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▶ TRADE SECRET (TS/IO/2019/033)



# RAPID PRODUCTION OF FIG PLANT STOCK VIA NOVEL TISSUE CULTURE TECHNIQUES



## Novelty & Inventiveness

- The current project is the first in Malaysia to have successfully produced high-quality fig plant stocks via tissue culture for commercial purposes.
- Universiti Sains Malaysia is the only distributor for high quality tissue cultured fig plants

## Applicability

- Plants can be grown in the local fields and fruits can be harvested for fresh fruits and for various industries.



## Product/Technology Readiness

- TRL 5/6
- Product is available for commercialization. Plants are being sold to SUPERFRUIT Valley Perlis and to local nurseries at RM 15-25.



## Research Achievement

- SILVER medal in the 30<sup>th</sup> International Invention, Innovation & Technology Exhibition 2019
- Model project in the IM-TGT University Network Strategic Action Plan Project Development Workshop 2016

## Intellectual Property

- Protected by trade secret

## Industry/Business Partner

- Fig Direct Sdn. Bhd.

## Commercialization Potential

- High demand in Malaysia and the ASEAN region for novel fig plant stocks for the establishment of farms.
- High demand of fresh fig fruits from the supermarkets and from the fruit juice industries.
- Demand from Sunnah related and pharmaceutical industry



## Level of Impact

- Supply disease free novel fig plant stocks to the agriculture sector of Malaysia
- Assist in the establishment of fig farms in Malaysia
- Create new job opportunities, increase income generation of local growers and encourage entrepreneurs in various industries
- Establish efficient planting and harvesting of fruits via precision farming incorporated with IoT
- Project is funded by the Innovation Seed Fund and Research University Top Down Grant.
- 4 Publications in various scientific journals and write-ups.



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