



MustGrow is an agriculture biotechnology company focused on the development and commercialization of natural biological technologies from mustard seed for use: as an alternative to banned/restricted synthetic chemicals and fertilizers; in organic acres; and to improve soil health



MustGrow is providing a natural, organic technology platform for use in many markets: **Soil Amendment & Biofertilizers, Soil Biocontrol** and **Postharvest Food Preservation**

- 100% owned patented technology that is mustard-derived formulated plant extract (84 issued & pending patents)
- Harnessed what nature provides to the mustard plant → compounds that have novel modes of action to protect itself as a nematicide, fungicide, insecticide and herbicide, and carbohydrates and proteins for soil health
- Technology has potential for multiple product lines in multiple markets:
 - Preplant Soil Amendment & Biofertility – estimating US\$15 billion market by 2030
 - Preplant Soil Biocontrol – estimating US\$17 billion market by 2030
 - Postharvest Biocontrol & Food Preservation – estimating US\$1.5 billion in potatoes & F&V
- Currently on the cusp of commercialization with potential of no CAPEX for initial production

What is going to replace banned synthetic chemicals? How are we going to grow a sustainable food supply?

Key Challenges

- Food security issues: rapid population growth and finite amount of arable land
- Consumer demand for safe, healthy, sustainable food supply
- Increasing regulatory pressure on synthetic chemicals and fertilizers
- Producers' need for effective alternatives to synthetic chemicals
- Global soil health degradation

MustGrow's Technological Solutions

- **Effective:** biological soil health, fertility, disease and pest control comparable to synthetics
- **Flexible:** can be used in variety of existing application systems and for numerous crops
- **Safe:** non-hazardous, minimal worker safety, bystander or environmental concerns
- **Organic:** eligible for use in organic production
- **Positive Soil Health:** natural organic breakdown
- **Efficient:** compared to cover cropping
- **Economical:** potential to be priced competitively with conventional alternatives

Global Partnerships Validate MustGrow's Potential



MustGrow is focused on disrupting the US\$250 billion global pesticide and fertilizer markets which doesn't include organic acres, or post harvest

Commercial and R&D Pipeline

	APPLICATIONS	TARGET	ESTIMATED MARKET SIZE/ LOSS	PROOF OF CONCEPT Laboratory	EARLY R & D Greenhouse	ADVANCED R & D Field Trails	REGISTRATION Pre-Launch	Partner
Soil Applied	Soil Amendment & Biofertility							
	TerraSante™	Preplant Soil Conditioner for Healthier Soil	US\$3.5 Billion Estimated Global Market Size	→	→	→	TerraSante™ Registration work ongoing in the US and Canada	
	Biofertilizers	Preplant soil Biofertilizers for yield enhancement	US\$2.6 Billion Estimated Global Loss			Formulation Work		
	Soil Biocontrol							Sumitomo Corporation BAYER
	TerraMG™	Fusarium, Botrytis, Verticillium, Rhizoctonia, Pythium, Phytophthora, Sclerotinia, Aphanomyces, Clubroot Disease, Nematodes, etc	US\$1.3Billion Estimated Global Market Size in Fruit & Vegetables	→	→	→	TerraMG™ Registration work ongoing in multiple countries	NexusBioAg UnivarSolutions Sumitomo Corporation BAYER
	Bioherbicide	Natural Herbicide	US\$35Billion Estimated Global Market Size	→	Formulation work on new extract			Sumitomo Corporation BAYER
Non Soil Applied	Postharvest Biocontrol & Food Preservation							
	Storage: Potato, Fruit & Vegetable	Sprouting, diseases and pests	US\$250 Million Estimated Global Market	→	→			JANSSEN PMP janssen Sumitomo Corporation BAYER
	Storage: Bulk Grain*	Mycotoxins and pests	US\$15 Billion Estimated Global Loss	→	Seeking Partners			
	Storage: Shipping Containers*	Diseases and pests	US\$2 Billion Estimated Global Market Size	→	Seeking Partners			

Returns organic plant material to the soil • **Dissipates in the soil** quickly
Avoids toxicity to beneficial micro-organisms • **Promotes a healthy microbiome** for the soil

Capital Structure



Basic Shares Outstanding	49,677,755
Options/RSU's/DSU's	4,387,218
Warrants	1,490,304
Fully-Diluted Shares Outstanding	55,555,277
Market Cap (CAD)	\$119,226,612
Insider & Advisor Ownership (~20%)	10,013,422
Average Volume (3 month)	17,785
Previous Capital Spent (CAD)	\$23,000,000
Cash Position (CAD)	\$5,600,000
Debt (CAD)	\$800,000