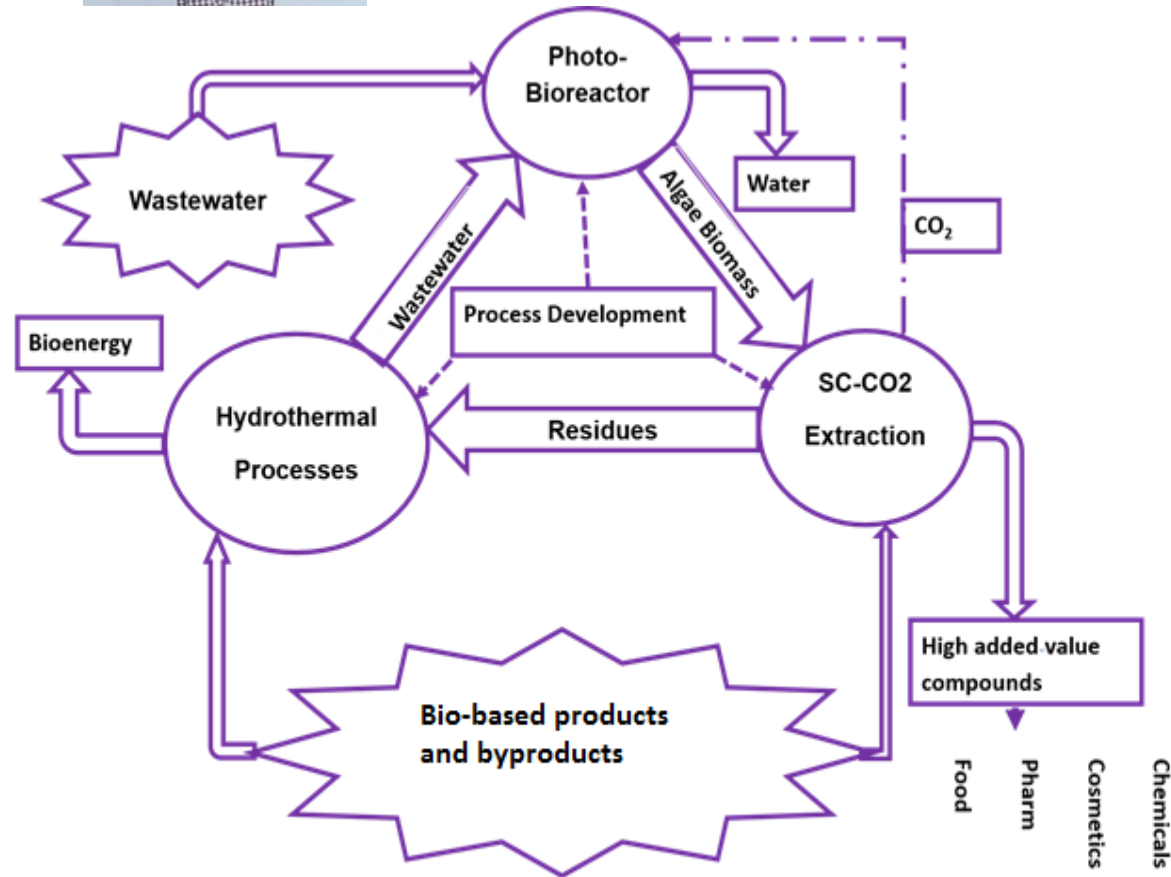




Dr. Kurabachew Duba

Assistant Professor, Bioprocess & Environmental Engineering

Supercritical CO₂ process development, Biomass-to-bioenergy, Wastewater treatment



Supercritical CO₂

- *Extraction, characterization and fractionation*
- *Kinetics modeling*
- *Process design, optimization and scale-up*

Biomass-to-bioenergy

- *Biocrude upgrade*
- *Thermochemical property estimation*
- *Reaction kinetics and mechanism analysis*
- *Process development*

Wastewater treatment

- *Algae biomass growth kinetics*
- *Micronutrients removal*
- *Lipid synthesis*