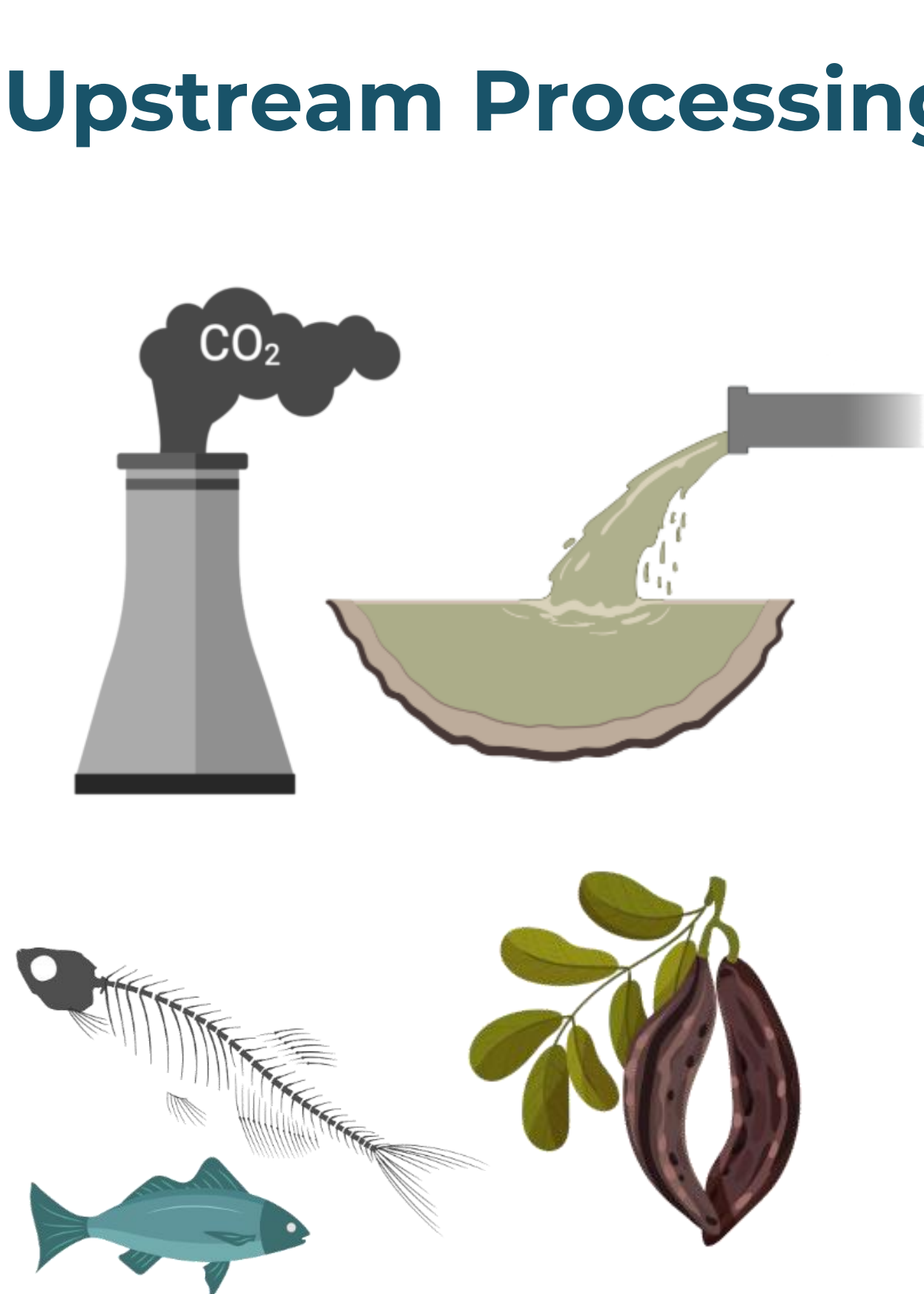


# Environmental Engineering and Biotechnology Laboratory

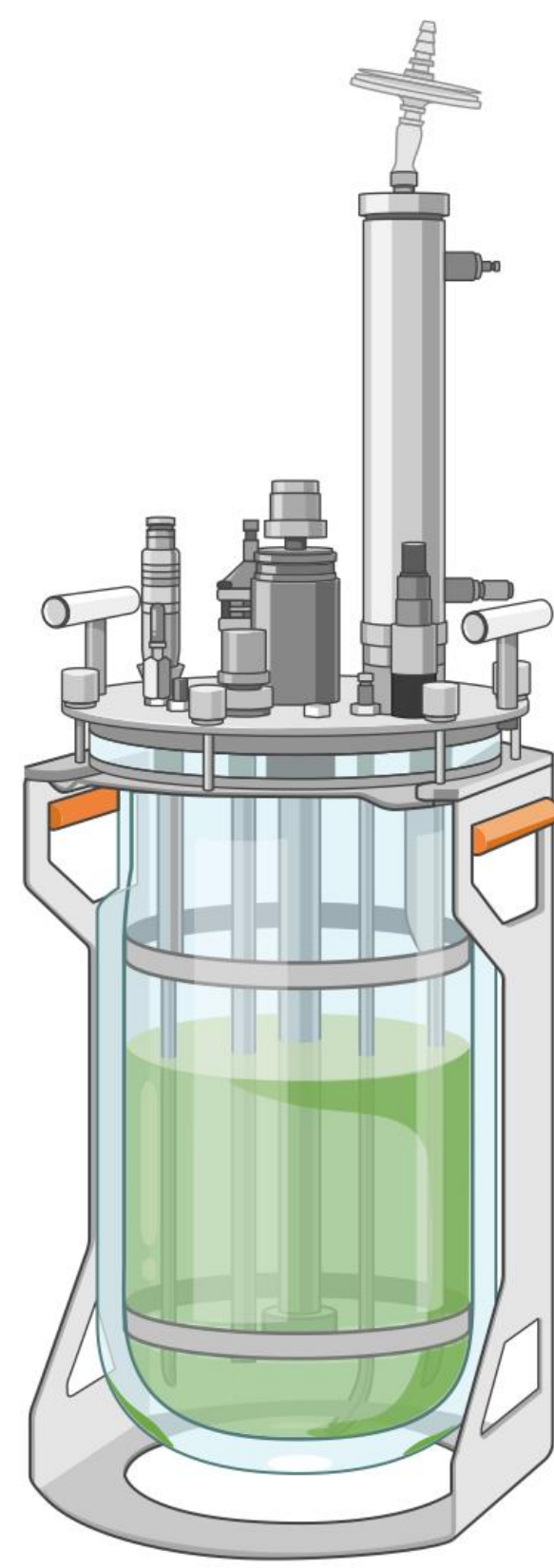
## Main Area of Focus

The Environmental Engineering and Biotechnology Laboratory (LEBA) focuses on the recovery and valorization of waste using advanced biological systems. Its mission is to develop sustainable production alternatives that promote resource efficiency and a circular economy.

### Upstream Processing



Waste / Residues



Production Technologies

### Downstream Processing



Final Products

Using extensive knowledge of production technologies such as anaerobic digestion, bioreactor technology, metabolite extraction, and cell culture, we can produce and extract high-value compounds such as bioethanol, omega-3 fatty acids, pigments, VFAs, feed, nutrients, and other bioactive compounds.

Several highly specific analytical technologies, such as Gas Chromatography, Liquid Chromatography, Elemental Analysis, Mass Spectrometry, and Light Absorption, support these processes.