











Researchers:

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TRADEMARK (TM2019026029) PATENT SEARCH: NOVEL, INVENTIVE, INDUSTRIAL APPLICABLE



Nutri Essence

BOTANY NUTRI BALANCE





Growth Stages

Greenhouse

System

Introduction

Botany Nutri Balance is the breakthrough in plant nutrition, that contains complete, balanced and stabilized macronutrients, micronutrients and specific bio-extract as growth booster and natural pesticides for fast yielding food crops. This unique invention has been supported by a full assessment of changing biochemical and physiological characteristics, enzymatic activities and defense mechanisms, and the associated health risks evaluation.

Novelty, Inventiveness and Intellectual Property Status

- Long Shelf Life
- Versatile
- Growth Booster
- Pest Control
- Health Assurance
- Simplicity of Application
- Economic Feasible
- Protected under Trademark and patent application in progress

Applicability and Commercialization Potential

- Soilless Cultivation
- Germination
- Feeding Seedlings
- Transplants and Clones
- Foliar Feeding
- Pest Control

Product and Technology Readiness

- TRL8 First of kind commercial system
- Successful Innovation of A Complete, Balanced, and Stabilized Nutrient in A Single Formulation
- Integration of Bio-Extract for Fast Yielding Food Crops
- Scientifically Driven Analysis for Safe and Nutritious Food Crops Production

Research Achievement

- Publications: UNESCO Publishing, Book Chapter; iMIT-SIC Book Chapter; Journal of Cleaner Production; Journal of Water and Health; 37th International World Congress, Kuala Lumpur, Malaysia; 9th International Conference in Challenges in Environmental Science and Engineering (CESE), Kaohsiung, Taiwan; 2nd International Conference on Advances in Biotechnology, Kuala Lumpur, Malaysia
- Research/Innovation Fund: Research University Individual (RUI): (1001/PREDAC/814272); MTSF Science and Technology Research Grant: (304/PREDAC/6050358/M126)
- Talent Development: 1 master and 1 PhD graduate
- Recognition: Gold Medal, International Malaysia-Indonesia-Thailand Symposium on Innovation and Creativity (iMIT-SIC)

Industry/ Business Partner/ Level of Impact

- Sustainable Food Security Management
- Knowledge Enhancement
- Wealth Creation
- This New Invention Would Benefit the Bottom Billions, for A Better Crop Yield and Quality Particularly Farmers and Cultivators Who are Facing Interference Due to Climate Change, Season, or Adverse Natural Events.



Contact Person: