

Accelerating Microbial Biomanufacturing

About Us

Terra Bioforge is a synthetic biology company transforming the discovery and manufacturing of microbial natural products and proteins. We leverage data science, genomics, metabolomics, and proprietary synthetic biology tools to engineer highly efficient *Streptomyces*, *Bacillus*, and fungal biofactories that bring valuable compounds and proteins to market faster and more cost-effectively than traditional methods.

Core Capabilities

DNATrap® Technology

Captures intact biosynthetic gene clusters up to 150kb from complex genomes, irrespective of GC content or repeats. Over 150 intact BGCs captured for over expression, de-risking natural product discovery/production workflows.

pDualP® & BGCrefactor® Tools

Patented technologies enabling:

- Predictable **activation of biosynthetic pathways** for natural product screening
- **Improved natural product titers** for functional bioactivity screening
- Multiplexed, marker-free refactoring for **optimizing entire biosynthesis pathways**

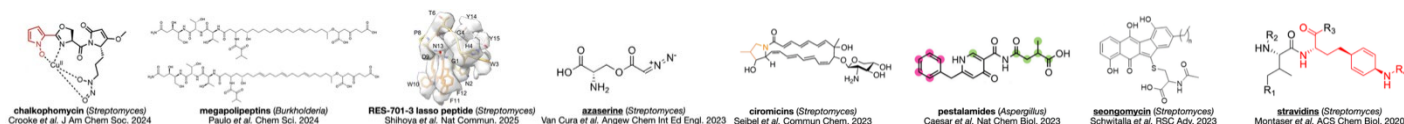
MycoDrive™ Platform

A genome engineering platform that turns filamentous fungi into ultra-efficient production hosts, delivering 5–35x higher product yields and more than 10x faster development while lowering manufacturing costs through optimized strains and rapid scale-up.

Key Benefits

- ✓ **Dramatically Reduced R&D Timelines** — Bring products to market faster
- ✓ **Lower Manufacturing Costs** — Reduce COGS through efficient microbial strain engineering
- ✓ **Higher Production Yields** — Unlock previously viable products through optimized titers
- ✓ **Reduced Commercialization Risk** — Mature, proven platform with 150+ BGCs captured for discovery/production
- ✓ **Scalable Solutions** — Engineer the best host for your specific application

Proven Use Cases in Natural Product Discovery



Natural Products By Design®

Contact: info@terrabiobioforge.com

Location: Middleton, Wisconsin, USA

Website: terrabiobioforge.com

Info Deck: [Terra Bioforge Info Deck](#)

