

Living Biofoundry



An automated, high-throughput platform for gene assembly, amplification, transformation, strain growth, and metabolite analysis enables the production of bio-based monomers and polymers with precise repeat units, domains and chirality directly from microorganisms. By providing an equipment set focused on automation, control, and high-throughput pathway assembly at the gene level and metabolite detection at the cellular level, the Living Bioreactor will enable biosynthetic manufacturing of commodity monomers and polymers.

The capabilities of the Living Biofoundry Facility are supplemented by: (1) a Thermo Fisher TSQ Altis inline triple quadrupole mass spectrometer coupled with an ultra-high-performance liquid chromatograph (UHPLC/MS/MS) for separation and analysis of synthesized bio-derived monomers, (2) Agilent Technologies 7890A gas chromatography system, and (3) BIOFLO CELLIGEN 310 fermenter/bioreactor for scale-up microbial culture.

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