

# WORLDS BEST AGRONOMISTS

Some of the worlds best agronomists don't have eyes, ears, nor a brain cell.

**NO, I'm not talking about Politicians.....** These agronomists are attracted to "Sugar Daddies", and will go out of their way to make them happy, as long as daddy keeps showering them with "sugar". They know more about agronomy than David Attenborough, and even Einstein.

**The "Sugar Daddies" are plants,** and their agronomists are PGPR's. (Plant Growth Promoting Rhizobacteria).

## How does it work?

When exposed to stress, (drought, heat, nutrient deficiencies, pests, disease, salinity, toxins) plants find it difficult to suddenly import the "raw materials", start up the factory, and produce hormones necessary to fight the stresses. So they outsource these functions to the PGPR's, in return for "sugar" (root exudates). The contents of the exudates indicate what problems their "Sugar Daddy" is experiencing, and this stimulates production of hormones which help alleviate the problems. I refer to this synergy as Natures Biostat.

Modern research has identified the benefits of many of these hormones and they are often prescribed for promoting plant health, vigour and protection against stresses.

These include:

**Auxins, Cytokinins, Gibberellins, Abscissic Acid, Salicylic Acid, Japonic Acid, ACC deaminase,** as well as chemicals which **solubilize, both macro and micro-nutrients, and fix atmospheric Nitrogen.**

PGPR's work closely with other beneficial microbes such as **Mycorrhiza, Trichoderma, Rhizobia, Beauveria Bassiana, and Bacillus Thuriensis** to form great symbiotic teams.

## With all this "knowledge", why do we still need agro-chemicals?

**Very simple.** Because agro-chemicals, while giving a quick solution to many problems, (weeds, pests, disease), tend to kill beneficial soil biology leading to ever increasing amounts being needed as pests and disease build immunity to the chemicals.

**Our mission, is to progressively wean** ourselves off agro-chemical dependence, and restart the system with chemically tolerant PGPR's. This paves the way for progressive negation of this chemical life support, which costs more than just an arm and a leg. It's destroying our soils.

