University of California
Agriculture and Natural Resources
UC Cooperative Extension

August 08, 2018

Dr. Luke Gardner
California Sea Grant Aquaculture Specialist
Research Faculty, Moss Landing Marine Labs
8272 Moss Landing Rd, Moss Landing, CA 95039

Dear Dr. Gardner:

As the Dairy Advisor for University of California Cooperative Extension, it is my pleasure to confirm my enthusiastic support for the proposal entitled ***Sea Feeds: Identification and culture of Californian marine macroalgae capable of reducing greenhouse gas production from ruminant livestock***, which is being submitted to the the California Ocean Protection Council's Proposition 84 Competitive Grant Program.

I understand this effort aims to establish the ability of seaweed to reduce methane emissions from cattle. Similar work from Australia has demonstrated extraordinary results on the ability to reduce this important greenhouse gas and the impact of cattle production on the environment. In my capacity as a local dairy advisor working with the University of California, I have the ability to engage industry stakeholders for this project. My relationship with local dairy farmers will give this team the outreach ability to conduct on-farm trials in California if the project results are promising. It is my intent to work collaboratively with the project team to bring the necessary outreach components to this project effort, if this work gets funded.

I fully support the efforts of proposal as you seek funding to reduce GHG emissions, a global problem for which this research can have critical benefit.

Sincerely,

Randi Black, PhD
UC Cooperative Extension
Dairy Advisor - Sonoma, Marin, & Mendocino Counties
133 Aviation Boulevard, Suite 109
Santa Rosa, CA 95403
Office Phone: 707-565-2648
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INNOVATION CENTER FOR U.S. DAIRY
HEALTHY PEOPLE • HEALTHY PRODUCTS • HEALTHY PLANET
10225 West Higgins Road, Suite 900
Rosemont, IL 60018

Wednesday, August 08, 2018

Luke Gardner, Ph.D.
Aquaculture Specialist
California Sea Grant
Research Faculty, Moss Landing Marine Laboratories
8272 Moss Landing Rd
Moss Landing, CA 95039

RE: Support letter for California Ocean Protection Council's Proposition 84 Competitive Grant Program

Dear Dr. Gardner,

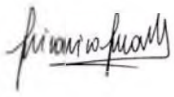
Thanks for sharing information regarding your proposal entitled "*Sea Feeds: Identification and culture of Californian marine macroalgae capable of reducing greenhouse gas production from ruminant livestock*".

The Innovation Center for U.S. Dairy provides a forum for the dairy industry to work together pre-competitively to address barriers and opportunities to foster innovation and increase sales of U.S. dairy. The Innovation Center Board of Directors is composed of CEOs and Chairmen from companies representing all segments of the dairy value chain. The Innovation Center Board has committed to support sustainability goals for GHG reduction at each stage of the dairy value chain from farm to retail, with an overall reduction goal for fluid milk of 25% by 2020.

Cow of the Future® is an Innovation Center project that supports the U.S. dairy industry's sustainability goals to continue providing products that ensure the health and wellbeing of our planet, communities, consumers, and the industry. Your proposal is in alignment with *Cow of the Future*® goals and we are prepared to offer our support and cooperation within the context of the policies and restrictions governing the Innovation Center. *Cow of the Future*® recognizes that development of novel feed additives is critical to reduce enteric methane emissions by dairy cattle and can impact value creation for dairy farmers through climate change mitigation.

We wish you success on this proposed project and look forward to the opportunities for collaboration.

Sincerely,



Juan M. Tricarico
Vice President, Sustainability Research
Innovation Center for U.S. Dairy

HOG ISLAND OYSTER CO.
NAPA
MARSHALL
SAN FRANCISCO
HUMBOLDT

August 1, 2018

I am writing to express my support for the proposal ***Sea Feeds: Identification and culture of Californian marine macroalgae capable of reducing greenhouse gas production from ruminant livestock***, which is being submitted to the California Ocean Protection Council's Proposition 84 Competitive Grant Program. The aim of this proposal supports the nascent seaweed aquaculture industry in the State of California by identifying seaweeds with potential to reduce ruminant livestock methane production and be cultured for use as a feed additive.

Seaweed aquaculture has enormous potential to expand in California and the use in animal feeds would likely be one of the applications of the product. A seaweed feed additive for livestock capable of reducing greenhouse gases would offer immense economic potential to seaweed aquaculture in the state as the beef and dairy industries are very large here in California and the U.S. alike. We believe that the environmentally friendly nature of seaweed aquaculture coupled with the mitigation of greenhouse gases would be well received among Californian residents.

Hog Island Oyster Co. would be pleased to participate in this project and highly recommend it be funded. This important research will help develop seaweed aquaculture in our state and potentially open the industry up to a very large alternative consumer.

On behalf of Hog Island Oyster Company, we look forward to working together on this important initiative.

Sincerely,

Terry Sawyer
Vice President

SALT POINT SEAWEED
510.338.6714 | info@saltpointseaweed.com
www.saltpointseaweed.com

August 3 2018

We are writing to express our support for the proposal ***Sea Feeds: Identification and culture of Californian marine macroalgae capable of reducing greenhouse gas production from ruminant livestock***, which is being submitted to the California Ocean Protection Council's Proposition 84 Competitive Grant Program. The proposal supports the nascent seaweed aquaculture industry in the State of California by identifying seaweeds with potential to reduce ruminant livestock methane production when used as a feed additive. Seaweed aquaculture has enormous potential to expand in California, and animal feed would likely be one of the applications of the cultured seaweed. A seaweed feed additive capable of reducing greenhouse gas emissions from livestock could offer economic potential to seaweed aquaculture in the state due to California's large beef and dairy industries. In addition, we believe that the ecosystem services associated with sustainable seaweed aquaculture coupled with the potential reductions in greenhouse gas emissions would be well received among Californian residents.

Salt Point Seaweed would be pleased to participate in this project and highly recommends that it be funded. We believe there are significant economic and environmental benefits to developing sustainable seaweed aquaculture in California. We see great value in this important research for informing the identification of California seaweed species with high market value, developing the culturing of these species at scale, and quanitfying the associated environmental impacts of seaweed aquaculture including bioremediation and nutrient absorption. In addition to helping to develop seaweed aquaculture in California, this research also has the potential to open up the sector to additional land-based agriculture consumers, while further helping to align food production with environmental stewardship and a sustainable food system.

On behalf of Salt Point Seaweed, we look forward to working together on this important initiative.

Sincerely,

Tessa Emmer, Co-Founder

Avery Resor, Co-Founder

Catherine O'Hare, Co-Founder

Salt Point Seaweed Company

299 Ravenscroft St.
Goleta, CA 93117
antoinette@amaseabeauty.com
www.pharmersea.com
805-722-2227

08-01-2018

To whom it may concern:

I am writing to express my support for the proposal ***Sea Feeds: Identification and culture of Californian marine macroalgae capable of reducing greenhouse gas production from ruminant livestock***, which is being submitted to the California Ocean Protection Council's Proposition 84 Competitive Grant Program. The aim of this proposal supports the nascent seaweed aquaculture industry in the State of California by identifying seaweeds with potential to reduce ruminant livestock methane production and be cultured for use a feed additive. Seaweed aquaculture has enormous potential to expand in California and the use in animal feeds would likely be one of the applications of the product. A seaweed feed additive for livestock capable of reducing greenhouse gases would offer immense economic potential to seaweed aquaculture in the state as the beef and dairy industries are very large here in California and the U.S. alike. We believe that the environmentally friendly nature of seaweed aquaculture coupled with the mitigation of greenhouse gases would be well received among Californian residents.

PharmerSea LLC has a 25-acre aquaculture lease located off Elwood pier in Goleta, CA. It is currently the only lease in state waters permitted for seaweed aquaculture. We would be pleased to participate in this project and highly recommend it be funded. This important research will help develop seaweed aquaculture in state and potentially open the industry up to a very large alternative consumer.

On behalf of PharmerSea LLC, we look forward to working together on this important initiative.

Sincerely,

Antoinette M Marquez

CEO

Ama/PharmerSea LLC