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Paving way for production of Fuel and Chemicals from Agricultural residues

Research from Lawrence Livermore National Laboratory (LLNL) in USA sheds new light on how to access the sugars locked up in plant materials in order to convert by-products into new feedstocks for production of fuels, materials and chemicals. Accurately characterizing a small number of molecules produced in native biomass has remained a challenge for many researchers. The researchers combined advanced manufacturing techniques, imaging, big data analysis and high-density microfluidics. It paves the way for future studies at LLNL for bio-national security applications that involve high-throughput characterization of biomolecules such as tissues, soil samples and biomass in their native state. This research will be helpful in reducing use of fossil fuel and has relevance with Bioeconomy development. (Source: Tina Jeoh et al, *Green Chemistry* (2023)