

All Atlantic Ocean Sustainable Profitable and Resilient Aquaculture

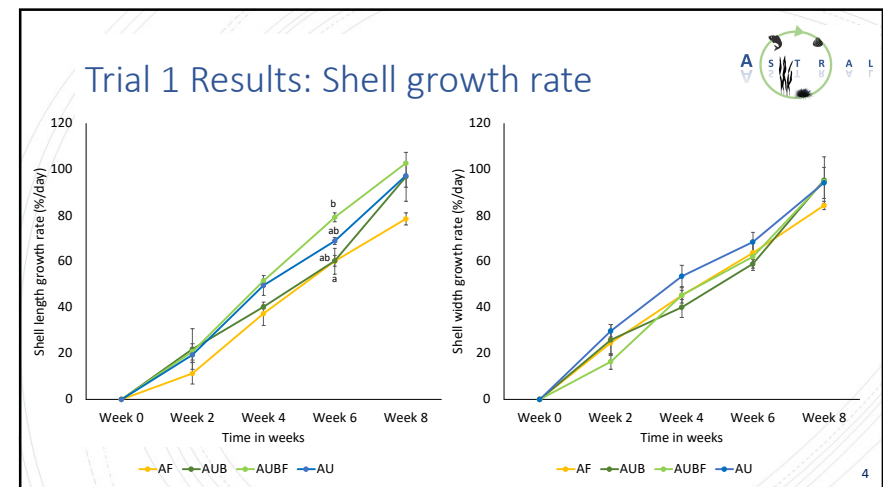
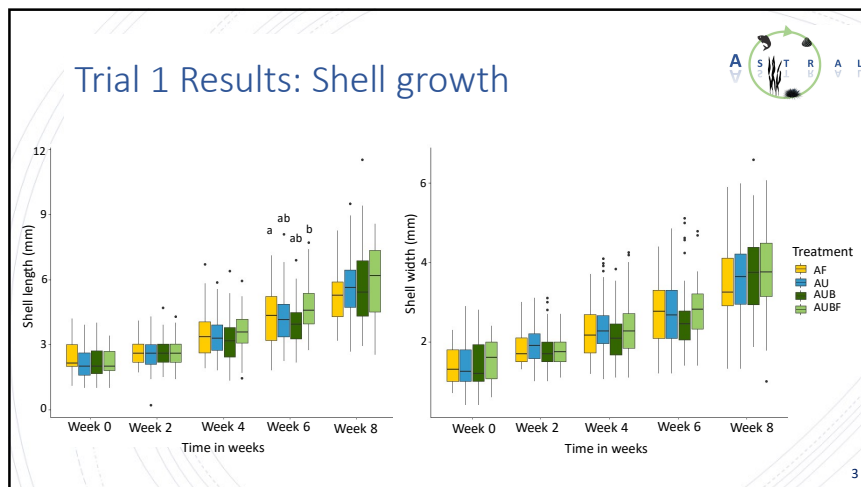
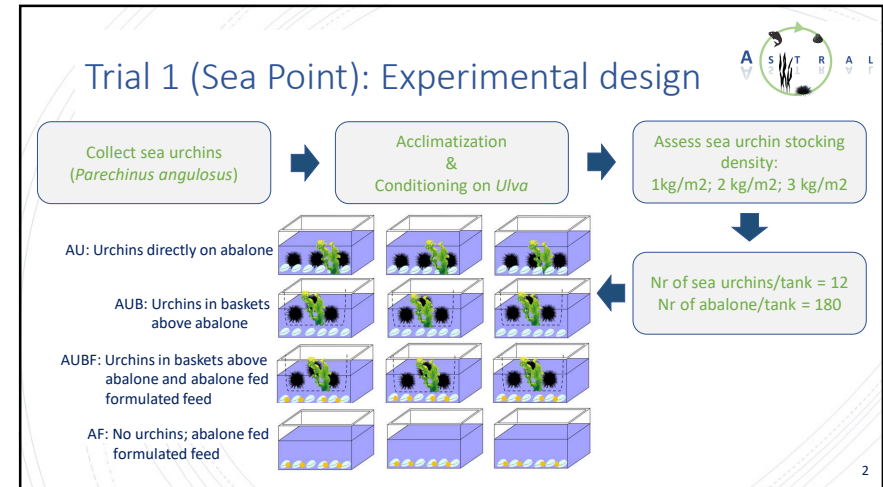
A S T R A L

A metagenomic assessment of faecal matter from the sea urchin, *Parechinus angulosus*, as a feed/probiotic for juvenile abalone, *Haliotis midae*

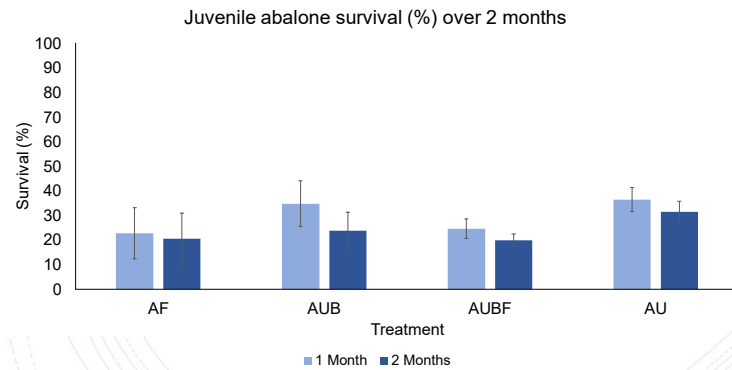
Marissa Brink-Hull

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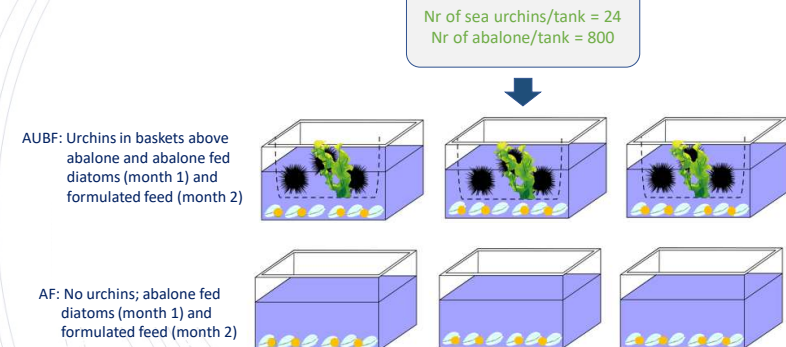


Trial 1 Results: Survival



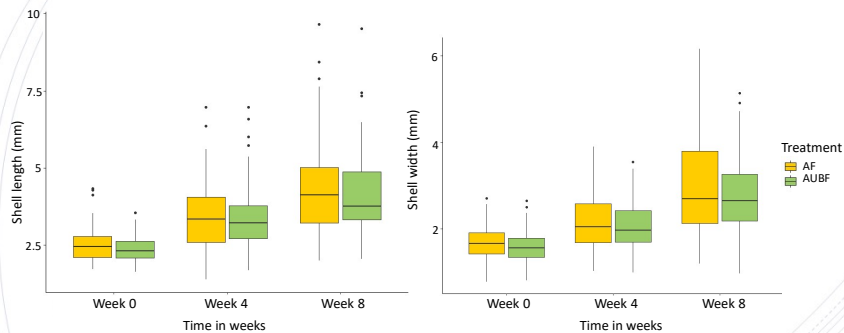
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Trial 2 (Buffeljags): Experimental design



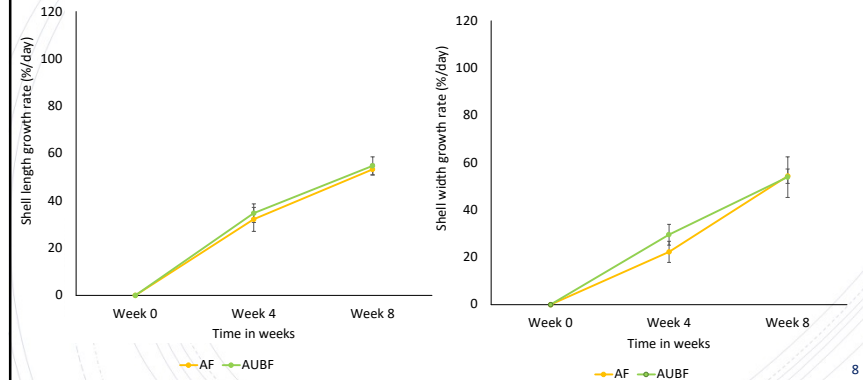
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Trial 2 Results: Shell growth



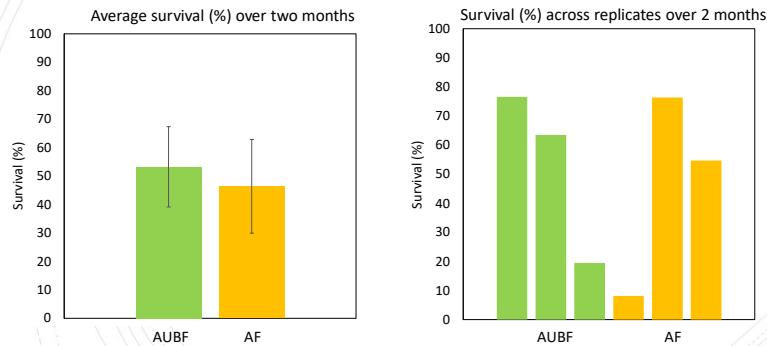
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Trial 2 Results: Shell growth rate



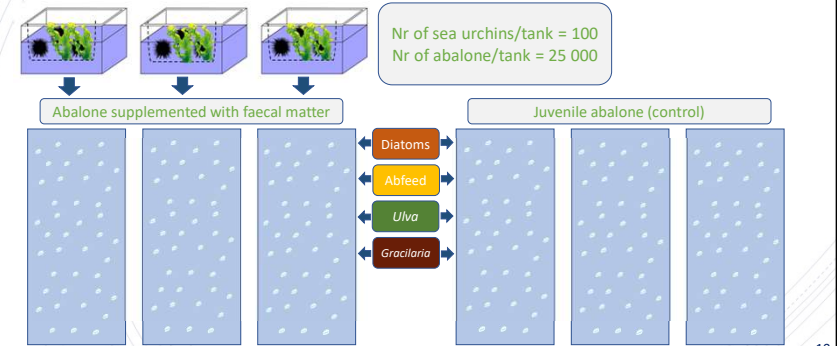
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Trial 2 Results: Survival



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Trial 3 (Buffeljags upscaled): Proposed experimental design



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Trial 3 (Buffeljags upscaled): Assessments

- Microbiome
 - Bacterial, fungal and oomycetes
 - Samples: water, feed (diatoms, *Ulva*, *Gracilaria*), faeces (urchin and abalone), urchin intestines and juvenile abalone
- Growth
 - Short- and long-term
- Survival
 - Short- and long-term
- Juvenile abalone enzymatic activity
 - Amylase and protease
- Juvenile abalone digestive tract development
 - Cross-sections
- Sea urchin faecal matter nutrient assessment

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Thank you!

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