

35th International Vegetable Training Course "Vegetables: From Seed to Table and Beyond" Module 1

行政院農業祭員會合中區農業政良場 Tetchung OfstickAgnetrulural Research and Extension Station.

Development Action Planning

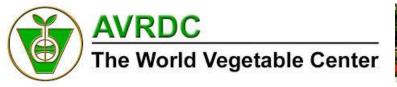
(DAP)

Yu-Heng Lin



Taichung District Agricultural Research and Extension Station TEL: +886-4-8531970 E-mail: linyh@tdais.gov.tw

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AVRDC The World Vegetable Center



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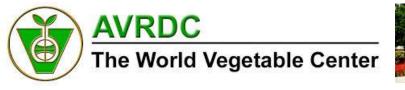








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Council Of Agriculture, Executive Yuan



Yu – Heng Lin

Education

- M.S. Dept. Horticulture and Landscape Architecture, National Taiwan University, 2011
- B.S. Dept. Horticulture, National Chung Hsing University, 2009

Taichung District Agricultural Research and Extension Station (TDRIS)

- Our station consists of the main station at Chunghua County and one branch station located at Nantou County .
- 3 research units Crop improvement, Crop environment and Extension section
- 60 researchers in which 7 senior researchers, 14 associated researchers, 36 assistant researchers, and 3 specialists.

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My research

- Tomato breeding for heat tolerance and TYLCD resistant, Pumpkin and Chinese cabbage breeding for heat tolerance.
- Develop organic culture technique.























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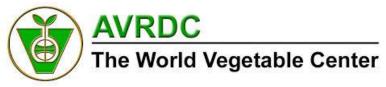














Wing bean



Bitter guard



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Basil



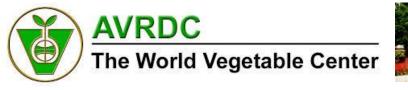




Butterfly pea



Sesbania





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Grafting practical

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Irrigation

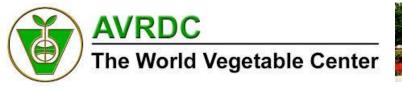
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Drip irrigation

Sprinkler irrigation



Intercropping

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Corn & Turmeric

Egg plant & Papaya



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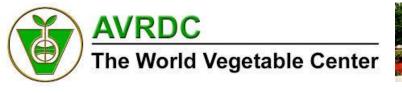
Predator insect

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eocanthecona furcellata (Wolff))

Green lacewing



Parasitoids

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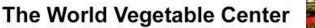




Parasitoid wasp

Entomopathogenic fungi

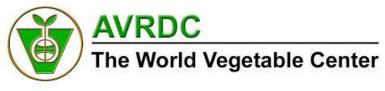










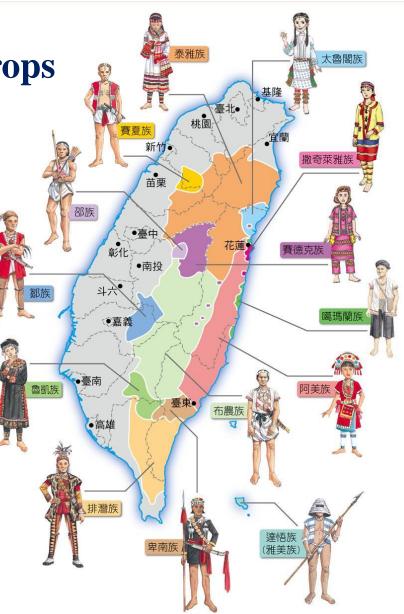


Development Action Planning (DAP) To develop the production of indigenous vegetable crops in aboriginal residential areas in Taiwan

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- Taiwan population : 23,000,000 people
- Ethnic group :
- >95% Han Chinese
- 2.3% Aborigines
- 16 groups of indigenous people







The problem of the vegetable production in aboriginal residential area in Taiwan

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- Limited of the cultivated land area
- Remote location
- Aging of agricultural population
- Lack of cultivation technology
- A small range of vegetable species can be selected in summer





Development Action Planning (DAP) To develop the production of indigenous vegetable crops in aboriginal residential areas in Taiwan

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- Who : Aboriginal people
- When: 2017~2018
- Where: Central Taiwan





How to do

• Survey the indigenous vegetable (from the older family member)

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- Analysis the nutrition
- Understand the characteristics and habit
- Establish the production system (IPM & GAP)
- Held the demonstration (extension and promotion)











Integrated Pest Management (IPM)

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- Crop choose
- Physical control

Covering UV light absorption plastic sheeting Using yellow sticker paper Using insect-proof netting Covering the soil surface with silver plastic cloth

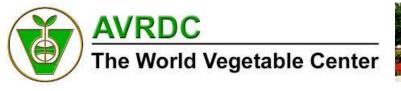
- Chemical control
 - Applying insecticides
- Biological control

Intermediate host control Attractant or repellent crop use Biological predators & parasitoids

Crop management Using disease-free seedling Implementing a insect-host-free period Crop rotation & intercropping





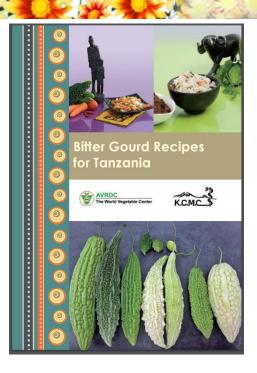


The implant of the challenge

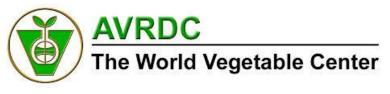
- Find high economic indigenous vegetables
- Educate the customer
- Create the sell channel



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Expect effect

- **To enhance the land use efficiency in tribe**
- **To establish the GAP & IPM of indigenous vegetables in tribe**
- To build the tribe specific agriculture characteristics
- To create their benefit and improve their life quality





Thanks for your attention~

SAWADIKA~