

# MUSHROOM PRODUCTION WITH JUNCAO TECHNOLOGY AS A TOOL TO FIGHT POVERTY

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At

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TECHNOLOGY AND ITS CONTRIBUTION TO THE  
ACHIEVEMENT OF SUSTAINABLE AGRICULTURE AND THE  
SUSTAINABLE DEVELOPMENT GOALS IN NIGERIA"

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# BACKGROUND

- Mushrooms are technically not plant but are classified as vegetables
- They are fungal
- Shapes; shape (umbrella, kidney, cap) depend on species }
- Cap (pileus)- Colour (white, grey, yellow)

# DIAGRAM OF

## MUSHROOM



# BACKGROUND CONTINUE

- There are many mushroom but Agaricus mushroom is the most commonly available
- Mushroom was first cultivated in China around 600 AD
- in Nigeria mushroom had been underutilized
- In Nigeria many edible mushrooms are gathered from the wild eg; forest, wood, grassland etc

# MODE OF MUSHROOM FEEDING

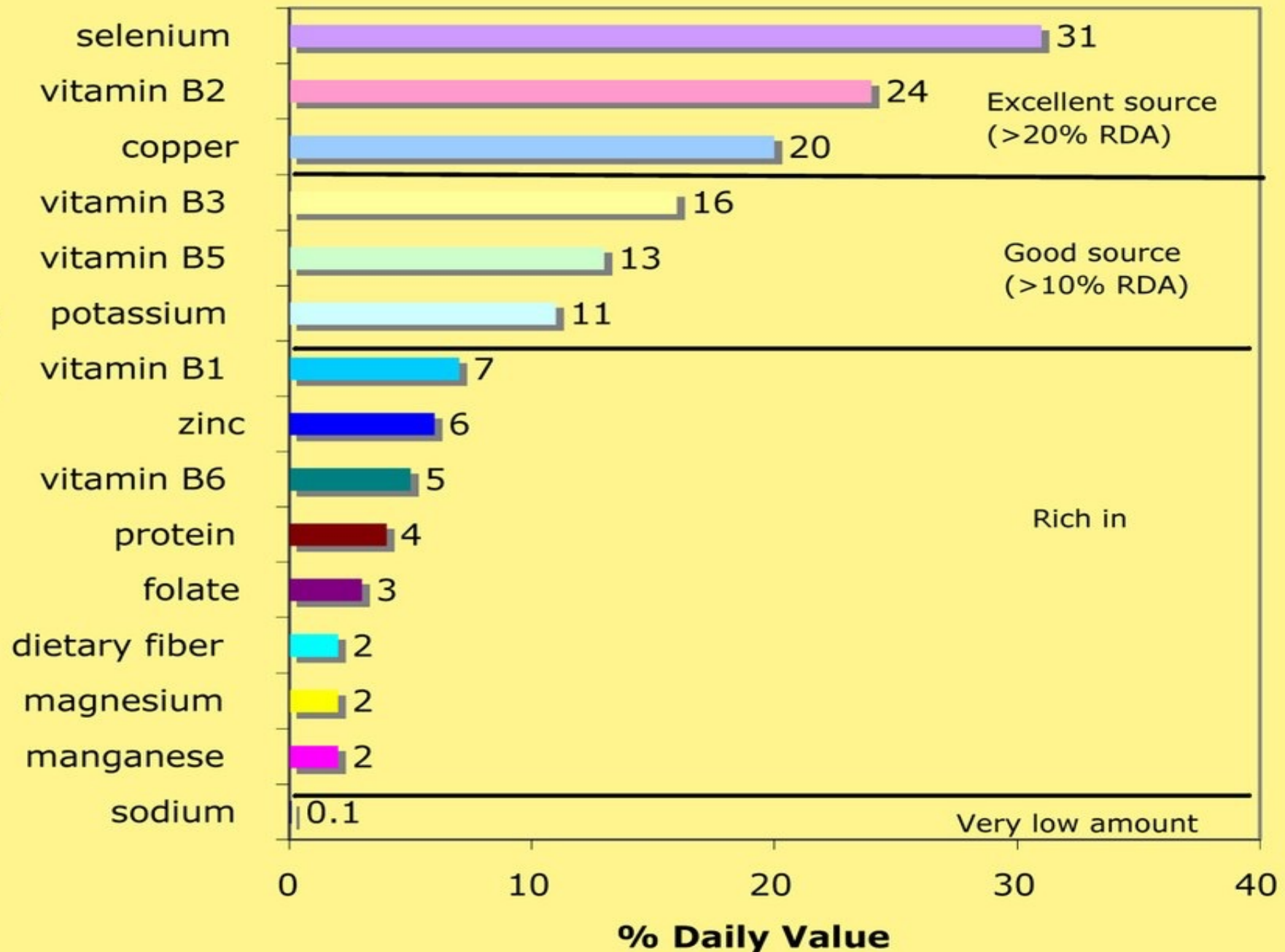
- Mushrooms are unique
- They don't have chlorophyll like plant and as such they do not undergo photosynthesis
- They obtain their food through substrates

# COMPOSITION OF MUSHROOM

- Mushrooms contain vitamin B, C and D, including niacin, riboflavin.
- They contain various minerals including potassium, phosphorus, calcium, magnesium, iron and copper
- Mushroom provides carbohydrates, but low in fat and fibre, and contains high quality protein no starch

# Nutrients in Crimini Mushrooms, Raw

3 oz-wt (84 g)





# MUSHROOM AS A TOOL TO FIGHT POVERTY

- (A) Food; Many tropical mushrooms can be harvested and consumed within 10 days after spawning
- Using different varieties, mushrooms can be cultivated all year round.
- (B) Employment; Mushroom cultivation can be labor intensive. Therefore, its activity can generate new jobs especially in less developed countries.

# MUSHROOM AS A TOOL TO FIGHT POVERTY CONTINUE

- (c) Medicine; Some mushroom species can be use for medicine.
- Ganoderma resinaceum has been reported to lower blood sugar, While Pleurotus tuberregium was reported to protect kidney and liver toxicity
- mushroom has medicinal benefits of certain polysaccharides, which are known to boost the immune system

# GANODERMA



# MUSHROOM AS A TOOL TO FIGHT POVERTY CONTINUE

- (D) Pollution; industrial and agricultural waste like saw dust, woodchips etc that would have caused pollution through process of burning
- are used as substrate for mushrooms which they use as food thereby reducing environmental pollution
- (E) lignocellulosic substrate used for mushroom can be use to produce biogas and biofertilizer

- (F)Insecurity; Juncao grass usually use as substrate can be use as feeds for animal
- This can be use in ranching to feed cattle thereby reducing crisis between herders and farmers in Nigeria

# CONCLUSION

- “ It is said that the earth cannot produce more: Man has to do more with what the earth produces”
- In view of mushroom pleasing flavor, high protein, and medicinal values, mushrooms undoubtedly
- represent one of the world’s greatest untapped resources for the future and can be used as path to meet the UN sustainable development goals (SDGs)

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THANK YOU

