



Supplementary Materials

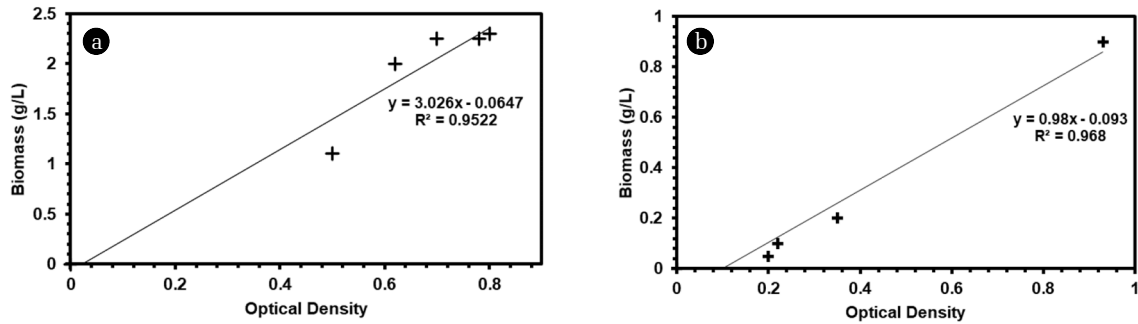


Fig. S1. Standard curved of (a) *Botryococcus braunii* and (b) *Chlorella vulgaris* during cultivations at various time.

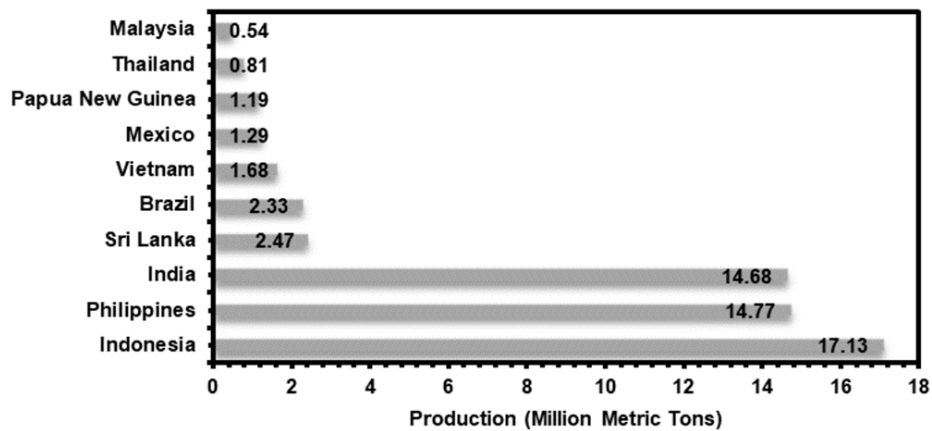


Fig. S2. The world leaders in coconut production in 2020 [2].

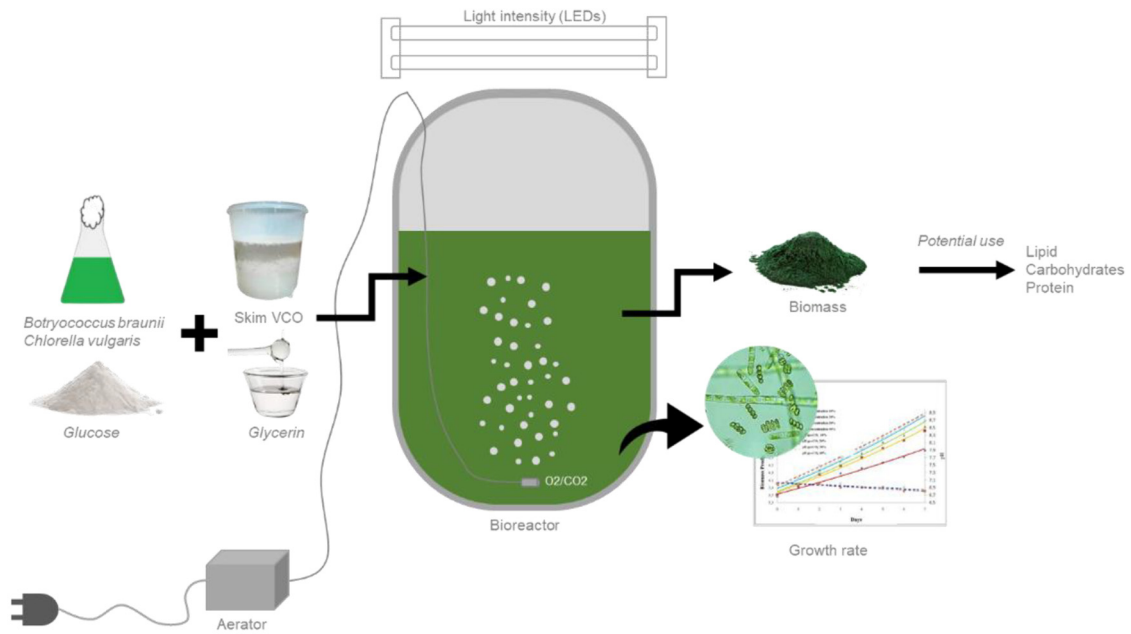


Fig. S3. Experimental setup.

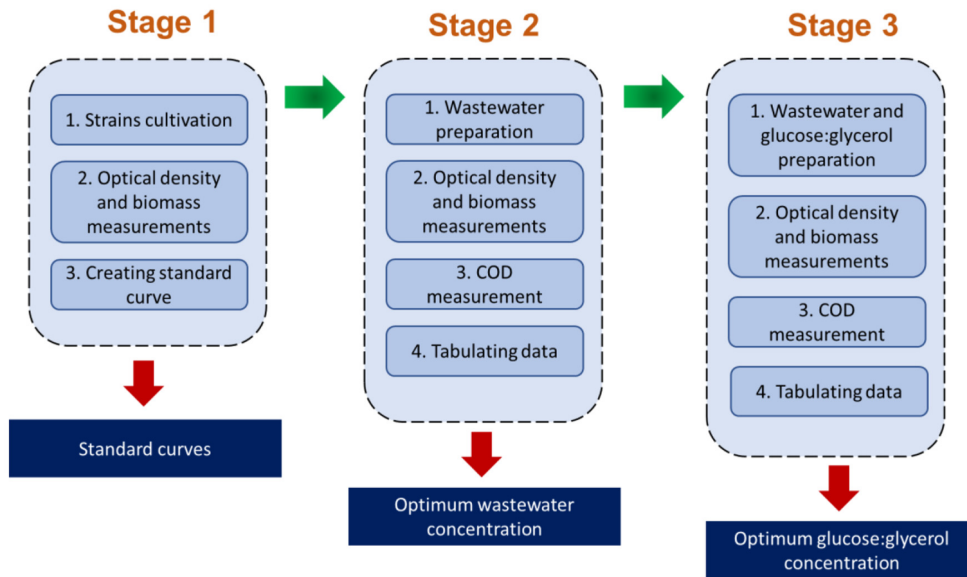


Fig. S4. Research methodology.

Table S1. Pollutants Contained in VCO Mill Effluent [6]

Parameter	Value
pH	4.03
COD (mg/L)	3,540
BOD5 at 200C (mg/L)	3,000
Turbidity (FAU)	400 to 4,000
Oil and grease (%)	4.04
Total Solid (TS) (%)	5.45
Suspended Solid (SS) (mg/L)	500 to 3,500

Table S2. Nutrients Contained in VCO Mill Effluent

Compound	Value (mg/L)
Phosphor	0.19
Ash	0.65
Protein	8.30
Nitrogen	9.90
Carbohydrate	13.97
Lipid	17.17
Water	49.80

Table S3. Growth Rate of Microalgae at Various VCO Mill Effluent Concentrations

Medium Concentration	μ max (day ⁻¹)	
	<i>Botryococcus braunii</i>	<i>Chlorella vulgaris</i>
0%	0.27	0.34
20%	0.19	0.16
40%	0.05	0.04
60%	0.04	0.04
80%	0.02	0.01
100%	0.00	0.00