



Mark A. Brudnak, Ph.D.

SCIENTIST | INVENTOR | BIOTECHNOLOGY EXECUTIVE | ENTREPRENEUR | AUTHOR | AI INNOVATOR

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CORE EXPERTISE

Biotechnology
Molecular Biology
Microbiology
Probiotics
Food Science
Functional Foods & Nutraceuticals
Product Development
R&D; Leadership
Scientific Literature Analysis
Artificial Intelligence Applications
Patent & IP Strategy
Technology Commercialization

EDUCATION

Ph.D., Molecular Biology & Biotechnology

B.S., Biology

SELECTED PATENT AREAS

Named inventor/co-inventor on intellectual property involving:

- Microorganism enumeration technologies
- Neurological and gastrointestinal treatment technologies
- Probiotic delivery and microbiological technologies

SELECTED PUBLICATIONS

PCR in Neuroscience - contributing chapter

The Probiotic Solution

Probiotics and You: A Complete Guide

Probiotics For Dummies - Technical Editor

EXECUTIVE PROFILE

Scientist, inventor, entrepreneur, and author recognized for translating complex biomedical science into commercially successful products, patented technologies, and AI-driven scientific tools.

More than three decades of experience spanning molecular biology, biotechnology, microbiology, probiotics, functional ingredients, nutraceuticals, product development, scientific communication, intellectual property, and commercialization.

FEATURED INNOVATION

Probiotic Search™

Creator and scientific architect of Probiotic Search™, a commercial scientific intelligence application designed to transform biomedical literature into practical, organism-specific probiotic evidence. Conceived the product and designed its underlying scientific methodology and evidence-ranking framework, while directing development from initial concept through deployment on consumer mobile platforms.

The platform reflects a career-long focus on translating complex scientific information into useful decision tools and extends that work into AI-assisted biomedical literature analysis.

PROFESSIONAL EXPERIENCE

President - MABEN ENTERPRISES LLC

Lead scientific consulting, innovation, product-development, and commercialization initiatives across biotechnology, microbiology, food science, probiotics, nutraceuticals, and functional ingredients. Work encompasses research strategy, formulation, scientific due diligence, intellectual property development, technical writing, and translation of scientific concepts into commercially viable products.

SELECTED CAREER HIGHLIGHTS

- More than three decades of scientific innovation and commercialization.
- Named inventor/co-inventor on multiple biotechnology and microbiology patents.
- Author and contributor to scientific books and peer-reviewed literature.
- Contributed a technical chapter to *PCR in Neuroscience*.
- Developed commercially successful biotechnology, probiotic, nutritional, and functional-ingredient products.
- Created Probiotic Search™, integrating biomedical literature analysis with scientific decision intelligence.
- Extensive experience bridging research, product development, manufacturing, intellectual property, and business strategy.