Implementation

SafeWax technology will be validated grapevine, prominent on the a traditional European crop, which is damaged fungalseverely by associated diseases. The proof-ofconcept outcome will open the using possibility of SafeWax technology to treat numerous cropbearing plants of the Mediterranean region, revolutionizing Europe's crop protection practices.

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WAX COATING FOR MULTI-FUNCTIONAL SUSTAINABLE CROP PROTECTION

Challenge (P) Solution

Fungal pathogens destroy at least a third of global food crops annually. To protect crop yield plants against fungi, modern agriculture still relies on chemical fungicides, despite their adverse effects the severe on environment and human health.

SafeWax steps in to address this urgency the global to increase sustainability and security of the agrifood system and develop alternative green strategies for fungal control.

What is SafeWax?

Our innovation SafeWax, draws inspiration from superhydrophobic plants like lotus and broccoli, to offer a sustainable shield against fungal threats in crops.

Using natural fatty acid sprayable formulations, SafeWax forms a selfassembled protective coating with anti-adhesive, self-cleaning, and antimicrobial properties and equips vulnerable crops with a wax-like defense.

SafeWax isn't just about protection; it's also designed for UV filtering, sun damage prevention, and dew condensation for water collection, vital in our changing climate.

Consortium



We create chemistry



Novelty S Ambition Antifungal activity Bioinspired technology Biopesticide formulations Facile spray application

