Germany, LCE-08-2016-2017

Our technology uses sunlight, algae, non-arable land and CO2 to economically produce ethanol, and biomass that can be converted into gasoline, diesel, and jet-fuel. Our proprietary technology employs enhanced blue-green algae (cyanobacteria) and photosynthesis to convert CO_2 and seawater into “sugar” (pyruvate) and then into ethanol and biomass.

Our in-house strain collection comprises cyanobacteria, representing different genera from very diverse, often extreme, Habitats

Our Expertise:

Screening / Cultivation / Physiology
-Maintenance & screening of our large strain collection of cyanobacteria
-Photobiology
-Lab- & outdoor cultivation at scales between 0.002 – 1000 L culture volume

Molecular Biology
-State of the art techniques for transformation & metabolic engineering
-Broad genetic tool box for cyanobacteria
-Systems biology approaches

Analytics
-Broad range of analytical techniques
-Development of enzyme assays suitable for high throughput
-In-house technology for online analyses of biofuels and other metabolites

Topics

LCE-08-2016-2017:
Development of next generation biofuel technologies

LCE-19-2016-2017:
Demonstration of the most promising advanced biofuel pathways

LCE-20-2016-2017:
Enabling pre-commercial production of advanced aviation biofuel

Contact

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