



CONTEXT

In the development of new biostimulants, the availability of tests allowing the study of their performance, mode of action and potential toxicity *in planta* is still limited, which constitutes a major obstacle to their adoption by the agricultural input market.

DESCRIPTION

Recently, researchers of the Agroecology Research Unit at Dijon (France) have developed an innovative device that enables screening of biostimulants. This technology aims to accelerate the identification of biostimulants active in grapevine.

The device was validated under controlled conditions and using commercial biostimulants. Thus, it has been shown that it is possible to characterize the biostimulant effect on vine growth and vegetative development (root and aerial phenotyping) in an effective and non-destructive way. At the end of the monitoring period, additional analyses can be carried out to better understand the action of the biostimulants. The technology is perfectly suited for screening different families of biostimulants.



COMPETITIVE ADVANTAGES

- Fast screening of candidate biostimulants
- Study of the biostimulant effect on plant roots and aerial parts
- Non-destructive monitoring of the biostimulant effect over time
- Adapted to different biostimulant families



Markets & applications

Agriculture - soil & plant input sector

- ❖ Screening of biostimulant activity of candidate compounds in vine
- ❖ Investigation of the biostimulant effect on root and aerial growth and development of plants under controlled conditions, and on their physiology



Development stage

Technology validated on the grapevine at laboratory scale using commercial biostimulants



Research team

Agroecology UMR of Dijon - Team Plant-Microorganism Interactions
Vine Immunity Research group



Target partnership

Companies and public laboratories developing biostimulants and studying their mode of action

CONTACT-US

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