

PN11 TERBARU

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Mengintegrasikan *Microalgae* dan *Microgreens* ke dalam Tri Darma Perguruan Tinggi

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Senin, 27 Agustus 2018

Microalgae



Merupakan tumbuhan tingkat rendah

Kelompok Microalgae

1. Chlorophyta



2. Cyanophyta



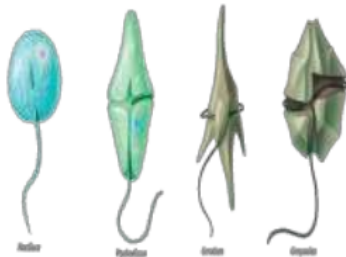
3. Rhodophyta



4. Bacillariophyta



5. Dinoflagellata



6. Euglenophyta



Spirulina platensis

1



180% kalsium lebih banyak dari pada susu murni



670% protein lebih banyak dr pd tahu



3100% beta karoten dr pd wortel



5100% zat besi dr pd bayam



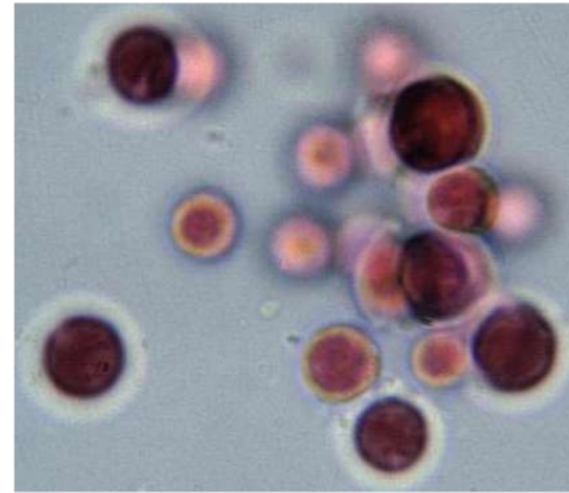
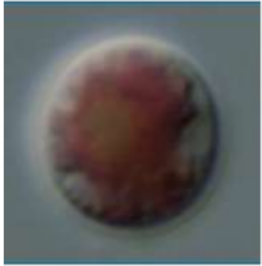
more antioxidant and anti-inflammatory activity 3 g of Spirulina \approx 5 servings of fruits and vegetables



Polysaccharides, Phycocyanin, Phenolic acids, tocopherols (vitamin E), PUFAs Diacylglycerols

Porphyridium cruentum

2



Photosynthetic Pigmen

- Chlorophyll-a
- Phycocyanin
- Phycoerythrin
- Allophycocyanin
- A and β -Carotene
- Xanthophylls

General Characteristics

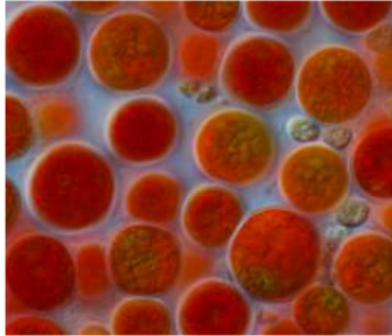
- Mostly marine
- Multicellular ; colony
- Cell covering : Sulfated polysaccharides

Cell Covering

- sulfated polysaccharides,

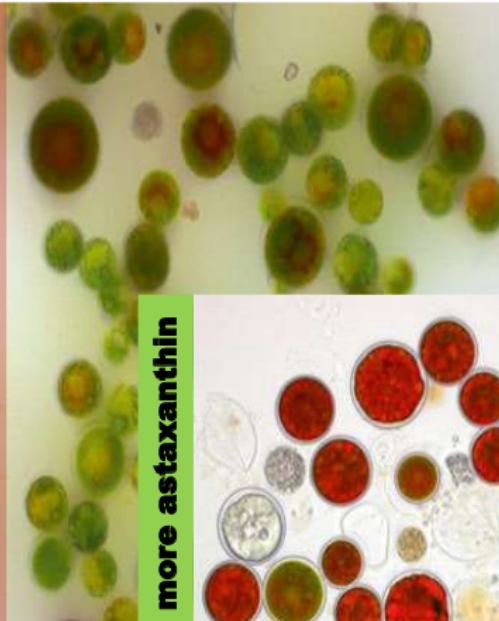
Haematococcus pluvialis

4

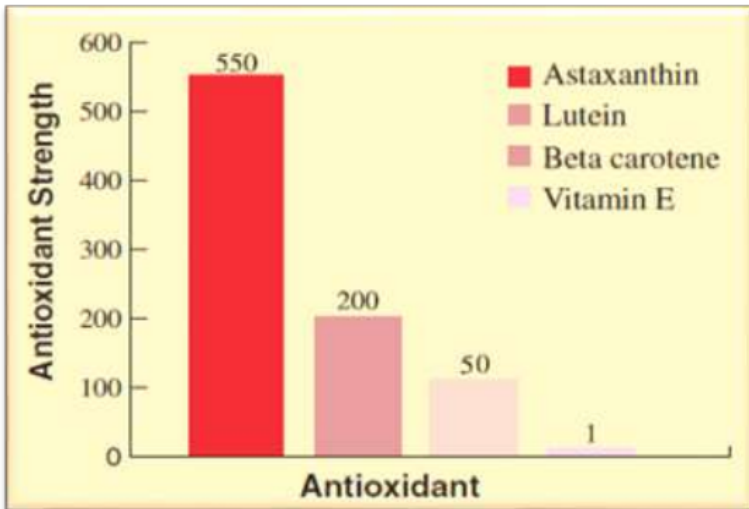


astaxanthin, zeaxanthin, canthaxanthin, lutein, β -carotene, oleic acid.

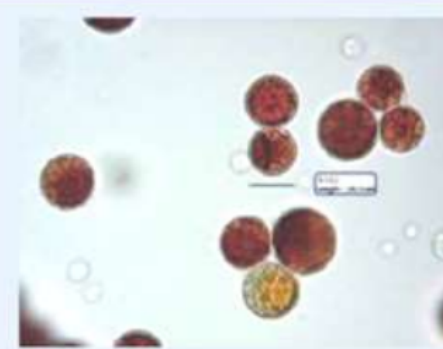
Palmelloid cells : more chlorophyll



Dormant cysts : more astaxanthin



3 mg astaxanthin per 240 g serving



1% to 7% astaxanthin in microalgae

Microgreens



Tumbuhan dari kelompok sayuran atau herbal, yang dipanen pada 7-21 hari sejak penanaman

1. Coriander

2. Basil

4. Sunflower

3. Broccoli

5. Wheatgrass

Jenis Microgreens







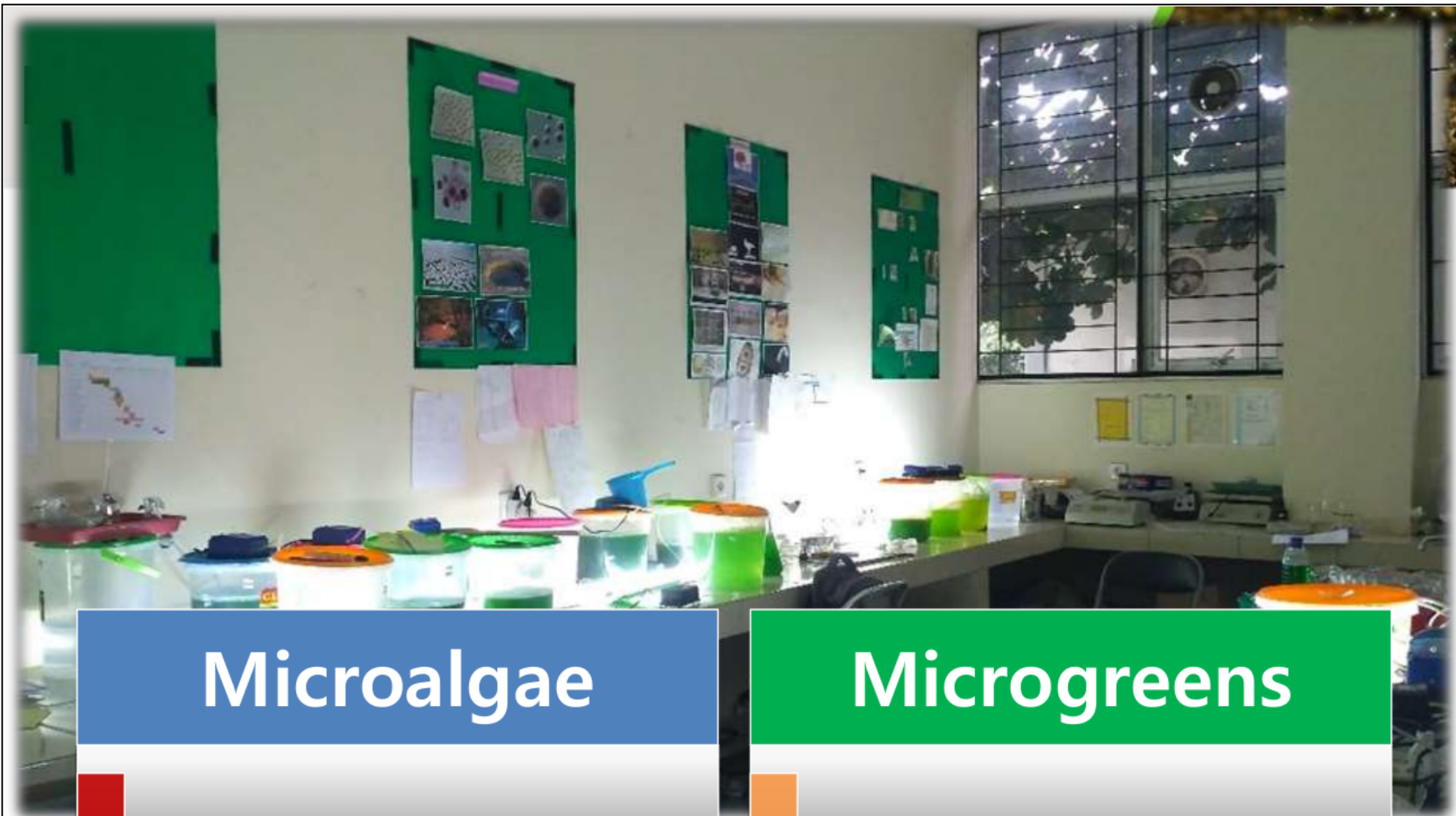
Keunggulan:

1. Dipanen 7 – 21 hari
2. Tidak perlu lahan luas
3. Tidak memerlukan pupuk kimia

Kegunaan:

1. Garnish
2. Sandwich
3. Sup
4. Salad





Microalgae

Microgreens

Botani Cryptogamae

Fisiologi Tumbuhan

Biologi dan Budidaya Alga

Nutrisi Tumbuhan

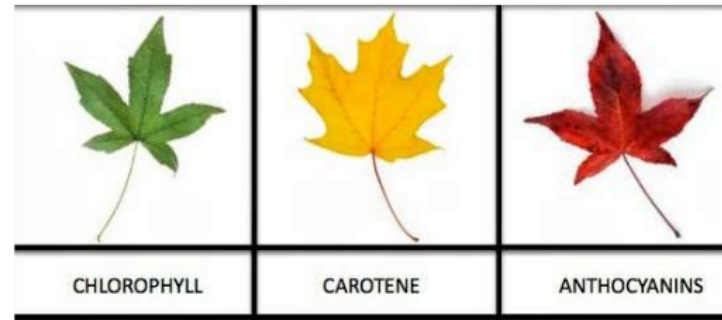
Penelitian Microalgae (Sejak 2008)



1. Biodisel



2. Pigmen



3. Anti Jamur



4. Antiaging



5. Antioxidants



6. Tabir Surya





Porphyridium cruentum



Spirulina platensis



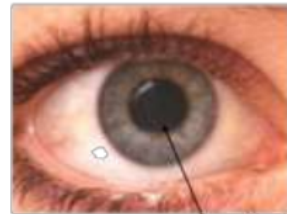
Penelitian Microalgae (Sejak 2008)



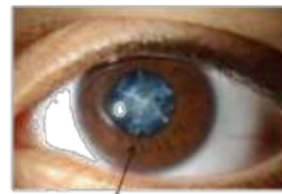
7. Diabetes



8. Katarak



Mata normal



katarak

9. Parkinson



11. Alzheimer



NORMAL



ALZHEIMER

10. Anticancer



12. Drinking Water

YOUR
DRINKING
WATER
IS SAFE

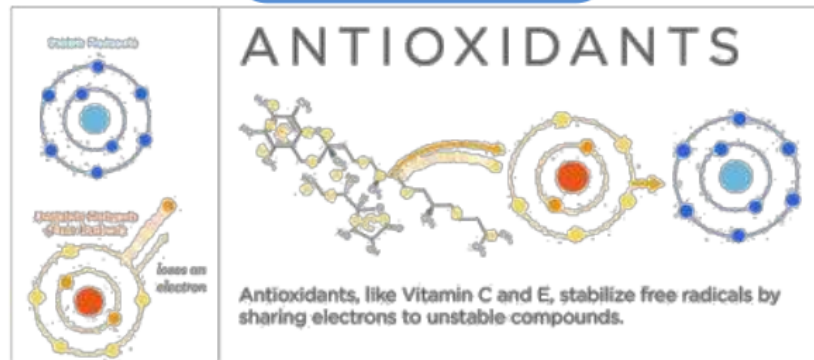




Kajian Microgreens (Sejak 2017)



1. Antioxidants



1

Antioksidan merupakan molekul yang mampu memperlambat atau mencegah proses oksidasi molekul lain.

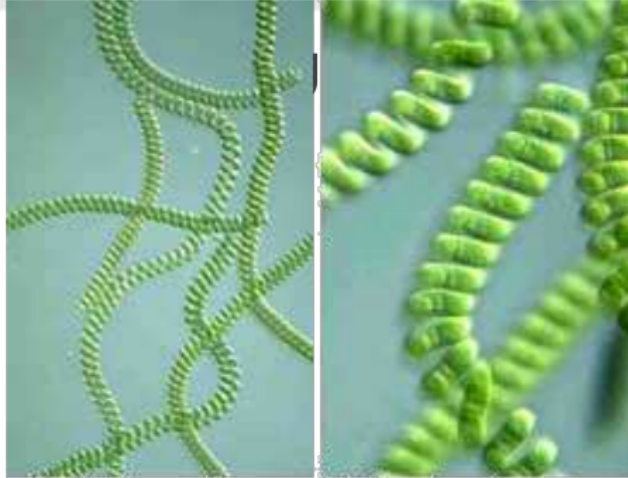
2. Anticancer

2

Kanker merupakan penyakit yang disebabkan oleh ketidakaturan perjalanan hormon. Biasanya gejala kanker dapat timbul secara perlahan. Penyebab kanker dapat meningkat karena gaya hidup yang salah.

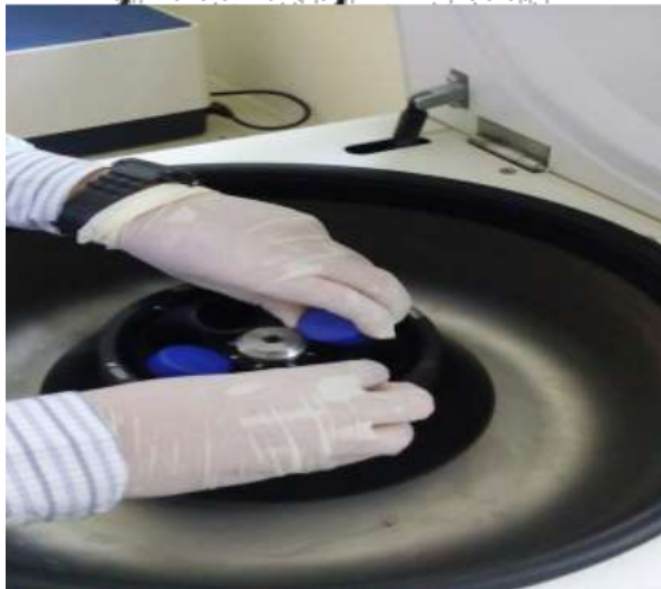
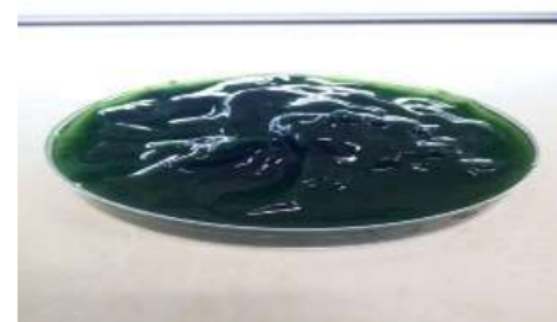


Pengabdian Kepada Masyarakat



Spirulina platensis

1. Berukuran besar
2. Mudah dipanen/di saring



1. Berukuran kecil
2. Sentrifugasi









**Wassalamu
alaikum**



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