

Pretreatments Capabilities

Technologies

Organosolv, Ionic Liquids

Autohydrolysis, Steam Explosion

Dilute Acid & Oxidative Reinforced Acidic

Alkali & Oxidative Reinforced Alkali

Fungal – Enzymatic

Analysis: Basic Biomass Constituents

**Chemical Structure of Lignin, Cellulose, Hemicellulose,
Metals/Extractives by NMR, FT-IR, SEM, AFM, DSC, GC/MS,
HPLC, Molecular weights (GPC), Heat of Combustion, ICP
Enzymatic Sugar release (HPLC) and Ethanol Production**