



## Comment on Article:

### *In Vitro* Tuberization in Genotypes of Cassava

Authors:

C.M. Fogaca, E.L. Finger, W.C. Otoni, D.C. Cordeiro, T.D. Correia, M.P. Lauriano and A.O. Ferreira

This paper is a good trial to set a protocol for in vitro tuberization of 2 cassava genotypes which can be used for further biotechnology activity. I encourage such line of research for an orphan crop since Brazil is leading and pioneering of world cassava. I have the following remarks on the methodology of the current piece of research.. These remarks shall raise topics which are important but do not affect quality of the article:

1. The authors approach is treating cassava as potato tuberization though there is a difference since cassava is a root and potato is a stem. Differences would include anatomy, endogenous chemical and hormonal balance.

2. Tuberization in potato is focused on high sugar concentration and growth retardants to promote tuber formation ( shift of sugars to starch ) but in the present paper authors used high sugars and benzyl adenine ( BA ) at higher concentration which should not lead to tubers formation. For this reason authors reported authors that they did not have tubers. In this respect, I suggest in future to use a growth retardant instead of BA. Some researchers used 2, 4-D, Paclobutrazole and others which could help in this respect.

3. Supplements were used at very high concentration( sometimes 10 –folds). Perhaps a typewriting error that used g/l instead of mg/l as follows :

a) Thiamin-HCL was used as 0.01 g/l and it should be 0.1 mg/l.

b) Pyrodoxin-HCL was used as 0.02 g/l and it should be 0.05mg/l.

c) Nicotinic acid was used as 0.05 g/l and it should be 0.5 mg/l

d) Glycine was used as 0.02 g/l and it should be 2 mg/l.

4. Light treatment in the Abstract should be corrected to be as it is stated in the Materials& Methods.

5. Tables have to show number of produced tubers which I believe is a major criterion.

Samir Z. El-Agamy

Professor Emeritus  
Assiut University, Assiut, Egypt

**Answer of F. Finger**

The expression tuberization is general and I know that cassava is a root and not a tuber, this has been used for other authors.

The concentrations are correct, no mistake was done.

I appreciate the suggestions about growth regulators and I will take in consideration in the next experiment.

F. Finger