



Gene Guard Detox

Revolutionizing health and wellness.

Gene Guard provides scientifically validated probiotic products that use beneficial bacteria to bind and remove toxins from the digestive system before they can be absorbed into the body and cause harm.

Our strains specifically target ubiquitous environmental toxins ingested in the modern diet. By preventing the absorption and distribution of these toxins, our probiotics support whole body health and well-being.



Our science: We've isolated food-grade bacteria that remove glyphosate from the body.

Reduced glyphosate >50% in testing

2020 - Stage 1: In vitro testing
Microbial remediation of glyphosate

Objective: To identify GRAS isolates capable of removing glyphosate.

Summary: Screening of numerous GRAS isolates enabled identification of 3 unique strains of food grade bacteria that reduced glyphosate levels by >50%

Reduced toxin absorption demonstrated

2022 - Stage 2: Animal Testing - 2 Different Feeding Studies after a one week intervention

Objective: Assess whether in vitro results translate to a rodent model

Summary:

- 40% increase of glyphosate in stool, indicating reduced absorption in the body
- 46% decrease in serum indicating reduced absorption in the body
- 20% decrease in glyphosate levels in the liver, which would suggest tissue detoxification

... and it removes BPA

Preliminary results indicate that our selected bacteria bind BPA

Heat killed isolates remove >50% of input BPA

What's so bad about glyphosate?

Glyphosate is the active ingredient in the controversial herbicide "RoundUp," plus dozens of other herbicides. It's found in food supplies worldwide and is a major contributor to a range of illnesses in humans and animals due to chronic exposure.

Diseases linked to glyphosate include:

- Obesity
- Heart disease
- Brain disorders
- Infertility
- Cancers
- Fatty liver disease
- IBS

\$10 billion+ lawsuit

Bayer will pay more than \$10 billion to end **tens of thousands of lawsuits** filed over its Roundup weedkiller.

[Read more](#)

Probiotic market overview

A massive and growing industry – increase market share by targeting health-conscious consumers

\$88 billion probiotic market by 2025

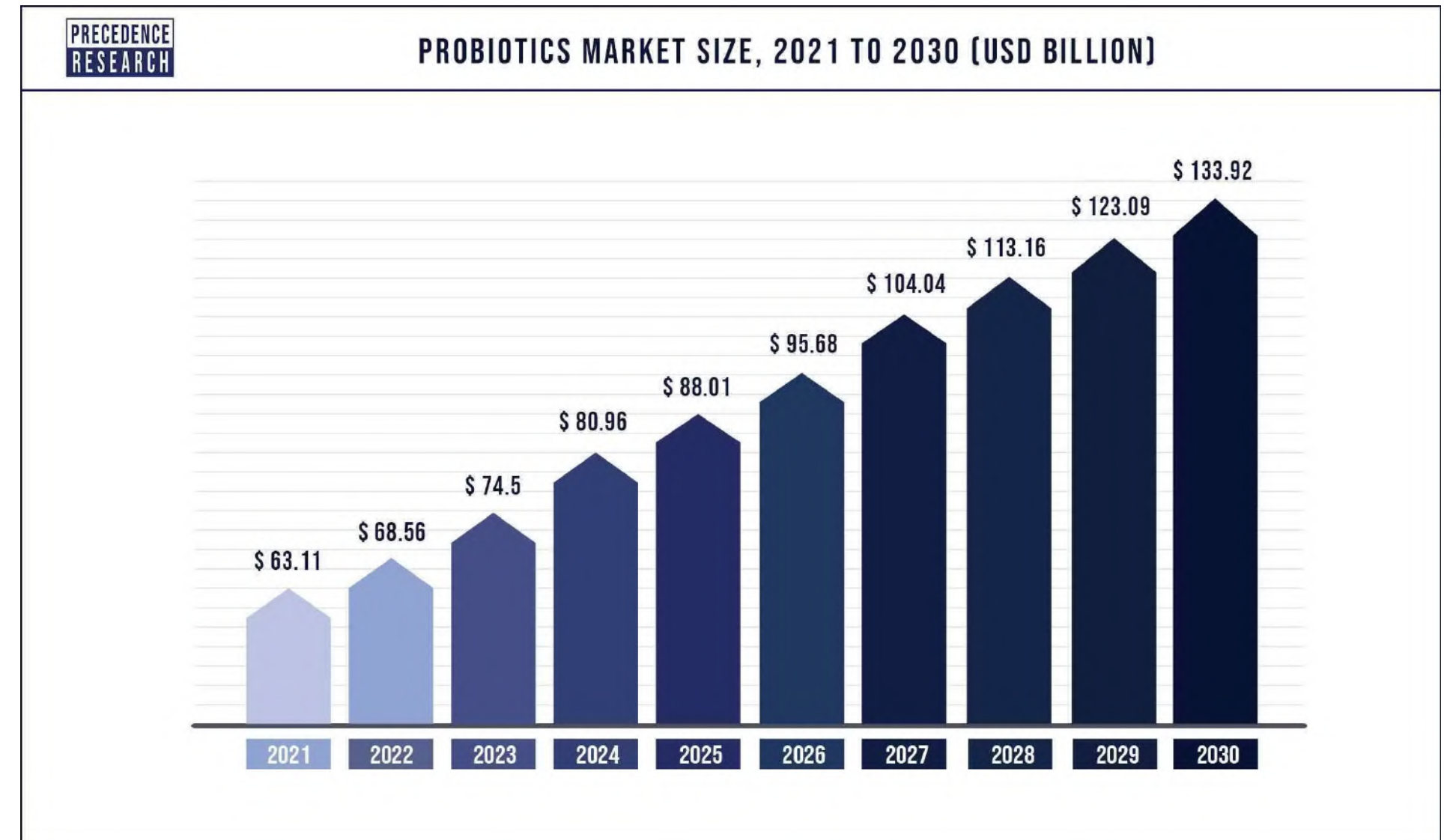
[Precedence Research](#) analysis finds that the probiotics industry is growing at a robust 9% annually, and is expected to exceed \$100bn by 2025.

93% of people believe companies are not doing enough to remove toxic chemical ingredients from products

Findings from a [UCSF study](#).

\$10 billion detox drinks market by 2033

According to research by [FactMR](#)



History

2018

Team

John McColgan founded science team with Dr. Paul J. Mills, adding Dr. Scott Peterson

2020

Incorporation

Incorporated Gene Guard in California

2020

Testing

In-vitro testing to find bacteria strains that reduce glyphosate absorption; positive results: isolated strains that bind glyphosate

2022

Animal Testing

First round of in-vivo testing using laboratory animals (n=12)

2022

Continued testing

Second round of in-vivo testing, confirming reduced absorption into the body

2023

Patent

Provisional patent filed

2023

Enhancement

Currently selecting for sub-strains with enhanced binding

2024

Commercialization

Negotiating with food & beverage industry executives to implement Gene Guard Detox

Future plans

What are our next steps?

✓ **Evaluating prebiotics to enhance levels of our probiotic strains in-vivo**

✓ **Further strain improvement through genetic selection which could strengthen our IP**

✓ **Licensing to food & beverage firms**

Additive usages

- organic yogurt
- organic soft drinks
- organic juices
- organic bread
- cereals
- protein drink mix
- protein bars
- organic kombucha
- cider
- kefir
- coconut milk
- oat milk
- soy milk
- cashew milk
- macadamia milk
- confectionary chocolate
- electrolytes drinks
- kids juice boxes
- water flavoring
- frozen desserts
- pets water additives
- instant coffee
- add to existing multi-strain probiotics
- baby formula
- organic pet food additive or stand-alone
- dog chews
- dog foods
- dog cookies and snacks
- kid's flavored organic gummies
- organic fruit roll-ups
- hot or cold beverage mixes

Our board



John McColgan, CEO

25 years in health & wellness brand building, product development, and sale.



John Murphy

Human Capital and Compensation Committee Chairman at O'Reilly Automotive, with past directorships and leadership of other public companies.

Thank you

If you're open to the possibility of investing, or using Gene Guard Detox in your product, [schedule a one-on-one](#) with our team. We're an early-stage firm looking for first-movers.



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