



brightseed®

# Innovation Partnerships

## Bioactives, the key to unlocking human health.

Brightseed's proprietary AI, Forager®, accelerates bioactive discovery and biological validation from years to months – and is rapidly revealing new connections between nature and humanity. Through Forager and clinical evaluation, Brightseed works with companies across industries to offer insight into the world of bioactives and new ingredients for health.

Bioactives are compounds found in plants, fungi, and microbes that have the potential to reshape the nutraceutical industry and help consumers achieve their health goals, yet only about 1% of these small molecular compounds have been discovered. This new frontier of science presents an extraordinary opportunity to meet underserved consumer health needs and innovate through a de-risked and accelerated path to clinical validation and commercialization.

Forager Has Already Mapped  
**7 Million**  
Plant Compounds

And Identified  
**40,000**  
Predicted Bioactives

Targeting  
**23**  
Health Territories

### Forager's First Discovery: Bioactives in fiber to support gut health

Using Forager® AI, we set out to find new solutions to support gut health and launched our first bioactive ingredient, from discovery to commercialization, in under 5 years.

Forager identified two bioactive compounds, N-trans-caffeoyl tyramine (NCT) and N-trans-feruloyl tyramine (NFT), with potential gut health benefits. We then surveyed hundreds of plant sources and identified hemp hulls - the shells of hemp seeds - as the most abundant source of these bioactive compounds.

#### Introducing Brightseed® Bio Gut Fiber

##### A prebiotic\* hemp dietary fiber with bioactives for gut strength

- The only dietary fiber with two naturally occurring bioactives NCT & NFT. Pre-clinical research demonstrates these bioactives show promise to support gut lining and maintain a healthy gut barrier function.\*\*
- Acts as a prebiotic\*, supporting microbiome growth\*\*
- Ideal for functional food, beverage and supplement applications including nutritional drinks, cereal, bars, granola and more.



brightseed®  
Bio Gut Fiber



Brightseed developed a proprietary process to transform the hemp hulls into an upcycled certified, dietary fiber ingredient with a high concentration of the bioactives, and named it Brightseed® Bio Gut Fiber.

### Some of our partners:



KALLYOPE



BILL & MELINDA GATES foundation



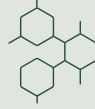


# Innovate *Naturally*

Brightseed enables partners to discover, develop, and commercialize IP-protected bioactives with meaningful differentiation at a fraction of the time and cost compared to traditional methods.

Our innovation partnerships leverage our award-winning AI-powered platform, Forager, and our vast, proprietary database of natural compounds to help our partners identify novel bioactives for a specific health benefit or profile a key plant source for added health value.

## Partnership Programs



### Novel Bioactives

De-risk novel health product innovation



### Bioactive Profiling

Generate more value from hero ingredients



### Microbiome Programs

Discover synbiotics and profile bioactives in fermented foods

## Transformation across industries

PHARMACEUTICALS

FOOD & BEVERAGE

PERSONAL CARE

SPECIALIZED INGREDIENTS

DIETARY SUPPLEMENTS

CONSUMER HEALTH

AGRICULTURE

## NEW!

## Microbiome-Focused Programs

There are multitudes of novel bioactives that are uniquely created in the gut when bioactives in plants interact with gut bacteria in a process called biotransformation.

Brightseed works with companies interested in tapping into the gut microbiome for novel product development and precision gut health benefits in two ways: Synbiotic Discovery and Fermented Food Profiling.

## Brightseed offers category leaders flexible, focused, and financially attractive partnerships.

### Partnership Benefits

#### Differentiation

Effective ingredient(s) from a newly illuminated and vast solution set

#### Speed

Fastest path to novel discovery and scientific validation using Forager<sup>®</sup> AI

#### Market Advantage

Category exclusivity of novel IP-protectable ingredients

### Partnership Structure

#### De-Risked Investment

Program costs co-funded by Brightseed with payments tied to success-based milestone

#### Value Sharing Upon Success

Align Brightseed's incentives with our partners

#### Flexible Programs

Programs designed to complement partners' strengths and capabilities