

Aspergillus Species Fermentation Platforms: Suit The Needs in Scale-up and cGMP Fermentation

New York City, New York Jun 29, 2022 ([IssueWire.com](https://www.issuewire.com)) - Microbiosci, the mature division of Creative Biogene, is fully engaged in developing unique technologies that provide global scientists with high-quality products and satisfactory services to facilitate the investigation of microbial research. With a mature fermentation platform consisting of large fermentation tanks, bioreactors, and large-scale purification systems, Microbiosci is capable to support diverse needs in the microbial field. Recently, Microbiosci announced the release of its [Aspergillus Species fermentation platform](#) that can be applied to support scale-up and cGMP fermentation.

Microbial fermentation is the preferred production method for many therapeutic products. Creative Biogene has many years of experience in the field of microbial fermentation and meets customer needs through a complete service product line from strain development to large-scale production. Creative Biogene's microbial fermentation services are based on bacteria, fungi, and yeast, from strain selection, optimization, and process development to scale-up and cGMP production

Metering and setting up fungal fermentation is a complex process that must be repeated each time a newly engineered strain is used. This process requires several optimization steps, from finding the optimal growth medium and fermentation parameters (temperature, pH, and oxygenation) to selecting the appropriate fermentation type and fungal morphology that favors high yields of specific proteins. Various strategies have been employed to optimize fermentation conditions to increase recombinant protein production in *A. niger*, focusing on the effect of growth medium and culture conditions on protein production. Other bioprocess parameters such as stirring intensity, initial nutrient concentrations, and dissolved oxygen levels were also considered.

Creative Biogene also provides services that include codon optimization, gene synthesis, small-scale expression testing, protein purification, and large-scale manufacturing. Fermentation end products range from proteins, and enzymes to microbial biomass.

As a versatile fermentation strain, *A. oryzae* not only produces a large amount of amylase and protease but also produces useful secondary metabolites. Creative Biogene has many years of experience in the field of microbial fermentation and meets customer needs through a complete service product line from strain development, and process development to large-scale production. Creative Biogene selects microbial strains that express efficiently at high cell densities. Comprehensive microbial fermentation services can be flexibly configured to provide high-quality products.

"With rich experience in biological fermentation, and a variety of *Aspergillus* cultures and expression

vectors, Creative Biogene can provide you with high-quality fermentation services at different scales, especially industrial and cGMP fermentation." said Marcia Brady, the marketing director of Creative Biogene, she also added, "We are capable to develop customized solutions for specific requirements in microbial fermentation related studies."

About Microbiosci

Microbiosci, as the division of Creative Biogene, is always dedicated to satisfying the needs of clients covering more than 50 countries and districts. As a leading custom service provider in delivering medicine microbiology solutions, Microbiosci has become a well-recognized industry leader with years of experience and professional scientists.

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