

Riceleezza Conde

conde@ricegrain.edu

GM RICE and its potential

- 1. Creation of golden rice
- 2. Why golden rice?
- 3. Controversial issues
- 4. Vitamin A deficiency causes
- 5. Solution?

Golden rice

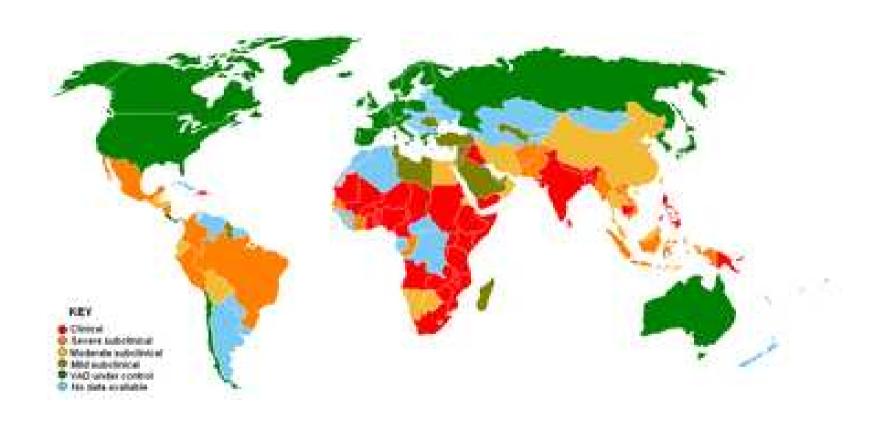
- is a variety of rice (Oryza sativa)
- is genetically modified
 - provides pro-vitamin A (precursors of beta carotene)

Two Varieties of Golden Rice

- Golden Rice
 (2000)
 precursors of beta
 carotene (pro vitamin A)



Vitamin A Deficiency Map



Vitamin A deficiency leads to

blindness



malnutrition



Controversy

Commercial biotech companies

VS

Environmental and anti-globalist groups

Causes of vitamin A deficiency

- poverty
- loss of biodiversity in food crops
 - + corporate control of agriculture based on GM foods.
- lack of varied diet containing vitamin A

Summary

- Creation of golden rice
- Reasons
- Environmentalists and anti-globalists against GM rice
- Some causes of Vitamin A deficiency

SOLUTION?

Combination of various methods of vitamin A supplementation

- Variety of foods rich in vitamin A
- Vitamin A supplemented
 - by injection
 - orally
- GM rice available for human consumption