Phytoremediation is a strategy that aims at using certain plants capacities to absorb, to stock and/or to damage chemicals and organics contaminants from soils and water polluted. The goal of the innovation is to increase plants performances through a simple natural technique allowing to circle the use of a genetical modified organism strategy. Studies have been carried out on Arabidopsis thaliana, a model for genetics and molecular biology on plants. The invention is based on the addition of a natural molecule (sugar as glucose or saccharose) into the midium which enables to increase the plant tolerance (with a factor 500) and its ability to absorb towards some contaminants. This disclosure is based on a metabolic and genetic mecanism of activation through signalisation ways preserved by the majority of superior plants. Consequently, the process can be extended to other plants and other contaminants.

**APPLICATIONS**

> Sites decontamination with organic pollution like insecticide et pesticide (atrazine, diuron, glyphosate, carbaryl)
> Possible extension to metallic pollution (copper, zinc, cadmium, sodium)

**TECHNOLOGY BENEFITS**

> Use of an active biodegradable agent
> Low-cost of raw material used
> Extensive principle to several different contaminants

**IP STATUS**

> Patent n° FR2859600 and n° US2007093388
> Patent n° FR0310774 and USA, Europe, Canada extentions

**PARTNERSHIPS**

> Company specialized in ground decontamination with plants
> Type of transfer: exclusive or non exclusive licence ; research collaboration

**RESEARCHERS & LABS**

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