

FUTURISTIC MYCOLOGY

By now, pretty much everyone is agreed on the fact that climate change is coming and that it's a bad thing. Actually it's a really, really bad thing. As the world's population continues to increase and extra people, with extra mouths to feed are born, the demand on food supplies will increase dramatically. The United Nations estimate that in the next ten years the demand will raise by about 14%, with the ten years after that seeing similar gains. On the other hand, climate change is set to cause a serious problem for food production and many scientists estimate that even our current production rate is not sustainable.



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What we need are tools that allow our crops to become better at dealing with a harsh, changing environment. That's where fungi come in.

A company called Adaptive Technologies has created a fungal product exactly that, it helps crops of their regular temperature researchers who developed this from plants already growing in conditions. In Yellowstone national volcanic activity, Dr. Rodriguez and Dr. Redman of Adaptive found plants that were able to grow in 65 degree Celsius temperatures. When transported back to the lab they found microscopic mycorrhizal fungi growing on the plant.

MYCOLOGY VS CLIMATE CHANGE

Adaptive Technologies has called BioEnsure which does grow in conditions far outside range they can tolerate. The product took inspiration in seemingly impossible park, a site full of and Dr. Redman of able to grow in 65 transported back mycorrhizal fungi growing on

When the fungal growth was removed the plants were unable to keep growing in the stressful high temperatures. After it was added back in, the plants started to grow again, proving it was their fungal friend, not an adaptation that allowed them to face Yellowstone temperatures. Adaptive Technologies hope to expand their product line and believe BioEnsure is just the tip of the iceberg in a host of fungal products that can fight against climate change.

