



Seeking: Pesticides with new mode of action

Description

OVERVIEW

This organization is looking for herbicides, fungicides, and insecticides with new mode of action. These materials may be natural, biological or synthetic but must have low toxicity and low environmental impact. Your proof-of-principle, effectiveness, and toxicity data will play a large part in the acceptability of your proposed solution.

BACKGROUND

Over the past century, virtually every herbicide, fungicide, and insecticide currently available has engendered resistance in the pest species treated. This organization is looking for new active ingredients, supported by sufficient data, and which exhibit new modes of action to overcome such resistance. Solutions to all pest varieties are of interest.

Possible approaches may include a mode of action that delivers a pesticide precisely to the most effective spot on a plant to eliminate the pest plant, to halt the fungus affecting a crop plant, or to destroy a pest insect. It may involve a mode of action discovered in antibiotic research, a material made by plants to protect themselves from insects or disease or a material developed for a totally different purpose that shows unexpected activity.

Other possible approaches include using proteins or peptides to activate a plant's own defensive mechanisms, or to disrupt some internal mechanism of a weed, fungus, or insect.

Pesticides that have multiple sites of action are of special interest, as are biological add-on ingredients to synthetics that make the pesticide more available to its target and 'bio-rational' actives that work well in an open ecosystem.

At all events, your proposed solution should offer a new mode of action.

At this time, the organization is NOT LOOKING FOR new delivery platforms, for analogues of current compounds, or for classes of molecules that already exhibit resistance in the field.

CONSTRAINTS

Your solution provides a new mode of action not currently used by other pesticides.

You are able to supply proof-of-principle, effectiveness, toxicity, or other data to support your claims.

POSSIBLE SOLUTION AREAS

DNA, cytobiology, and mitochondrial research.

Antibiotic discovery

Veterinary

Pharmacology

Botany

Microbiology

Biochemistry

Desired Timeframe

Within 12 months

Field Of Use and Intended Application

Pesticide, Plant health, Public health

Desired Outcome

This organization hopes to find a wide range of new pesticide active ingredients, with new modes of action, that affect plant, fungus, and insect pest species.

Previously Attempted Solutions

Organic synthesis

Region

North America

Years in Business

More Than 10 Years

Annual Revenue

More Than \$500 Million

Company Type

Intermediary/Broker

Licensing Terms

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