CLAIMS

We claim:

1. A method of enhancing production in agriculture and horticulture, wherein the method comprises applying a composition comprising *Pichia anomala*, *Pichia kudriavzevii*, and *Pichia guilliermondii* yeasts, and a fermentation broth in which each of the yeasts were cultivated, and, optionally, a carrier to a plant and/or its surrounding environment,

wherein the method enhances production by one or more of the following: enhancing crop yield; reducing a nutrient deficiency in the plant; inhibiting the growth of plant-pathogenic fungi; inhibiting the growth of plant-pathogenic bacteria; and controlling nematodes.

2. The method of claim 1, wherein the composition is applied to soil.

3. The method of claim 1, wherein the nutrient deficiency is phosphorous deficiency.

4. The method of claim 1, wherein the composition further comprises at least one adjuvant selected from fulvic acid, humic acid and humate.

5. The method of claim 1, wherein the composition further comprises added nutrients for microbial growth.

6. The method of claim 1, wherein the composition further comprises growth by-products of the yeasts selected from the group consisting of enzymes, acids, solvents, alcohols, proteins, vitamins, minerals, microelements, amino acids, and biosurfactants.

7. The method of claim 1, wherein the composition further comprises a phytase enzyme.