Research Tools

METHODS OF DESIGNING PRODUCTION OF MICROBIAL COMMUNITIES, METHODS OF PRODUCING MICROBIAL COMMUNITIES, AND MICROBIAL COMMUNITIES PRODUCED THEREBY

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Inventors: Ophelia Venturelli, Bryce Connors, Brian Pfleger

The Invention

UW-Madison researchers disclose an improved method for generating diverse microbiomes. The method leverages growth media composition and species inoculum ratios to control the makeup of the consortia, resulting in a defined species composition. Using empirical data from monoculture growth on a varying media, the inventors generate an optimized growth media for the microbiome of interest. With the media optimized, the inventors then use kinetic data to determine the optimal ratio of bacteria in the initial inoculum. Together, the optimized growth media and species inoculum ratio results in the desired species composition in the final product microbiome.

Additional Information

For More Information About the Inventors

- Ophelia Venturelli
- Brian Pfleger

Tech Fields

- Research Tools : Biomanufacturing

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854