produce alternative food/feed/fertilizer and many active substances. Our first motivation to join the action is to combine our efforts and information via FAO project with the SEAWHEAT action. Second motivation is to make integration with partners around Mediterranean and European countries about ulva aquaculture research, production and dissemination.
Contribution	In FAO project proposal, we aim to provide a new alternative method to the existing aquaculture sector with an environmentally friendly alternative production and establish a model production for local/regional entrepreneurs, which can generate job for particularly women and youth. Over the course of project implementation, biology, land and sea based-culture techniques, marketing alternative products (powder, liquid fertilizer, gelatin capsule), dissemination of ulva culture will be studied. By doing so, a significant volume of experience and knowledge will be gained to make suggestions for development of legal frames and regulations of seaweed aquaculture. We aim to make contribution to working groups by exchange of information and knowledge.

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Working Group applications

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Applicant	Status	Working Groups (requested)	Working Groups (allocated)	Available for MC	Options
<input type="text"/>	Nothing selected				 Filter
Gürkan Diken Isparta University of Applied Sciences - Turkey (TR)	Approved	2. WG 2. Ulva in aquaculture	2. WG 2. Ulva in aquaculture		View 

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Working Group application

Applicant details

Name	Dr Gürkan Diken
Email	gurkandiken@isparta.edu.tr
Phone	+90.246.2146426
Primary affiliation country	Turkey

Application details

COST Action CA20106

Working Groups 2. WG 2. Ulva in aquaculture

Scientific Background As Fisheries Application and Research Center (SURAM), Isparta Univerty of Applied Sciences, Turkey, we are planning to set up a specific unit for seaweed (Ulva) aquaculture research and production in Manavgat, Antalya, Turkey. To establish the unit, we submitted a project proposal to FAO Blue Hope Program. The proposal is under evaluation stage. In the project, a pilot ulva production facility will be constructed to study land-based and sea-based production systems. The harvested products will be processed and marketed in different segments of ulva users to investigate market potentials and risks. All critical stages from production to sales will be carried out by a meticulous review of the studies and literature regarding seaweed farming. The project will be the first in Turkey and galvanize the efforts for seaweed aquaculture in the country. During the project period, a number of research experiments will be conducted under the Mediterranean climate conditions.

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Available for MC member No

Available for MC substitute Yes

Application history

29/07/2021 15:23	Gürkan Diken has submitted the application
09/10/2021 23:26	Gürkan Diken has revoked the application
11/10/2021 10:45	Gürkan Diken has submitted the application
26/10/2021 13:28	Spiegel Mordehai (Muki) has approved the application

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