

## MustGrow to Commence Work on Disease Threatening Global Banana Supply: *Fusarium wilt Tropical Race 4*

- National state of emergency declared in Colombia.
- New soil-borne *Fusarium* pathogen is threatening the global supply of bananas.
- Effective eradication is currently not possible, with *Fusarium* wilt TR4 remaining viable for decades in the soil.
- MustGrow independent studies have confirmed 100% control of a similar soil-borne resilient *Fusarium* pathogen.

Saskatoon, SK, November 12, 2019 – **MustGrow Biologics Corp. (CSE: MGRO) (OTC: MGROF)** (the "Company", "MustGrow"), an agricultural biotech company developing and commercializing a portfolio of natural, science-based bio-pesticides, is pleased to announce its intent to address a new *Fusarium* pathogen known as *Fusarium wilt Tropical Race 4* ("**Fusarium wilt TR4**"), a soil-borne disease pathogen plaguing the global banana supply. MustGrow's previous independent efficacy studies involving the treatment of *Fusarium oxysporum* ("**Fusarium**"), a soil-borne pathogen potentially similar to *Fusarium* wilt TR4, have demonstrated 100% control of the fungus.

The spread of *Fusarium* wilt TR4 to banana plantations in South America has compelled Colombia to reportedly declare a [national state of emergency](#), enacting special measures to stop the disease from spreading, including the [preventive eradication of 168 hectares of infected crop](#). A flurry of media reports has followed, revealing a [research race to save bananas from extinction](#).

### MustGrow's EPA-Approved Product

MustGrow's signature mustard-derived bio-pesticide product in 'granule format' is EPA-approved for use in fruits, vegetables, nuts, turf and ornamentals. MustGrow [has now concentrated](#) the granule format into a liquid format ("**Liquid Formulation**") – a key milestone for growers seeking a 'natural biological' alternative to 'chemistry-based' products, some of which are dangerous to human health. The advanced Liquid Formulation may be applied through standard drip or spray equipment, improving effectiveness, economics, functionality and performance features.

While testing of MustGrow's patented mustard-derived bio-pesticide has confirmed 100% control of soil-borne diseases & pathogens including *Fusarium*, *Botrytis*, *Rhizoctonia*, *Pythium*, *Verticillium*, *Phytophthora*, *Sclerotinia*, and *Nematodes*, further testing will determine if the same product will control emerging banana threat *Fusarium* wilt TR4.

MustGrow's signature mustard-derived products have consistently demonstrated efficacious benefits similar to chemistry-based "chemical" products without the harmful safety profile often associated with these chemical products – in some cases 100% control of Root Knot Nematodes compared to chemistry-based products such as *Methyl Bromide*.

### **Fusarium wilt TR4<sup>(1)</sup>**

According to the Food and Agriculture Organization of the United Nations ("**FAO**") *Fusarium* wilt disease has been a major constraint to banana production for more than a century. Its new race, *Fusarium* wilt TR4, has been causing serious banana losses in Southeast Asia, resulting in abandonment of thousands of hectares. *Fusarium* wilt TR4 is among the most destructive diseases of bananas, affecting particularly Cavendish bananas, supplying around half of global banana production. Effective eradication is currently

not possible, with Fusarium wilt TR4 remaining viable for decades in the soil. Once established in a field, it can cause 100 percent yield loss.

(1) Source: <http://www.fao.org>

### **About MustGrow**

MustGrow is a publicly traded (**CSE: MGRO**) (**OTC: MGROF**) agricultural biotech company focused on providing natural science-based biological solutions for high value crops, including fruit & vegetable and cannabis cultivation. MustGrow has designed and owns a United States EPA-approved organic solution that uses the mustard seed's natural defence mechanism to protect plants from pests and diseases. 110 independent tests have been completed, validating MustGrow's safe and effective signature products. This product, in granule format, is EPA-approved across all key U.S. states as a fertilizer and pesticide (currently limited to fertilizer in California) and is designated by Health Canada's PMRA (Pest Management Regulatory Agency) as a fruit & vegetable bio-pesticide and fertilizer. MustGrow has now concentrated a liquid format to be applied through standard drip or spray equipment, improving functionality and performance features.

In cannabis, MustGrow is currently developing effective, safe and biological solutions that adhere to Health Canada's strict regulations, including (1) its mustard-derived bio-pesticide to treat soil-borne pests and diseases; and (2) an in-licensed bio-fungicide for powdery mildew.

The Company has approximately 25.0 million basic common shares issued and outstanding and approximately 36.9 million on a fully diluted basis. For further details please visit [www.mustgrow.ca](http://www.mustgrow.ca).

### **ON BEHALF OF THE BOARD**

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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.

This release does not constitute an offer for sale of, nor a solicitation for offers to buy, any securities in the United States.

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