

FertiBug

Patented./TM

FOOD SECURITY- SUSTAINABLE AGRICULTURE-
BIOECONOMY

The basic idea-

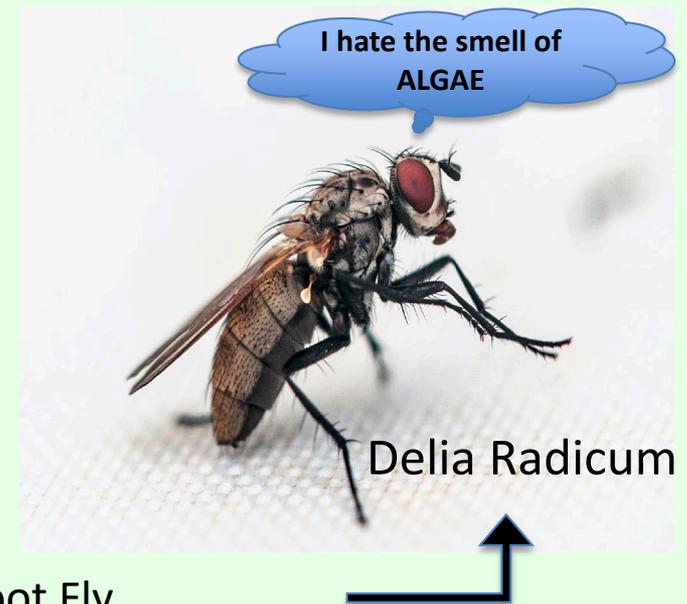
is to use algae as a repellent to the Cabbage Root Fly

As a carrier of the *dead* ALGAE we use pelletized fiber of fermented manure. Thus we can fertilize and protect the crop of Brassicas from the attacks of the Cabbage Root Fly in one operation. Tested at NTNU.Td. in 2004, with promising results.

Advanced development in FP7 at Fraunhofer IGB, Univ. of West Hungary and SMEs in Europe in 2008/11.

Why FertiBug ?

A brand new approach, initiating a new era, as to plant protection, that does not harm people or environment including insects, in any way. Safe to handle. Can be used by all- professional growers, home gardeners and urban growers, without protective equipment commonly used spraying pesticides. In field tests in Hungary/Spain we got an increase of yield up to 80 % depending on type of Brassicas. Thus, FertiBug meets the UN's SDG goals, as to food safety and sufficient food for everyone, when it comes to Brassicas, all done in a sustainable way.



A Preliminary Production System



The Problem



for all the brassica producers in the world is:

DeliaRadicum



Roots are eaten by larvae of DeliaRadicum and the plants often die

Our solution is FertiBug

Manure from livestock

Waste Approv. for Agri. use



Biogas plant



Fiber from biogas production

ALGAE Patented insect repellent

Mix and pelletizing

Pellets production at the Biogasplants all over Europe



Insect repellent and fertilizer

>99% manure from EU
< 1% algae-from No/EU

Impact

EU farmers

Increased Yield >50% in fieldtests ie 1395 mill/y to Brassica growers

EU society

Reduced health costs due to reduction of 19148 tons insecticides used: 9 billions €/y hence 324 mill €/y for Brassicas alone
+ Reduced enviromental costs

Local raw material and production plus local use; giving very small environmental footprints

Tasks to be done

- 1 Get an approval before marketing in EU
- 2 Establish a pilot-scale ,expandable, production unit of ALGAE at Bioskiva AS in Norway
- 3 Establish production at key biogas plant preferably in district with a large production of Brassicas giving short distance between production and market and very small footprints environmentally seen. Do field test as a start where they intend to use Fertibug.

Contact details

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I am so happy !!

The farmer intend just to scare me away from his cabbage –Yes, I am on way to my second choice **without ALGAE !!**



Nominated to «European Innovation Prize ». at the end of 2018
by TP Organics , Brussels