



FucoSan: Newsletter No. 5

Dear reader,

This is the fifth issue of the FucoSan project newsletter. We have already achieved a lot and in the last seven months we will rev up the pace so that all planned results will be ready for the FucoSan conference on 25 and 26 August. Save the date!

Passed through the value chain – interim target was met



21.06.2019 – At the project meeting at the “Adelige Jomfrukloster” in Odense, the individual research groups communicated actively with each other. The findings from the chemical and biological methods of characterisation are building up: the relevant characteristics can now be assigned to the various fucoidan samples.

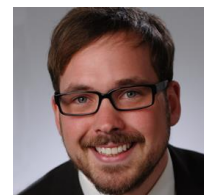
“We have passed through the targeted value chain from the harvest of the algae over the input into the database to the qualifying examination during the pilot runs. The chain is now implemented and working – therefore we have met a significant interim target of our project”, lead partner Alexa Klettner proclaims.

One of the best conferences on technology and innovation in the region



26.06.2019 — that’s DRUID19 Copenhagen. Our project partners Ferran Giones from the University of Southern Denmark, and Daniel Laufs, from Kiel University presented their working paper “The Evolution of Ecosystems for Complex Biotechnologies: Barriers for

Technology Exploration and Exploitation”. ‘At the conference, we received international attention presenting our latest results on the qualitative study on the status of fucoidans between technology exploration and exploitation. The feedback helps us to further elaborate the application case to improve the studies on how innovation ecosystems evolve and which critical success factors have to be analysed more precisely’, stated Daniel Laufs.





Young scientists make use of project results



03.07.2019 – How can EU projects initiate interdisciplinary cooperation? The FucoSan project provides concrete answers and motivates young researchers to use insights on the project's results for their final theses. Under the supervision of the project partners Ferran Giones, Mads Clausen Institute, and Xavier Fretté, Faculty of Engineering, both at the University of Southern Denmark, five final theses have been completed during the last months. In the meantime, even more scientific publications have been published within the FucoSan project: [read more](#)

FucoSan-Database should be accessible in 2020

ID	Name	Species	Location	Date
FC_AC_180711	Fucus vesiculosus	Kiel Canal	07/11/2018 10	
FC_AC_180715	Fucus vesiculosus	Germany	05/16/2018 10	
FC_AC_180716	Fucus vesiculosus	Kiel Bay	05/02/2018 10	
FC_AC_180717	Dichotylactis foeniculaceus	Kiel Fjord	04/26/2018 10	
FC_AC_180718	Fucus vesiculosus	Kiel Bay	04/19/2018 10	
FC_AC_180719	Fucus vesiculosus	Kiel Bay	04/19/2018 09:58	
FC_AC_180720	Fucus vesiculosus	Kiel Canal	04/19/2018 09:50	
FC_AC_180721	Sargassum muticum	Germany	04/11/2018 13:53	
FC_AC_180722	Fucus vesiculosus	Kiel Bay	01/03/2018 14:43	

19.09.2019 – On September 16th, the FucoSan partners came together for a project meeting. The major topic of the meeting was the database, where the project partners currently enter their data of the FucoSan samples. In the database, the results of the filtration processes and characterisations are available in a crossborder digital documentation for the first time. Initially, only 60 entries were planned, whereas now there are already more than 90. The biggest challenge was met already beforehand: The researchers from different disciplines managed to set common parameters, which need to be documented by all parties. The aim is to make parts of the dataset freely available, quotable as well as free-of-charge for the public.

FucoSan presents at the Day of German Unity



04.10.2019 – This year the Citizens' Day of German Unity was celebrated in Kiel and FucoSan was part of it! The German-Danish Interreg project presented itself on October 3rd at the "SH-Ländermeile". A total of about 500,000 visitors were counted at the festival.



FucoSan also on ResearchGate



09.10.2019 – FucoSan has now a project account on the science platform ResearchGate. Thus, the research results of the project are available in one central pool. The social network allows the German and Danish FucoSan partners to exchange detailed questions about Fucoidans and also to share their knowledge with other interested researchers. Even without a membership studies and results can be found. [Click here](#)

Nordic Seaweed Conference offers new insight for FucoSan project



11.10.2019 – This year's Nordic Seaweed Conference was a good possibility for the FucoSan project partners to discuss their newest findings on Fucoidans: "Our project was of great interest for researchers and users. And we have also expanded our network. Furthermore, our doctoral students could present their research results in front of an audience of experts," says project coordinator

Alexa Klettner, University Medical Centre Schleswig-Holstein. For Christian Koch, from Coastal Research & Management oHG, the conference was an excellent networking opportunity as well as a chance to find new project and business partners and to shed some light on the current status of the FucoSan project. The conference took place on 9th and 10th of October in Greenaa, Denmark. The topic of this year's conference was Meeting the UN sustainability goals by Innovation in Macroalgae as a Bioresource.

Young Researcher Award 2019 for Ferran Giones



14.11.2019 – Ferran Giones Valls received the Young Scientist Award 2019 donated by the BHJ Foundation. Our project partner was honored due to his studies to find out how the knowledge and the latest technologies can best be converted into value for companies in the cross border region. More than 70 participants, representing 32

different companies, attended the awards ceremony in the Mads Clausen Institute's Center for



Industrial Electronics. Within the FucoSan project, Ferran is part of the team which conducts market analyses and develops business models for products based on fucoidan extracts.

What to expect from Fucoidans? FucoSan presents first results



01.12.2019 – At the “FucoSan – from Science to Innovation Day 2019” conference on November 26th at the GEOMAR Kiel, around 70 experts talked about brown algae and the Fucoidans it contains. The renowned scientist Frédéric Chaubet from the University of Paris 13 Nord held a guest lecture on ‘Fucoidan: How a marine polysaccharide helps fighting cardiovascular diseases’.

Afterwards, the German and Danish partners presented the knowledge they have acquired during the FucoSan project. The focus was, among others, on the sustainable extraction of the raw material as well as the different techniques to provide the extracts and their chemical and biological characterisation. Other aspects were the fields of application, business models and the establishment of a Fucoidan innovation network. “This day offered an outstanding forum to discuss research results, but also to make new contacts and gain knowledge about the potentials of commercialising Fucoidans in various application fields,” states Prof. Dr Deniz Tasdemir, host of the conference.

Fucus settlement in the Bay of Kiel



18.12.2019 – In November, the FucoSan partner Coastal Research & Management started a new research project. Over a period of three years, three different shallow water sites in the Bay of Kiel will be selected to document the settlement of the bladder wrack Fucus (*fucus vesiculosus*) which is native and protected in Germany.

Besides the stone fields overgrown with Fucus, there will also be control fields (uncovered stones) at each site which will allow to track potential sowing and further growth of the Fucus. Depending on the success of the settlement, these newly settled fields could enable the extraction of fucus-biomass of different densities, and thus the assessment of potential sustainable farming on separate Fucus cultivation areas. Funding body of the project is the State Agency for Agriculture, Environment and Rural Areas of Schleswig-Holstein.



Save the date: HEALTH FROM THE SEA - the FucoSan Conference

Tuesday, 25th – Wednesday, 26th August 2020

Lunch to lunch

Wissenschaftszentrum, Kiel, Germany

Project facts

- 8 partner organisations
- 8 network partners
- Duration: Mar 2017 – Aug 2020
- Budget: 3.8 m Euro, thereof 2.2 m Euro funding
- Lead partner: University Medical Centre Schleswig-Holstein, Campus Kiel
- The project is funded by Interreg Deutschland-Danmark with means from the European Regional Development Fund. Read more: www.interreg5a.eu

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Pictures: all from FucoSan except: Scientific Day: Jan Steffen, GEOMAR, Fucus project: CRM

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