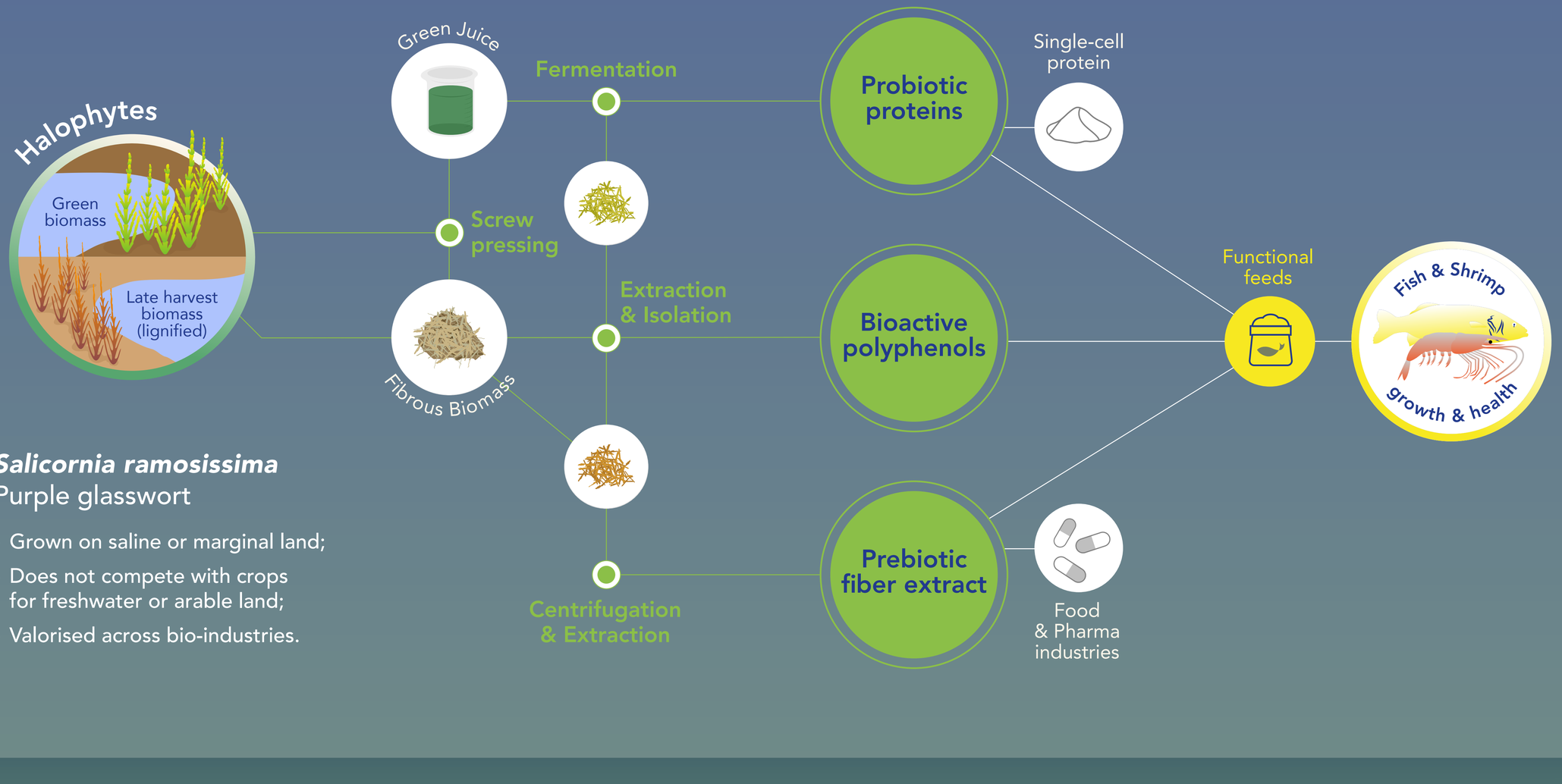
IGNITION

HALOPHYTE BIOACTIVES FROM *SALICORNIA RAMOSISSIMA*

NATURAL FEED ADDITIVES TO IMPROVE FISH AND SHRIMP HEALTH AND PERFORMANCE

SUSTAINABLE HALOPHYTE SOURCE → **CASCADE EXTRACTION PROCESS** → **BIOACTIVE FRACTIONS** → **FUNCTIONAL FEEDS**



Salicornia ramosissima
Purple glasswort

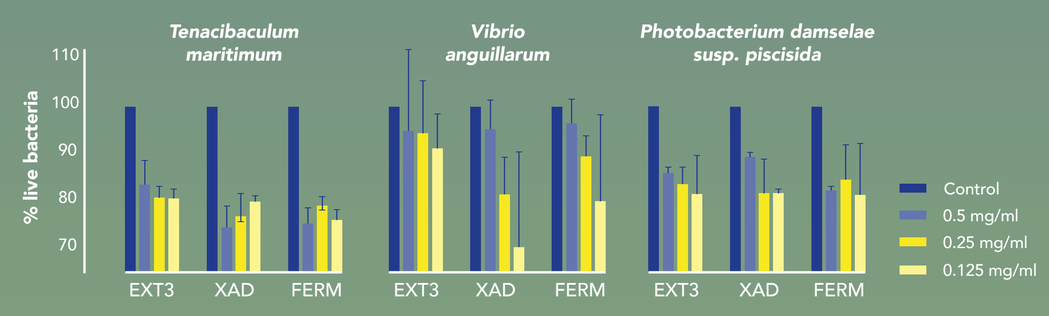
- Grown on saline or marginal land;
- Does not compete with crops for freshwater or arable land;
- Valorised across bio-industries.

VALIDATED BENEFITS

1 CONTROL OF KEY AQUACULTURE PATHOGENS

Bioactives EXT3, XAD, and FERM consistently reduced the percentage of live pathogens at all tested dosages.

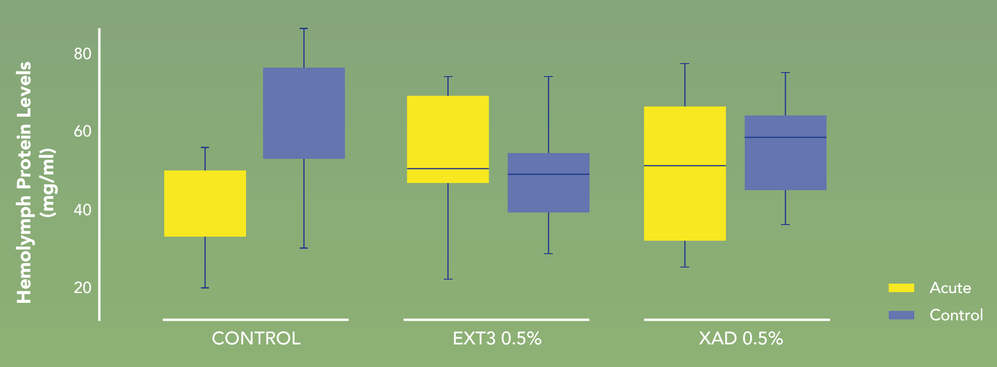
Support strategies to lower antibiotic and chemical use



2 IMMUNE-ENHANCING POTENTIAL

Whiteleg shrimp under acute air exposure stress showed hemolymph protein levels comparable to non-stressed controls when fed diets with EXT3 and XAD at 0.5%.

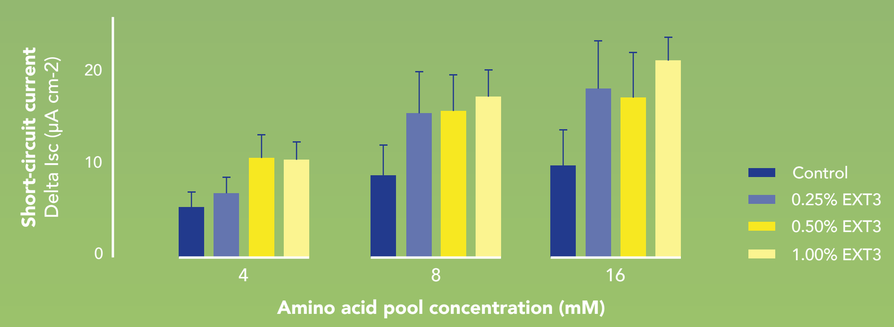
Potential to improve resilience under stress



3 IMPROVEMENT SUPPORT IN PRODUCTION PERFORMANCE

European seabass showed enhanced epithelial resistance and intestinal amino acid transport in *ex vivo* assays when fed diets with EXT3.

Potential to improve nutrient utilization



HALOPHYTE-DERIVED BIOACTIVES ARE NATURAL, SUSTAINABLE FEED ADDITIVES FOR A MORE RESILIENT AND RESPONSIBLE AQUACULTURE PRODUCTION

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Partners directly involved in this research

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