



Cooling Crops is a pioneering academic spinoff committed to ensuring global food security by empowering farmers to overcome land degradation and thermal stress. Our patented sprayable powder restores the natural microbiome and boosts nutrient absorption, enhances thermal resilience and accelerates growth.

We develop advanced materials to help solve some of our food system's most **critical challenges**

1°C Increase in temperature is estimated to reduce global yields by

\$878 Bn/year

Global cost of land degradation, desertification & drought (UNCCD). In areas like India, erosion costs \$1.9 Bn/year in lost productivity.



\$2.1 B

Global annual losses from chill hour deficits, with stone fruits and nuts most affected

\$10 B

Global annual cost of frost events, with 25-50% losses in crops like apples, citrus, kiwifruit

33%

of agricultural land globally experiencing yield reductions due to soil degradation

Our technology helps boost crops **yield & quality**

Patented Green Efficient Scalable

1 CoolEmerge™

Restoring the natural biocrust & microbiome, reducing wind erosion, fixing nitrogen and improving water retention

2 CoolGrowth™

Cooling down plants to supply sufficient chill portions and heating them to prevent frost and support dormancy breaking

Enhanced soil stability

Wind tunnel tests showed >80% strengthening of the soil's bio-crust by compared to untreated soil, drastically reducing wind erosion

Improved water retention

POC proved X3 water retention four days after application, aiding plant growth and soil restoration in arid conditions

Temperature reduction w/ PDRC

Direct sunlight experiments demonstrated astonishing temperature reductions of 2°C to 5.5°C compared to control samples

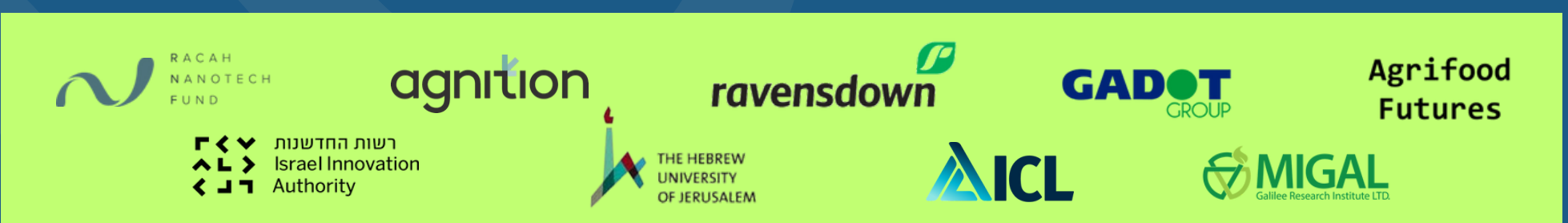
Improved emergence

*Typical carrot emergence rates are 40-70% without CoolGrowth, while 70-80% are considered ideal

Field trial on carrots showed Improve emergence/sprouting by 3-12%. Revived soil crust remain healthy through time and shows increased photosynthesis rates and sustain heath even after treat with herbicides

Partners

Contact us to learn more: sagi@coolingcrops.com



www.coolingcrops.com

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