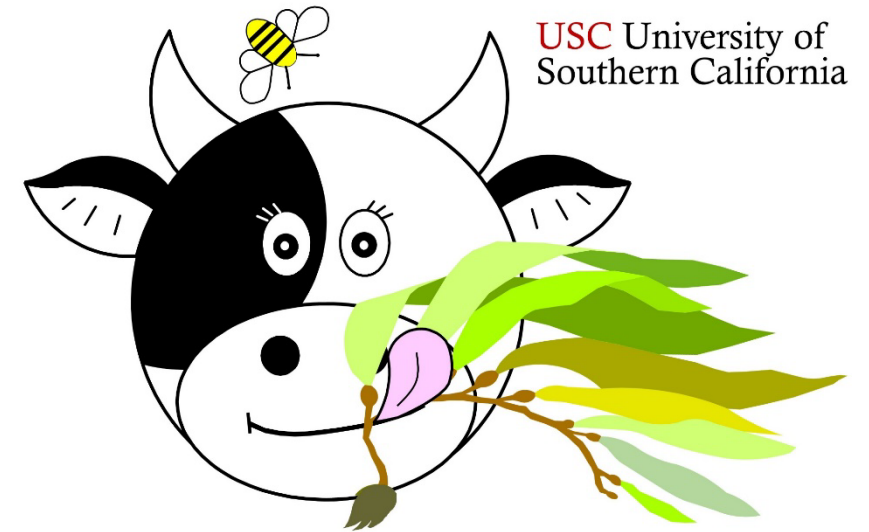


*Presented by Sergey Nuzhdin,
University of Southern California*

*On behalf of fellow Innovators:
Gary Molano and Kelly DeWeese at USC,
Scott Lindell, WHOI, Filipe Alberto, UWM
and Charles Yarish, U Conn*



USC University of
Southern California

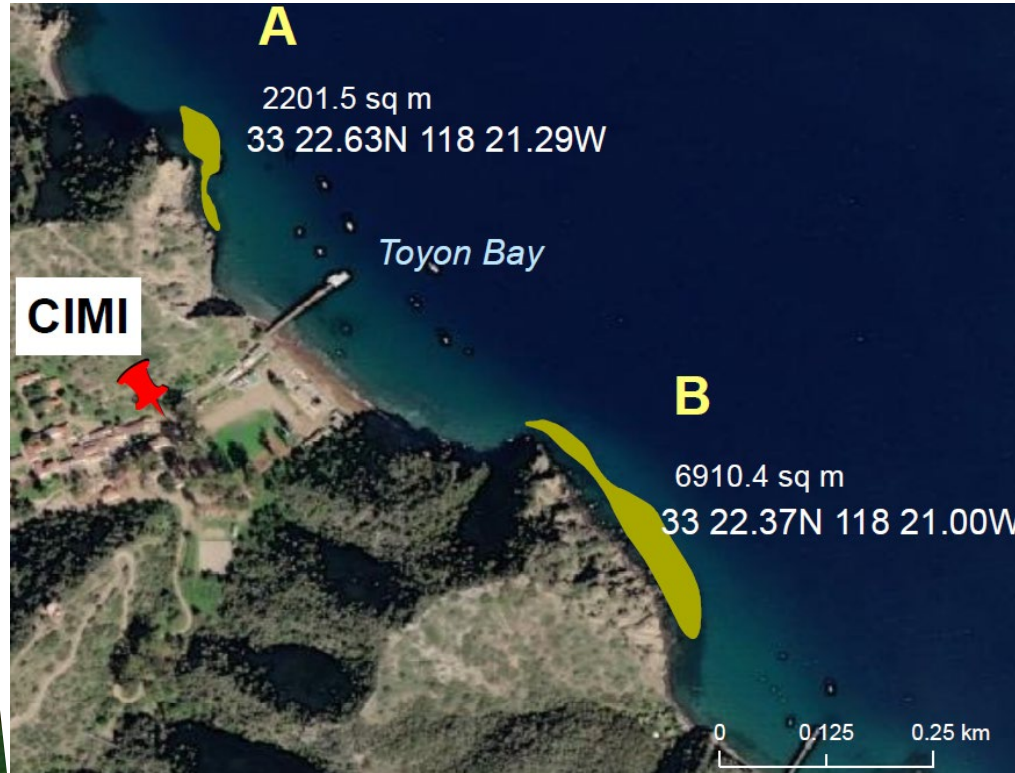
Mission

Naturally Accelerate Selective
Breeding for
Farmed Seaweeds

Impact

Unlock Growth and Scale for
Seaweed Industry

Restoration of natural kelp beds, SDSU \$660K from Walton Foundation



Collaboration with
Catalina Island Marine Institute

Alta Sea
OPC/Sea Grant

Problem Statement

Lack of Seed Innovation is Holding Back the Industry

Current Seed Production is...

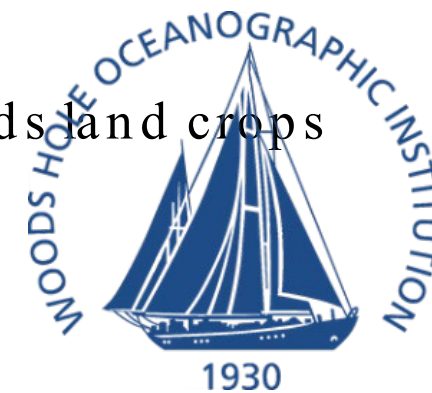
- 1. Inconsistent & Undifferentiated**
Farms depend on unreproducible chance
"wild types" and traits of harvested biomass
- 2. Slow to Innovate & Improve**
>1 year Per Breeding Cycle
- 3. Risk-averse to protect Wild Stocks**
Regulations prevent cultivation of selectively improved strains due to potential "genetic pollution" of wild populations





Our Unique Solution

“Seedless” Kelp unlocks restrictions and accelerates growth that exceeds land crops



**We screen for and rapidly breed *natural* mutations –
widely applicable across traits and species**

Commercially Tailored

~10X Faster Development

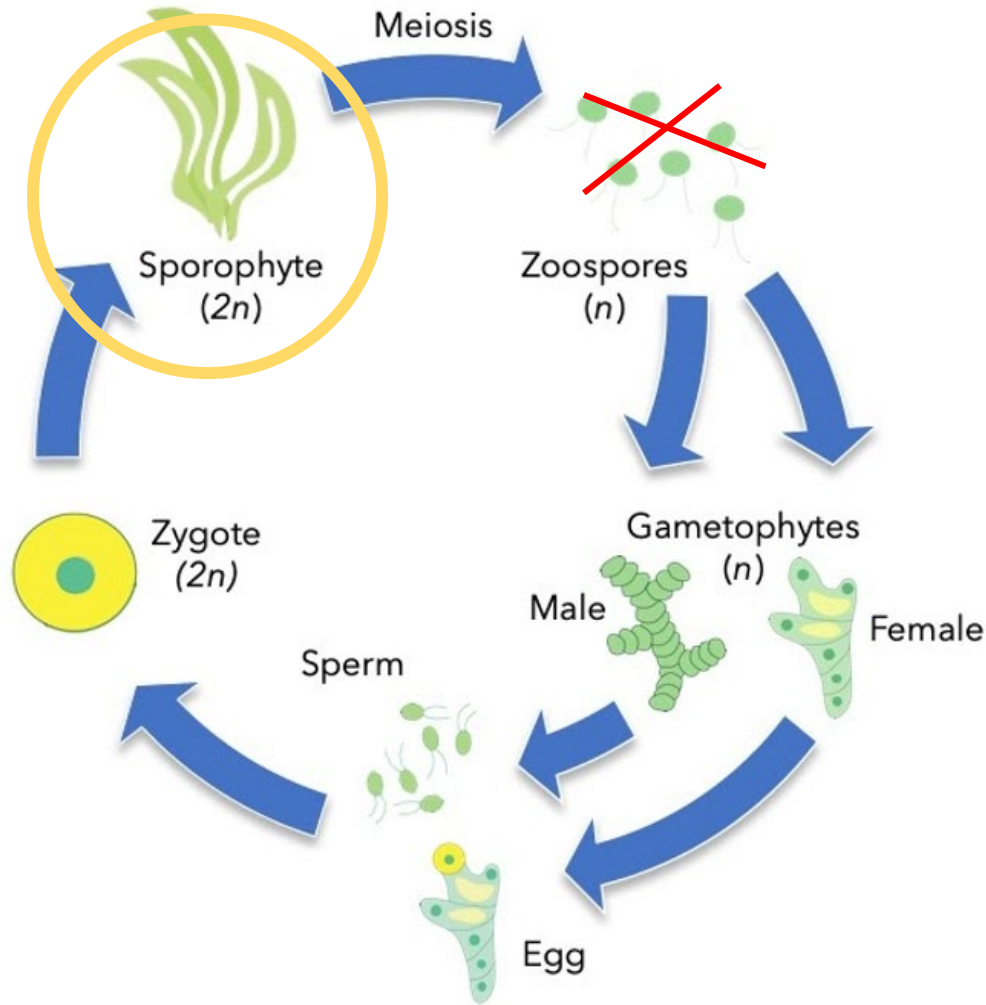


Rapid genomic screening facilitates trait discovery, selection and integration with commercial crops



5 years of our kelp breeding

How to permit massive farms?



By devising kelp that grow fast,
but can't reproduce!



Our Team

Seaweed Breeding Company



Charles Yarish



Scott Lindell



Sergey Nuzhdin



Gary Molano



John Gillis

- **PhDs + MBA with ~100 Years combined Aquaculture Experience**
- Science and industry experts with 100+ papers
- Demonstrated acumen in scaling Start-ups



Next
Partnerships, Investment, and Progress to Date

