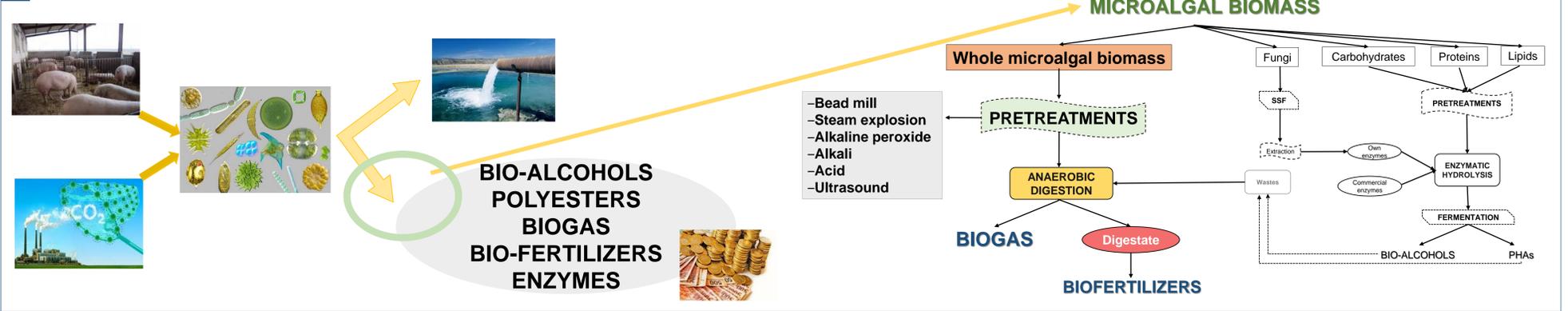


Valorization of Wastewaters via Bioenergy and Bioproducts using Carbohydrates from Microalgae

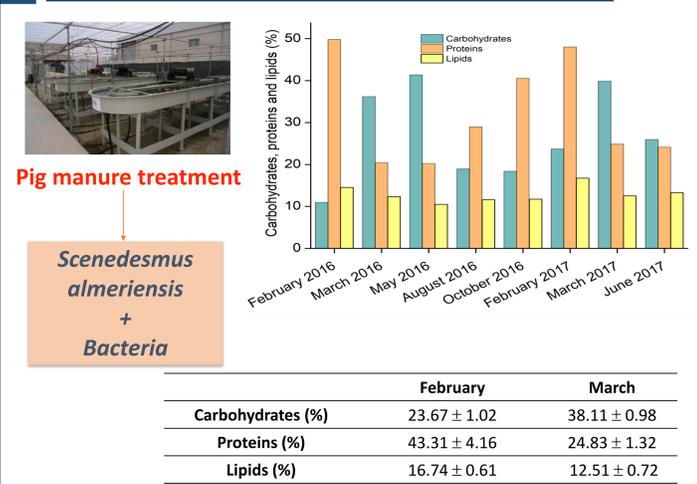
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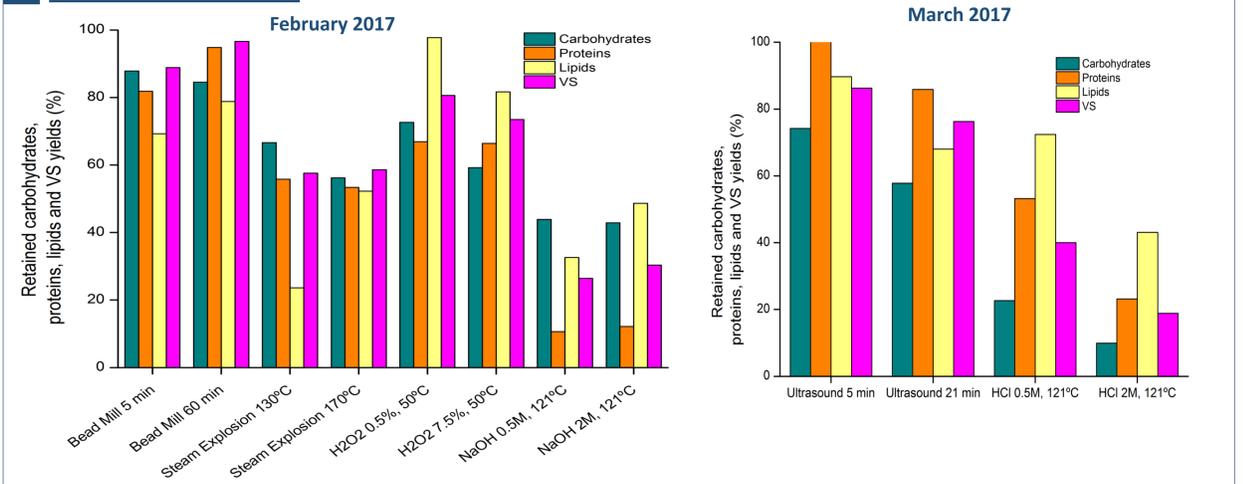
1 BIOREFINERY CONCEPT



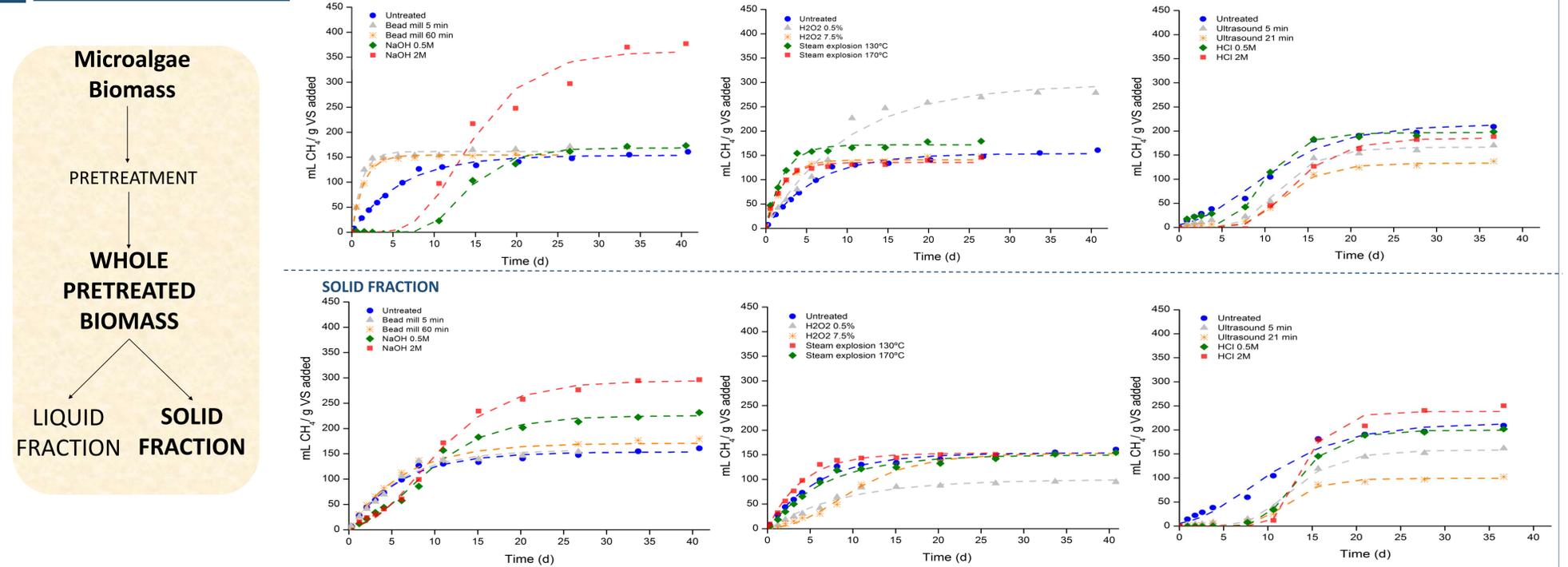
2 MICROALGAE BIOMASS COMPOSITION



3 PRETREATMENTS



4 BIOGAS PRODUCTION



5 CONCLUSION

- Microalgae composition: ↑ carbohydrates, ↓ proteins, ~ lipids.
- Chemical pretreatments → ↑ ↑ sugar release to the liquid fraction.
- Whole fractions → feasible and useful.
- Degradation factor → key elemental
- ↑ ↑ methane production → chemical pretreatments with inhibition.

6 ACKNOWLEDGMENT

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