

Research and Development of Echinacea Mouthwash

1. Title of Research : Research and Development of Echinacea Mouthwash

2. Cross-School Research and

Development Team Members

Department	Name	Position
Dept of Tropical Agriculture and International Cooperation, National Pingtung University of Science and Technology	Pearl Pei-Chun CHANG	Assistant Professor
Dept of Cosmetic Science, Chia Nan University of Pharmacy and Science	Alex Chao-Hsien Lin	Assistant Professor
Topyield, T.J. Enterprise	Liang-Wei Peng	Financial Manager

3. Content of Cross-School Research and Development

This project is oriented towards the mass production of the antibacterial ingredients of Echinacea and the development of health care products for mouthwash. The promotion goals include the establishment of extraction methods, antibacterial testing, and formula design testing.

4. Description of Industrial Needs and

Research Result Applications

Affected by the novel coronavirus

epidemic, the domestic demand for antibacterial and virus-killing products surged. Echinacea mouthwash is very thematic and worth developing.

Echinacea extract can also be developed for other health and cosmetic products.

5. Performance of Cross-School Research and Development

Establish industry-university cooperation projects with other manufacturers.

Cultivate students' ability to extract and antibacterial experiments and design formulas (according to the needs of cooperative enterprises).

Helping students to carry out matchmaking and pre-employment training in cooperative enterprises.



Fig 1 : Echinacea plants and echinacea flowers produced on the campus farm.