



VIA University
College



Halophyte Extract-based Biocide vs. Conventional Biocides

a benchmark experiment

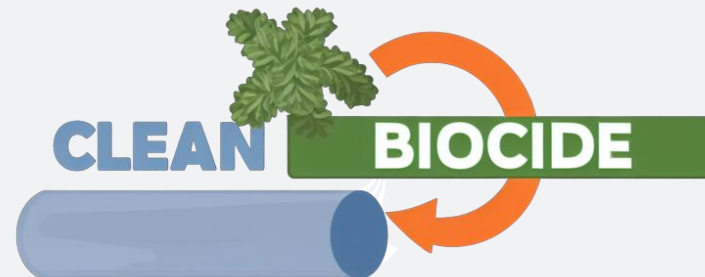
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Jürgen Howaldt: https://commons.wikimedia.org/wiki/File:Cakile_maritima-%28eurMeersenf%29_2.jpg



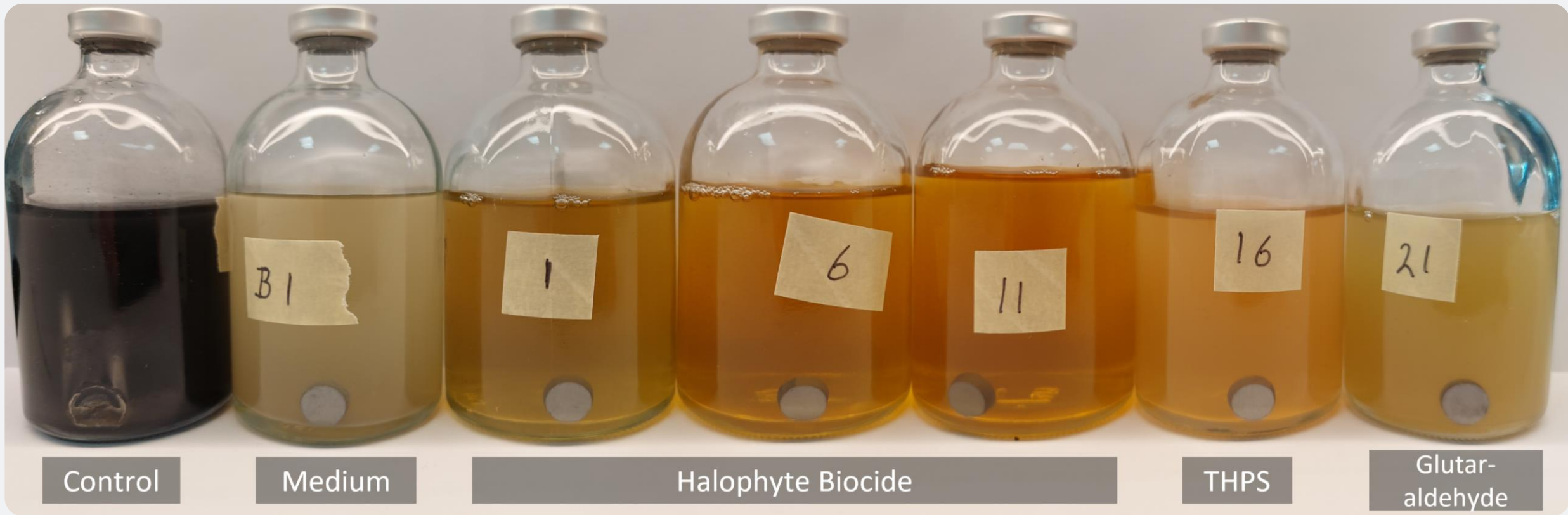
<https://www.laspilias.com/nature-of-california/plants/107-atrilex-watsonii>



<https://flora-on.pt/#/nUX>

What is a halophyte?

And why halophytes specifically?



Benchmarking experiment

Prep:

- A mixed microbial pre-culture was prepared using Postgate Medium and sea sediment as inoculum.



Flasks:

- Control: no biocide
- Medium: abiotic corrosion
- Halophyte biocide: 3 concentrations
- THPS
- Glutaraldehyde



Experiment parameters

- 20 °C
- 25 days

Measured variables

- Coupon weight loss
- Coupon pitting
- H₂S concentration