

Research Introduction



Faculty of Agriculture, Yamagata University

Laboratory of Vegetable Science

Main Research Subjects:

Mechanism of Physiological Disorders in Fruits and Vegetables

Physiological disorders in fruits and vegetables are caused by non-pathological disorders such as weather conditions, lack of nutrients, mechanical damages etc.

In our laboratory, mechanisms of the following physiological disorders have mainly been studied:

1. Cuticle-cracking in tomato fruit.
2. Watercore symptom in melon fruit.
3. Surface depression in netted melon fruit during storage.
4. Spongy tissues in mango fruit.

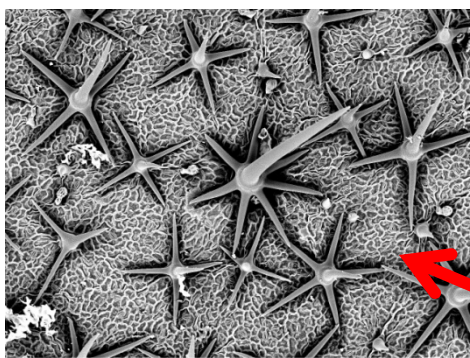
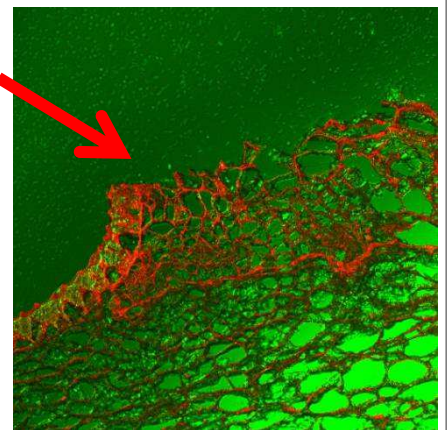
In addition, the following studies have been also conducted.

1. Vegetable production using Organic Electro-Luminescence Display.
2. Effect of UV and visible lights on pigmentation and anti-oxidant capacities.



Suberized periderm in netted melon

Vegetable production using Organic Electro-Luminescence Display



Watercore in ripe melon fruit

Trichomes of eggplant



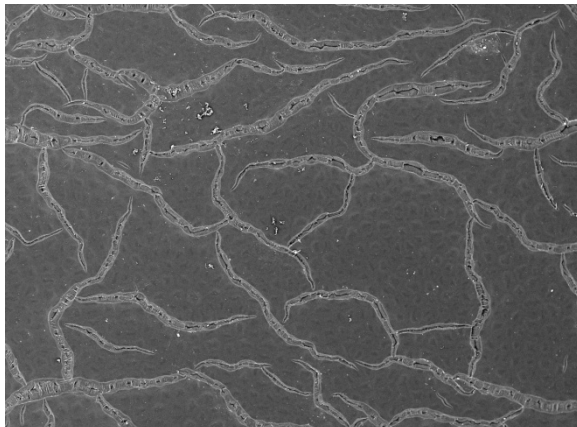
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Hope For The Future

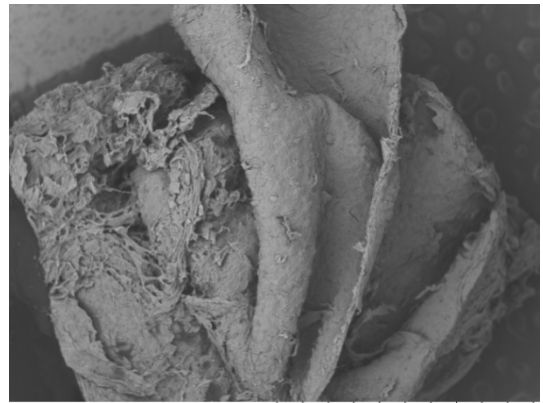
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Malformed strawberry fruit



Microcracking of the epidermis in tomato fruit



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Spongy tissue in ripe mango fruit

What are we studying more?

“Wild Chilean strawberries”, “Partitioning of photo-assimilates”, “Plant stress physiology” and “Physiological traits of wild eggplants” . Please visit our URL for the details.

Belongings: Safe and Reliable Agricultural Production Course

Research Field: Horticulture

Self Introduction: Professor & Dr. **Takashi NISHIZAWA**

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