







Transformative Opportunities in Immune Health & Nutrition

June 2021





SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

Some of the statements contained in this presentation are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These statements involve known and unknown risks, uncertainties and other factors which may cause our or our industry's actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Forward-looking statements include, but are not limited to statements regarding:

- The Company's ability to raise the funds we need to continue our operations;
- The Company's goal to begin to generate revenues and become profitable;
- Regulation of our products;
- Market acceptance of our products and derivatives thereof;
- The results of current and future testing of our products;
- The anticipated performance and benefits of our product;
- The Company's ability to expand its intellectual property;
- The Company's ability to enter into strategic partnerships;
- The Company's ability to generate licensing fees; and
- The Company's financial condition or results of operations

In some cases, you can identify forward-looking statements by terms such as "may", "will", "should", "could", "would", "expects", "plans", "anticipates", "believes", "estimates", "projects", "predicts", "predicts", "potential" and similar expressions intended to identify forward looking statements. These statements are only predictions and involve known and unknown risks, uncertainties, and other factors that may cause our actual results, levels of activity, performance, or achievements to be materially different from any future results, levels of activity, performance, or achievements expressed or implied by such forward-looking statements. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Also, these forward-looking statements represent our estimates and assumptions only as of the date of this report. Except as otherwise required by law, we expressly disclaim any obligation or undertaking to release publicly any updates or revisions to any forward-looking statement contained in this presentation to reflect any change in our expectations or any change in events, conditions or circumstances on which any of our forward-looking statements are based. We qualify all of our forward-looking statements by these cautionary statements.

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ZIVO BIOSCIENCE, INC. - NASDAQ: ZIVO; ZIVOW

Addressing billion-dollar global animal health issues. Global food supply. Human immune health. Not just science, but IMPACT. The promise of global solutions for global problems.

Biotech/Pharma

Immune modulators to displace antibiotics in global food supply, improve animal health

Patents filed. Tested. Ready to license

Human Immune application in development

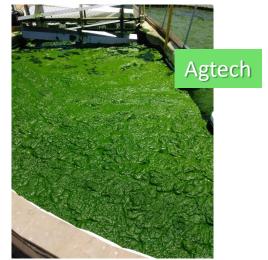
Agtech/Nutrition

Algae biomass as the newest superfood, skin health product, functional ingredient

Patents filed. Tested. Market-ready

Outsourcing production globally









Potential revenue from multiple income streams. Out-license IP and sell bioproducts. Billion-dollar Biotech & Agtech market verticals span the globe. Small company. Big science.



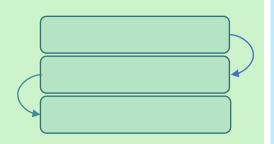
EXPERIENCED MANAGEMENT

85+ years of combined experience in Life Sciences, Therapeutics and Ag Sciences



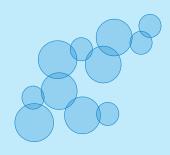
INTELLECTUAL PROPERTY

9 patents, 34 patents pending plus trademarks & trade secrets in Agtech/Biotech IP portfolio



ADVANCED AGTECH PLATFORM

Innovative products, sustainable cultivation processes, global footprint



EXPANDING BIOTECH PIPELINE

Novel immune and antiinflammatory candidates in advanced development

Biotech is capable of delivering significant valuation multiples. Agtech is capable of driving near-term revenue.



What do all these global health issues have in common?



Drug-resistant pathogens

Autoimmune Disorders

Sepsis/Toxic Shock

Poultry Coccidiosis

Antibiotic residues in dairy products e. Coli contamination Antibiotic-laced meat

Bovine Mastitis

Type 1 Diabetes Arthritis

Multiple Sclerosis Necrotic enteritis Irritable Bowel Syndrome (IBS)

Lupus & ALS Salmonella contamination

Cytokine Storm
Botulism Graves' Disease

Porcine Reproductive Syndrome





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Type 1 Diabetes Arthritis **Bovine Mastitis**

Necrotic enteritis Multiple Sclerosis Irritable Bowel Syndrome (IBS)

Lupus & ALS Salmonella contamination Cytokine Storm
Botulism Graves' Disease

Porcine Reproductive Syndrome



They begin and end with the Immune System



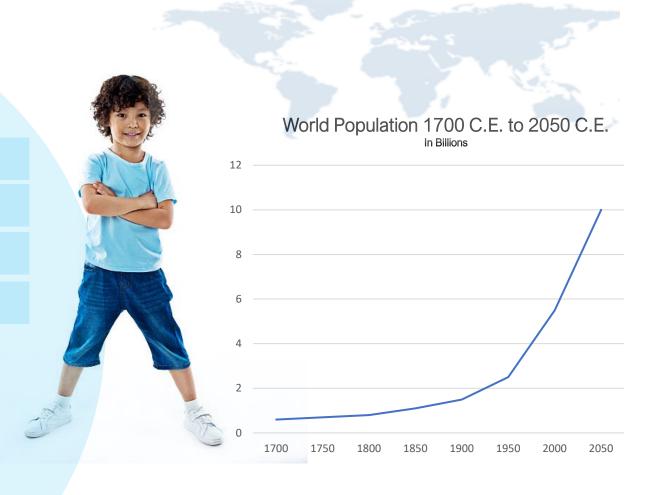
Billions spent on therapeutics, medicines, additives, ingredients



Human Market Annualized

Antibiotics	\$40.0B	(2020)
Eubiotics	\$37.9B	(2019)
Autoimmune	\$110.0B	(2017)
Antidiabetic	\$48.8B	(2018)

Immune-related and infectious diseases represent a vast range of health issues affecting millions of humans and animals. New applications in pharma, food and nutraceuticals are continually introduced into this growing market



See Addendum for Markets sourcing footnotes





Billions spent on therapeutics, medicines, additives, ingredients



Animal Health Market

Vaccines	\$9.2B	(2020)
Phytogenics	\$753.0M	(2020)
Eubiotics	\$3.9B	(2019)

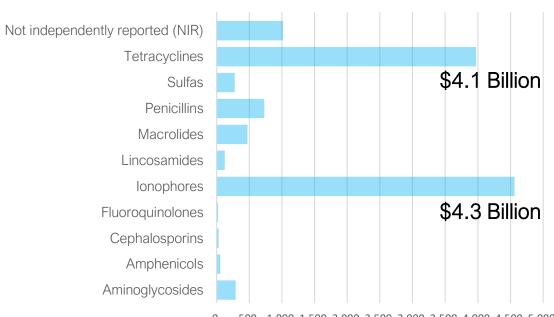
Companion Animal Market

Drugs, vaccines, additives \$11.8B (2020)
Supplements \$637.6M (2019)

See Addendum for Markets sourcing footnotes



Antimicrobial Drugs for Livestock 2018 US - Only



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Poultry Market Annualized

Vaccines	\$2.0B	(2018)
Phytogenics	\$323.0M*	(2020)
Eubiotics	\$1.3B	(2019)

^{*} Assumes the poultry segment of the overall phytogenics market is approximately 43%

Our global food supply is reliant on antimicrobials, antibiotics and feed chemicals to increase production of animal food products, creating the potential for drugresistant bugs and the presence of unmetabolized drugs or chemicals in the food at our dinner table

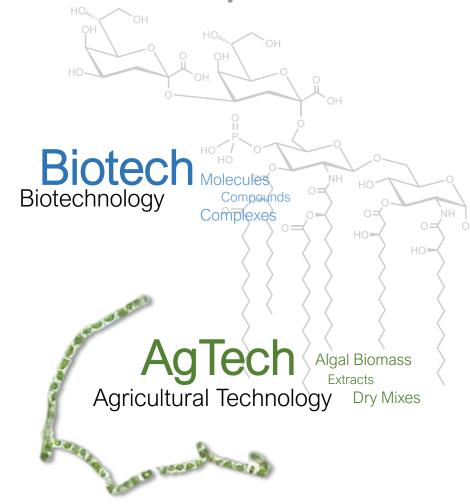


See Addendum for Markets sourcing footnotes



A two-tiered platform for human and animal immune health





Immune health touches all aspects of life

Pharma - Biotech

- Patent-pending immune modulator candidate may create a new class of therapeutics or immune products
- Potential impact in multibillion-dollar global animal products and dairy products market sectors

Nutrition - Agtech

- Patented, proprietary algal bioproducts aimed at rapidlygrowing global demand for plant-based immune & gut health
- Sustainable, non-GMO functional food, feed and beverage ingredients represent expansive, adaptable product platform



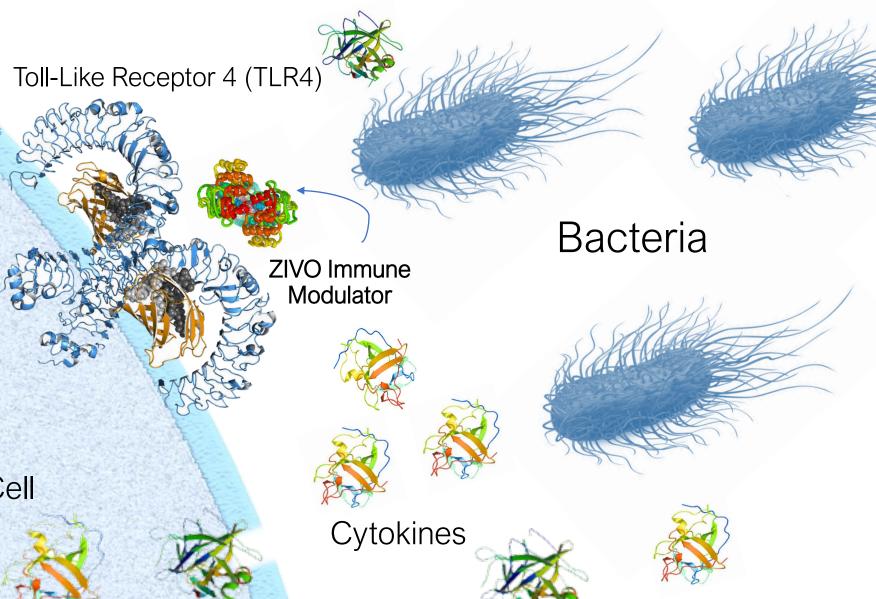
ZIVO Biotech In Vitro Studies



Immune Cell Membrane

ZIVO is developing product candidates designed to help regulate the healthy response of immune cell receptors to invading pathogens, trauma or metabolic distress

Interior of Immune Cell





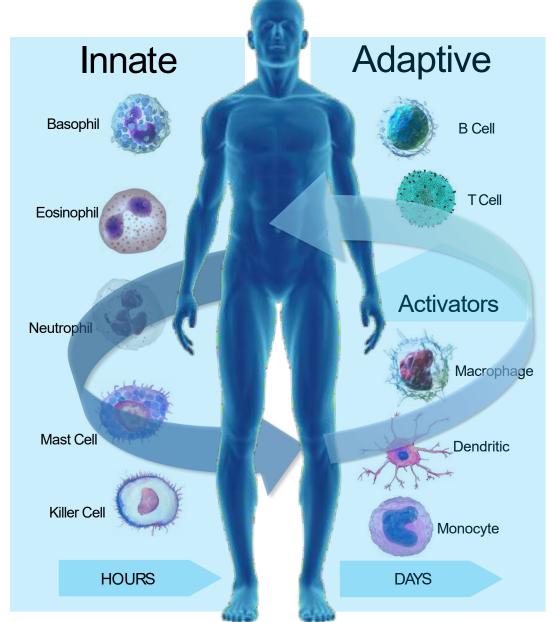




Immune & Metabolic Health

ZIVO-sponsored *in vitro* and *in vivo* studies and analyses point toward

- A promising new superfood
- Novel topical skin health candidate
- A functional food ingredient
- Supports healthy immune response
- Supports healthy microbiome
- GRAS self-affirmed for immediate sale in the US









Q4 2019 - Q1 2021

Immune Modulating Molecules

- TLR-4 immune modulator candidate Q4 2019
- Ten (10) patents filed since Q4 2019
- Manufacturing Proof of Concept confirmed Q4 2020

Poultry Digestive Health

- Seventeen (17) major in vivo studies evaluating efficacy and safety, most recently second half 2020
- Histopathology exams of 6,560 intestinal samples
- Licensing deals in discussion for next-gen products that address coccidiosis and feed conversion

Bovine Mastitis

- Two (2) multianalyte in vivo studies of mastitisinducing pathogens, most recently staph aureus
- Zoetis option/collaboration extended to Q3 2021



Product Development Facilities

 Lab opened in Ft. Myers, FL for cultivation optimization and product development, designed specifically for ZIVO algae and cultures

Production & Cultivation

- Engineering, computer fluid dynamics modeling completed Jan 2021
- License agreement for pilot algae production in Ica, Peru Q2 2020
- Principal engineering and facilities planning completed for Mexico production site Q4 2020

Product Development & Compliance

- Topical skin product testing started
- Pre-clinical efficacy claims studies planned for ingestible and topical products





ZIVO has also filed national-phase applications in Canada, Mexico, Brazil, EU, Taiwan, China, India, Japan and/or international CTPs for the following:

US Patents Issued/Allowed

- U.S. Patent No. 7,807,622 issued October 5, 2010, "Composition and Use of Phyto-Percolate for Treatment of Disease" Proprietary ZIVO complex algal culture
- U. S. Patent No. 8,586,053 issued November 19, 2013, "Composition and Use of Phyto-percolate for Treatment of Disease." Proprietary ZIVO algal culture, with enhancements in application
- U.S. Patent No. 8,791,060 issued July 29, 2014, "Composition and Use of Phyto-percolate for Treatment of disease." Same title as earlier patent, with enhancements in application
- U.S. Patent No. 9,486,005 issued November 8, 2016, "Agents and Mechanisms for Treating Hypercholesterolemia." Describes potential pharmaceutical application, specifically CETP inhibition
- U.S. Patent No. 10,166,270, issued January 1, 2019 "Composition and Method for Affecting Cytokines and NF-KB." Describes potential pharmaceutical application for isolates and derivatives of ZIVO algal culture
- U.S. Patent No. 10,232,028, issued March 19, 2019, "Compounds and Methods for Affecting Cytokines." Describes a ZIVO phyto-percolate isolate for affecting cytokines in animals
- U.S Patent No. 10,765,732, issued September 8, 2020, "Compounds and Methods for Affecting Cytokines." Same title as earlier patent and describes a ZIVO phyto-percolate isolate for wider applications
- U.S. Patent No. 10,842,179, issued November 24, 2020, "Agents and Mechanisms for Treating Hypercholesterolemia." Describes potential pharmaceutical application for a fermented, proprietary ZIVO culture
- U.S. Patent No. TBD, allowed March 16, 2021, "Methods of Modulating Immune and Inflammatory Responses Via Administration of an Algal Biomass." Describes the potential nutritional applications of ZIVO algal biomass and extracts to address immune and inflammatory response by enhancing gut health

Trademarks & Trade Secrets

U.S. Trademarks "ZIVO" 88/288,317; "ZIVO Bioscience" 88/288,453; "Immunoalexin" 88/870,861; "Kalgae" 87/961,009 China Trademarks "ZIVO Bioscience" – China trademark 2019

ZIVO proprietary algal strain has been verified as unique by a third-party and deposited under the World Intellectual Property Organization (WIPO) rules via a certified International Depositary Authority (IDA) under the Budapest Treaty



Business Models & Market Verticals



Biotech ZIVO intends to license its proprietary molecules or bioproducts and derive near-term revenues from option and licensing foce. to be followed: from option and licensing fees, to be followed by long-term royalty streams

#1 - Poultry Digestive Health

IP Licensing/Partnering Models

- Discovery Stage Licensing, OR
- Joint Development Agreement (JDA) Expected Revenue Stream
- Option & License payments, then rovalties over 17+ years. OR
- JDA revenue share over 17+ years

#2 - Porcine Immune

IP Licensing/Partnering Models

- Discovery Stage Licensing, OR
- Joint Development Agreement Expected Revenue Stream

Option & License payments, then royalties 17+ years, OR

■ JDA revenue share over 17+ years

#3 - Bovine Mastitis

Pharma Discovery Stage Licensing

 Product candidate licensed to pharmaceutical company or drug development partner

Expected Revenue Stream

 Option & License payments, then royalties over 17+ years

#4 - Canine Joint Health

Pharma Discovery Stage Licensing

 Product candidate licensed to pharmaceutical company or drug development partner

Expected Revenue Stream

 Option & License payments, then royalties over 17+ years

#5 - Immune Modulation*

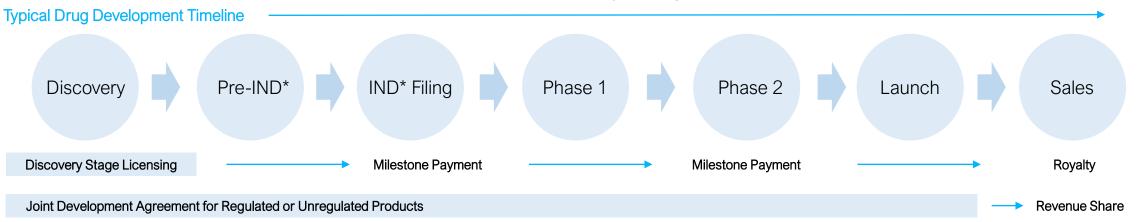
IP Licensing/Partnering Models

- Discovery Stage Licensing, OR
- Joint Development Agreement (JDA)

Expected Revenue Stream

- Option & License payments, then rovalties over 17+ years. OR
- JDA revenue share over 17+ years

Represents a potential opportunity for significant value inflection



*Investigational New Drug

^{*}Phase 3 required for human applications



Business Models & Market Verticals





AgTech ZIVO plans a global algae production network and derive near-term revenues from distribution fees and licensing fees, followed by long-term distribution and joint-venture revenues

Skin Health/Anti-Aging Products

Joint Venture Model

• 50/50 gross margin split with JV partners for exclusive verticals

Fees, Advances and Revenues

- Licensed regional distribution fees
- Revenues from ingredient and formulated product sales

Aquaculture

Licensed Distribution Model

- Distributor model for US/EU Fees. Advances and Revenues
- No fees, advances anticipated
- Revenues from ingredient and formulated product sales

Joint/Exertion Recovery

Licensed Distribution Model

- Distributor model for US/EU Fees. Advances and Revenues
- Licensed regional distribution fees
- Revenues from ingredient and formulated product sales

Organic Poultry Feed Ing.

Joint Marketing Model

• 50/50 gross margin split with exclusive marketing partner

Fees. Advances and Revenues

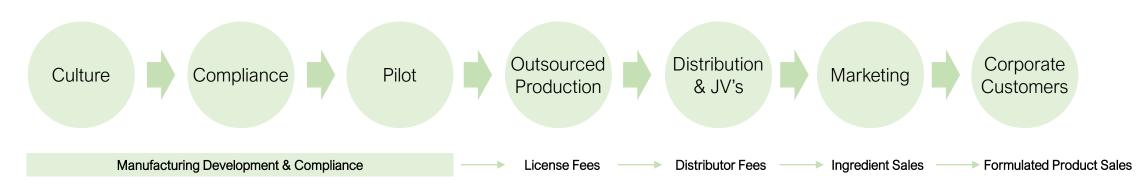
- No fees, advances anticipated
- Revenues from ingredient sales

Food/Beverage Ingredient

Licensed Distribution Model

- Distributor model for US/EU Fees. Advances and Revenues
- Licensed regional distribution fees
- Revenues from ingredient and pre-blended ingredient sales

Revenues anticipated to commence shortly after funding









Andrew A. Dahl - President and CEO

Over 30 years experience in business case development, marketing planning and business development. Mr. Dahl brings Fortune 500 rigor and diligence to early-stage life science companies, setting priorities, shaping business models and facilitating resources to drive toward the Company's overall business objectives.



Harlan L. Miller III, PhD – VP Technology and Global Supply

Dr. Miller is a recognized expert in algal production systems, previously as Sr. Technology Director - Algenol Biotech, LLC. He manages international farm conversions SuperFarm engineering and global tech support, and also directs cultivation science and product development at Ft. Myers research facility.



Keith R. Marchiando – CFO

25 years of functional experience and technical knowledge in corporate finance, planning, and accounting for manufacturing and technology firms. Mr. Marchiando holds broad responsibilities for all finance functions, HR, legal and IT matters. Mr. Marchiando is also corporate secretary and reporting/compliance officer.



Amy E Steffek, PhD - Director R&D

Over 20 years in life science startups ranging across clinical/analytic research, study coordination and regulatory compliance. Dr. Steffek manages multiple research studies, analyses and reporting of research findings pertaining to the Company's proprietary, naturally derived compounds and bioactive molecules



William P. Pfund. MS - VP R&D

Wide-ranging career in Big Pharma, life science startups and contract research orgs. Responsible for all R&D strategies aimed at developing and validating novel therapeutics and product candidates from ZIVO's proprietary bioproducts, leveraging specific expertise in analytical, *in vitro*, and *in vivo* sciences.



Casey W. Fowler, MS - VP Operations

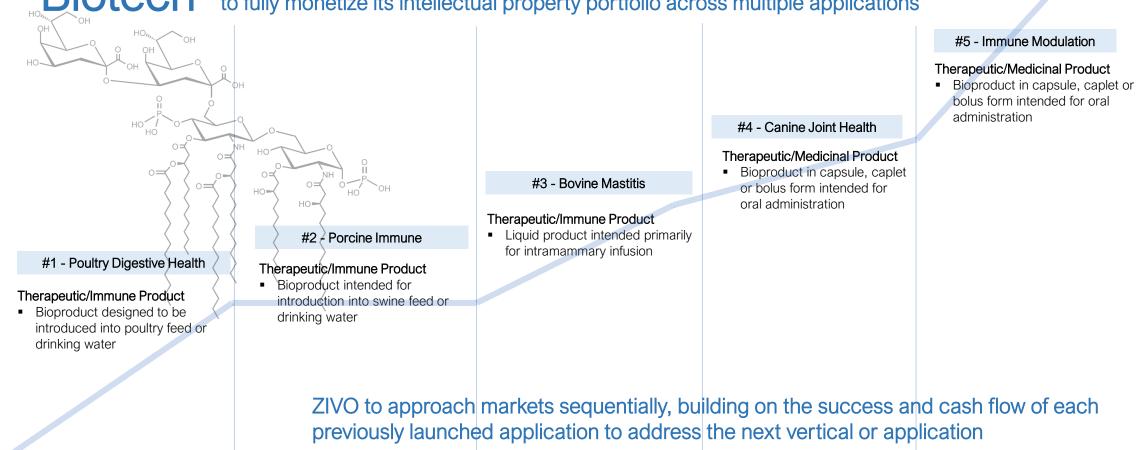
With a decade of managing IP assets, Mr. Fowler manages all IP strategy and assets, as well as operational functions for design and implementation of business strategies, plans and procedures. Additionally, Mr. Fowler leads several specific strategic imperatives at the direction of the executive team.





Biotech

ZIVO intends to license its proprietary molecules or bioproducts and look for opportunities to fully monetize its intellectual property portfolio across multiple applications







AgTech ZIVO plans a global algae production network and derive revenues from selling biomass and joint ventures that market formulated products featuring ZIVO natural biomass products

#1 Skin Health/Anti-Aging

Ingredient Sales & Formulations

 Nutricosmetics, cosmeceuticals, nutraceuticals, topical skin product intended use

#3 Joint/Exertion Recovery

#2 Aquaculture

- Feed Ingredient Functional ingredient for farmed shrimp and fish fry
- Dried algal powder or frozen paste form

Formulated Product

- ZIVO algae mixed with other ingredients for oral consumption
- Capsule, bolus, caplet or powder form

#5 Organic Poultry Feed

Probiotic Ingredient Comp

 Dried algal biomass mixed into dry poultry feed

ZIVO plans to generate near-term revenue from sales of outsourced algal biomass through licensed contract growers in LATAM, Mexico and US

#4 Food/Beverage Ingredient

 Dried algal biomass for use in various food & beverage

Licensed Ingredient

applications

ZIVO Bioscience, Inc. | Ticker: ZIVO

20



Where ZIVO is Headed - Goals for 2021 and Beyond





Poultry Digestive Health

- Prospective licensing or joint development deal
- Continue refinement of poultry product candidates
- Productize, commercialize successful market entry

Immune Modulating Product

- Commercial scale ramp-up of bioactive molecules
- Begin testing in swine and canine models

Intellectual Property Portfolio

- Targeting 50+ patents pending across the globe
- Zoetis option/collaboration extended to Q3 2021

Patents filed. Tested. Ready to license. An opportunity for major value inflection.

Agricultural Technology Dry Mixes

Strategic Partnerships & Regional Distributors

- Establish regional distributorships in US, EU, ME, SEA,
- Form JVs to create new marketing channels, products

Production & Global Supply Chain

- Recruit agribusinesses globally as licensed growers
- Establish global supply chain with QC compliance
- Expand ZIVO algae production in LATAM

Product Development & Compliance

- Planned launch of functional food ingredient in US, EU
- Topical skin health ingredient and formulated product launch in US, UK pending regulatory approvals

Patents filed. Tested. Market-ready.

An opportunity for immediate revenue.



Thank You!

Sourcing Footnote Addendum

Page in Deck	Item	Source / Notes
9	Human - Antibiotics - \$40B	"The global antibiotics market size was valued at USD 40.7 billion in 2020 and is expected to expand at a compound annual growth rate (CAGR) of 4.5% from 2021 to 2028." https://www.grandviewresearch.com/industry-analysis/antibiotic-market
9	Human - Eubiotics - \$37.9B	"The market size stood at USD 37.93 billion in 2019." https://www.globenewswire.com/news-release/2021/02/12/2174760/0/en/Digestive-Health-Market-to-Reach-USD-71-95-billion-and-Exhibit-a-CAGR-of-7-9-by-2027-Rising-Awareness-about-Gut-Health-to-Intensify-Market-states-Fortune-Business-Insights.html
9	Human - Autoimmune - \$110.0B	"Global Autoimmune Disease Therapeutics Market accounted for \$109.83 billion in 2017 and is estimated to garner \$153.32 billion by 2025, registering a CAGR of 4.2% from 2018 to 2025." Allied Market Research, Report 2019: Global Autoimmune Disease Therapeutics Market to Garner \$153.32 Billion by 2025 at 4.2% CAGR, Says Allied Market Research.
9	Human - Antidiabetic - \$48.7	"The global diabetes drugs market derives growth from advancements in drug delivery systems. According to a report published by Fortune Business Insights, titled "Diabetes Drugs: Global Market Analysis, Insights and Forecast, 2019-2026," the market was valued at US\$ 48,753.1 Mn in 2018." https://www.globenewswire.com/news-release/2020/08/19/2080514/0/en/Diabetes-Drugs-Market-to-Expand-at-6-1-CAGR-to-Reach-US-78-261-7-Mn-by-2026-Global-Market-Size-Share-Analysis-Forecast-2019-2026.html
10	Animal - Vaccines - \$9.	"The global animal vaccines market size was valued at USD 9.2 billion in 2020." https://www.grandviewresearch.com/industry-analysis/veterinary-animal-vaccines-market
10	Animal - Phytogenics - \$753M	"The global phytogenic feed additives market size is estimated to account for USD 753 million in 2020." https://www.marketsandmarkets.com/Market-Reports/feed-phytogenic-market-162036047.html
10	Animal - Eubiotics - \$3.9B	"Global Eubiotics Market size exceeded USD 3.9 Billion, globally in 2019 and is estimated to grow at over 8.5% CAGR between 2020 and 2026." https://www.gminsights.com/industry-analysis/eubiotics-market
10	Companion Animal – Drugs, vaccines and additives - \$11.8B	"Companion Animal Drugs Market size was valued at around USD 11.83 billion in 2020." "Companion animal drugs include several drugs, vaccines and medicated feed additives" https://www.gminsights.com/industry-analysis/companion-animal-drugs-market?utm_source=globenewswire.com&utm_medium=referral&utm_campaign=Paid_globenewswire
10	Companion Animal – Supplements - \$637.6M	"According to the research study, the global Pet Supplements Market was estimated at USD 637.6 million in 2019 and is expected to reach USD 1023.8 million by 2026." https://www.globenewswire.com/news-release/2020/11/19/2130018/0/en/Global-Pet-Supplements-Market-Share-Will-Grow-to-USD-1023-8-Million-by-2026-Facts-Factors.html
11	Poultry - Vaccines - \$2.0B	"The global poultry vaccines market size was estimated at USD 2.0 billion in 2018 and is expected to exhibit a CAGR of 6.2% during the forecast period." https://www.grandviewresearch.com/industry-analysis/poultry-vaccines-market
11	Poultry - Phytogenics - \$323.0M	"The global phytogenic feed additives market size was USD 754 Million in 2020 and is expected to register a CAGR of 7.7% during the forecast period." https://www.reportsanddata.com/report-detail/phytogenic-feed-additives-market .

Sourcing Footnote Addendum

