

## MustGrow Biologics Advances its Mustard Plant-Based Technology Pipeline

SASKATOON, Saskatchewan, Canada, Dec. 9, 2020 – **MustGrow Biologics Corp. (CSE: MGRO) (OTC: MGROF) (FRA: 0C0)** (the "Company", "MustGrow") is pleased to provide an overview of its natural plant-based mustard-derived biopesticide technology product pipeline. MustGrow has harnessed the mustard seed's natural defense mechanism to develop and commercialize biopesticide technologies to control diseases, pests and weeds.

**REMINDER:** MustGrow is hosting a live investor webcast **TODAY at 11:00am ET** to discuss upcoming catalysts.

- **Register/View:** <https://event.webinarjam.com/channel/MUSTGROW>
- Please sign-in 5 minutes prior to commencement.
- Participants will be muted and anonymous.
- Please email questions to [info@mustgrow.ca](mailto:info@mustgrow.ca) to be addressed following the presentation.

With patented plant-based organic biopesticide technologies, MustGrow is aiming to disrupt global agriculture markets that have traditionally been dominated by potentially dangerous chemistry-based products. MustGrow's existing patent portfolio protects both *method-of-use* and *composition-of-matter* claims for MustGrow's signature mustard-derived approach to controlling unwanted diseases, pests and weeds.

### MustGrow's Crop Protection and Food Preservation Programs:

PRODUCT	TARGET	MARKET	STAGE
<b>Pre-Plant Soil Biopesticide</b>	<b>Soil-borne diseases &amp; pests</b>		
Fruits & Veg, Turf & Ornamentals, Potatoes, Tobacco	Fusarium, Botrytis, Verticillium, Rhizoctonia, Pythium, Phytophthora, Sclerotinia, Nematodes, etc.	US\$1.2 Billion est global market in Fruit & Veg	U.S. EPA registration is in process for multiple crops; Pre-Launch
Canola	Clubroot Disease ( <i>Plasmodiophora brassicae</i> )	C\$500 Million est economic loss in Canada	Advanced Development / Field Trials
Bananas	Fusarium wilt TR4	US\$18 Billion est global loss	Early Development / Greenhouse
Pulse Crops	Aphanomyces	C\$100 Million est economic loss in Canada	Proof-of-Concept / Laboratory
<b>Non-Selective Bioherbicide</b>	<b>Noxious or resistant weeds</b>	US\$13 Billion est global market	Early Development / Greenhouse
<b>Stored Potato &amp; Vegetable Sprout Inhibitor*</b>	<b>Sprouting, diseases &amp; pests</b>	US\$100 Million est global market	Early Development / Laboratory
<b>Storage Biopesticide for Bulk Grain*</b>	<b>Mycotoxin and insects</b>	US\$15 Billion est global loss	Proof-of-Concept / Laboratory
<b>Storage Biopesticide for Shipping Containers*</b>	<b>Fungus and invasive pests &amp; diseases</b>	US\$2 Billion est global market	Proof-of-Concept / Laboratory
<b>Biopesticide for Food-Borne Pathogens*</b>	<b>E.coli, Salmonella, Listeria, Staphylococcus</b>	US\$15 Billion est global market	Proof-of-Concept / Laboratory

Table Source: Globenewire, Cirrus Partners, MustGrow estimates.

\*Literature shows AITC has application in these areas. MustGrow is looking forward to testing its natural AITC technologies.

**Pre-Plant Soil Treatment for Fruits & Vegetables / Seeking U.S. EPA Registration:** MustGrow has the advantage of already having an existing U.S. EPA registration for its biopesticide in "granule format" for use as a pre-plant soil treatment of diseases and pests in crops such as fruits & vegetables, turf & ornamentals, potatoes and tobacco. The Company is now using this existing registration data to obtain a new registration in "liquid format". EPA registration approval is targeted for 2021.

**Bananas / Fusarium wilt TR4:** MustGrow recently [announced 100% control](#) in the laboratory of *Fusarium wilt TR4 (Panama Disease)* utilizing its mustard-derived biopesticide. Fusarium wilt TR4 is a devastating disease pathogen ravaging the [\\$25 billion global banana industry](#). Currently, there are no effective treatments for infected banana plantations, which can cause [100% yield loss](#). Additional program advancements, both in the laboratory and field, are expected Q1-2021.

**Non-Selective Bioherbicide:** MustGrow has [filed key patents](#) and announced [proof-of-concept](#) data related to a biological non-selective bioherbicide (*weed killer*), a timely development, as market-leading synthetic herbicides face high-profile legal and regulatory challenges. A series of MustGrow's application rate tests achieved herbicidal control after only 72 hours – killing the plants from the root up. Additional program advancements are expected Q2-2021.

**Canola / Clubroot Disease:** MustGrow has confirmed in a greenhouse setting over [98% control of Clubroot](#) spores in 24-hours on both soil and plants. The Company anticipates completing further greenhouse testing this winter and commencing field trials in spring-2021. Clubroot is a rapidly-spreading disease pathogen destroying canola, one of Canada's more profitable crops. Once a field is infested, there are no economical control measures currently available, with some field infections leading to 100% crop loss.

**Stored Potato & Vegetable Sprout Inhibitor:** MustGrow recently announced the [exclusive patent licensing](#) from the University of Idaho pertaining to mustard-based treatment of stored produce and other foods, particularly *sprout suppression of potatoes*. The Company anticipates testing its AITC technology on potato sprouting and diseases in the laboratory this winter-2021. With positive results, further testing will take place in greenhouse and then field. The current annual product sales in the European sprout suppression market is estimated at US\$64 million and over US\$100 million globally<sup>(1)</sup>. The leading agrochemical product for sprout suppression, *chlorpropham* ("CIPC"), was [banned by the European Union](#) on Oct. 8, 2020. MustGrow has identified logical partners in relevant global regions based on food product characteristics and economics.

<sup>(1)</sup> Cirrus Partners research.

## The World is Ready for Biopesticides

Widely-used synthetic chemicals continue to be banned or deregistered globally. The U.S. EPA [promotes and encourages](#) the use of safer pesticides, requiring much less data to register a biopesticide. The European Commission is seeking to [halve the use](#) of chemical pesticides by 2030. Leading agriculture companies have recently established venture capital programs to fund, partner or acquire early-stage technologies focused on biopesticide and bioherbicide crop protection. Research firm *Markets and Markets* sees the global biopesticide market size [doubling to US\\$8.5 billion](#) by 2025.

## About MustGrow

MustGrow is a publicly traded (**CSE: MGRO**) (**OTC: MGROF**) (**FRA: 0C0**) agriculture biotech company focused on providing natural science-based biological solutions for high value crops, including fruits & vegetables and other industries. MustGrow has designed and owns a U.S. EPA-approved natural solution

that uses the mustard seed's natural defence mechanism to protect plants from diseases and pests. Over 110 independent tests have been completed, validating MustGrow's safe and effective signature products. The product, in granule format, is EPA-approved across all key U.S. states and by Health Canada's PMRA (Pest Management Regulatory Agency) as a biopesticide for high value crops such as in fruit & vegetables. MustGrow has now concentrated a liquid format, TerraMG, and with regulatory approval, could be applied through standard drip or spray equipment, improving functionality and performance features. In addition, this new mustard-derived technology could have other applications in several different industries from pre-plant soil treatment to post harvest disease and pest control.

The Company has approximately 37 million basic common shares issued and outstanding. For further details please visit [www.mustgrow.ca](http://www.mustgrow.ca).

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## **Forward-Looking Statements**

Certain statements included in this press release constitute "forward-looking statements" which involve known and unknown risks, uncertainties and other factors that may affect the results, performance or achievements of MustGrow.

Generally, forward-looking information can be identified by the use of forward-looking terminology such as "plans", "expects", "is expected", "budget", "estimates", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or statements that certain actions, events or results "may", "could", "would", "might", "occur" or "be achieved".

Forward-looking statements are subject to a number of risks and uncertainties that may cause the actual results of MustGrow to differ materially from those discussed in such forward-looking statements, and even if such actual results are realized or substantially realized, there can be no assurance that they will have the expected consequences to, or effects on, MustGrow.

These risks are described in more detail in MustGrow's Prospectus and other continuous disclosure documents filed by MustGrow with the applicable securities regulatory authorities and available at [www.sedar.com](http://www.sedar.com). Readers are referred to such documents for more detailed information about MustGrow, which is subject to the qualifications, assumptions and notes set forth therein.

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