

TITLE NEW TREATMENT FOR PESTICIDE COMPOUNDS DEGRADATION

DESCRIPTION OF THE TECHNOLOGY

This technology refers to the use of a peptide, isolated from the albumin birds, and other polypeptides, produced by biotechnological procedures, which are capable of degrading the organophosphorus compounds and carbamates, which constitute the basic structure of pesticides currently used.

Pesticides are synthetic products that caused serious problems of environmental pollution and insect resistance, in addition to harmful effects on other organisms, including humans, so these compounds are considered at the same time a problem of public and environmental health

MARKET APPLICATION SECTORS

Environmental and Public Health Sector

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

The World Health Organization (WHO) has reported that human poisoning by organophosphorus compounds, affects a high proportion of people in agriculture, considering also a problem of public health and environmental health. Organophosphorus compounds are used for the manufacture of lubricants, nerve agents employed in warfare and especially insecticides and pesticides to control insects (vectors) in public health and agricultural activities. The removal of these environmental compounds is difficult with currently available treatments, so this new technology may provide important advantages from the technical point of view, as well as incorporating an added value to companies that choose to commercially exploit it.

CURRENT STATE OF DEVELOPMENT

The technology has been developed only at laboratory level.

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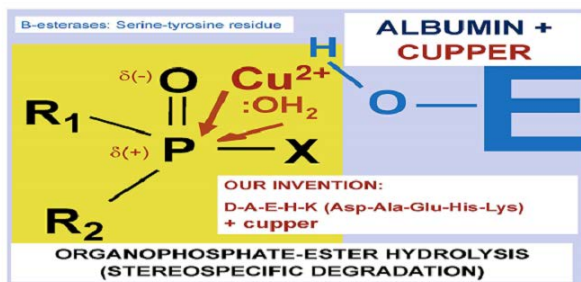
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COLABORATION SOUGHT

Collaboration with companies interested to carry out testing technology concept to facilitate commercialization and industrial implementation.

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