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Tissue Culture

During plant tissue culture growth

sucrose acts as a fuel source for sustaining photomixotrophic metabolism

(organisms can use different sources of energy and carbon), ensuring optimal development, although other important roles such

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as carbon precursor or signaling metabolite have more recently been highlighted. Sucrose is a very important part of nutrient medium as an energy source, since most plant cultures are unable to photosynthesize effectively owing to poorly developed

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cellular and ...

Development

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and Biotechnology
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Plant Tissue Culture,
Development, and
Biotechnology - 1st ...
Plant tissue culture is
one of the most
rapidly growing areas
of biotechnology

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because of its high potential to develop improved crops and ornamental plants.

With the advances made in the tissue culture technology, it is now possible to regenerate species of any plant in the laboratory.

Plant Tissue Culture:
Benefit, Structure,

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Trigiano, Dennis J.

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Tissue Culture

Edition . First
Published 2011 .

eBook Published 30

March 2016 .

Development
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Plant Tissue Culture,
Development, and
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Plant tissue cultures
can be defined as the
culture of all types of
plant cells, tissues,
and organs under
aseptic conditions.

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Nowadays, plant tissue culture is an integral part of molecular approaches for plant improvement and acts as an intermediary during gene isolation and genetic transformation.

Plant Tissue Culture -
an overview |

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By plant tissue

culture new plants

may be raised in an

artificial medium

from very small parts

of plants, such as,

shoot tip, root tip,

callus, seed, embryo,

pollen grain, ovule or

even a single cell,

whether the cultured

tissue develops into a

plant or grows

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unorganized depends on the genetic potential of the tissue and the chemical and physical environment.

Tissue Culture:
Definition, History
and Importance
Plant tissue culture is
a collection of
techniques used to
maintain or grow
plant cells, tissues or

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organs under sterile conditions on a nutrient culture medium of known composition. It is widely used to produce clones of a plant in a method known as micropropagation. Different techniques in plant tissue culture may offer certain advantages over

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Traditional methods of propagation, including: The production of exact copies of plants that produce particularly good flowers, fruits, or have other de

Plant tissue culture -
Wikipedia

Plant Tissue Culture Techniques. There are mainly two major

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Techniques in plant tissue culture. a)

Static culture (Solid-agar Medium) It can

also be called as callus plant tissue

culture. In this

procedure, the plant-tissue is grown on a

solid agar medium

and always gives rise

to tissue mass called

a callus. This callus

culture technique is

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easier as it is easier
and even convenient
for the initial
maintenance of cell-
lines, and also for
carrying out the
investigation studies
related to ...

Plant Tissue Culture
Techniques: 6
Methods & Protocols
On the other hand,
plant tissue culture

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may be used for cloning purposes, genetic modification of a given plant or simply to accelerate or increase yield of the plant of interest.

Tissue culture is therefore of great significance in biological studies due to its wide range of applications. The processes involved in

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tissue culture may be complex, requiring a lot of care to avoid such effects as contamination.

Because of the complexities that may be involved in some of the steps, this may not ...

Tissue Culture and its Types - Applications, Techniques ...

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You may hear about different types of plant growth regulators: cytokinins, auxins, abscisic acid, and gibberellins.

Auxins and cytokinins, or more specifically, the balance between the two, is important for the organogenesis development in tissue culture plants. What

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are plant growth regulators? Plant growth regulars are tiny molecules that have a tremendous effect on a plant's development, and although found in small concentrations, they can have a significant influence on development ...

Plant Growth

Page 30/38

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Regulators in Tissue Culture - Plant Cell ...

Based on the principle that plant cells have the ability to retain the full genetic potential for development and differentiation (i.e. plant cellular totipotency), the plant tissue culture technique allows regeneration of an

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entire plant from
single cells or a small
piece of tissue.

Plant Tissue Culture -
Lifeasible

Plant tissue culture is
the in vitro manipula-
tion of plant cells and
tissues, which is a
keystone in the
foundation of plant
biotechnology. It is
useful for plant

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Propagation and the study of plant hormones, and is generally required to manipulate and regenerate transgenic plants.

Essay on Plant Tissue Culture | Botany

Plant Tissue

Culture---The growth or maintenance of plant cells, tissues,

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organs or whole
plants in vitro.

Regeneration---In
plant cultures, a
morphogenetic
response to a
stimulus that results
in the products of
organs embryos or
whole plants results
in the products of
organs, embryos, or
whole plants.

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Plant tissue culture-

Michigan State
University

Although tissue culture has been around since the beginning of the 18th century, plant tissue culture only began developing in 1898. Gottlieb Haberlandt, a German Botanist, made the first attempt to use the in

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vitro method when
grow plant tissues.
The cells he used
were varied, palisade
tissues coming from:

The History of Tissue
Culture - Plant Cell
Technology ...

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