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Biosynthesis User
Guide
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Biosynthesis
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Capsaicin
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Guide

Summary: The
pungency in food
flavored with chili
or hot peppers
comes from
phenolic alkaloids
called

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Biosynthesis User

Guide

capsaicinoids.

These are exclusively produced in fruits of plants belonging to the Capsicum genus. A quarter of the world population consumes hot peppers in some form daily [1]. Structurally capsaicinoids have

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a common
aromatic moiety,
vanillylamine and
variable lengths of
short chain fatty ...

Evidence of
capsaicin synthase
activity of the Pun1

...

Molecular mapping
of capsaicinoid
biosynthesis genes
and quantitative

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trait loci analysis
for capsaicinoid
content in
Capsicum Article
(PDF Available) in
Theoretical and
Applied Genetics
108(1):79 ...

Evidence of
capsaicin synthase
... - BMC Plant
Biology
artemisinin and

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arteannuin B
biosynthesis on

07-May-2014,

costunolide

biosynthesis on

07-Apr-2014,

diterpene

phytoalexins

precursors

biosynthesis on

01-Apr-2014,

luteolin glycosides

biosynthesis on

28-Jan-2014,

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2-methylketone
biosynthesis on

27-Jan-2014,

diacylglycerol and

triacylglycerol

biosynthesis on

18-Nov-2013,

Capsaicin -

Wikipedia

Capsaicin

biosynthesis in

water-stressed hot

pepper fruits. ... It

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is known that the capsaicin biosynthesis is closely correlated with the expression of the CaPAL gene (Sung et al., 2005). In this ...

Capsaicin
biosynthesis in
water-stressed hot
pepper fruits
Highly efficient

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synthesis of capsaicin analogues was developed using condensation of vanillylamine with acyl chlorides in a biphasic H₂O/CHCl₃ system under mild conditions. For C₄-C₁₈ aliphatic or aromatic acyl chlorides, the yields were up to

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93–96% with high purity after a simple work-up procedure, and only 1–1.16 equiv of acyl chloride was needed in the reaction.

What Is Capsaicin?

9 Topical Uses and Benefits

Capsaicin

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Guide is very
Useful! - by Arron

April 27, 2013 ...

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Help & â€¦ ...

MetaCyc Boyce

Thompson Institute

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for Plant Research
capsaicin
biosynthesis
Evidence Human
inference of
function from
sequence [Curry99
] Assay of protein
purified to
homogeneity from
a heterologous
host [Weber14]

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biosynthesis in
water-stressed hot
pepper fruits ...

Molecular biology
of capsaicinoid
biosynthesis in chili
pepper (*Capsicum*
spp.). ... studies in
pungent and non-
pungent chili
pepper fruits has
identified

candidate genes
possibly involved in

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capsaicinoid
biosynthesis.
Genetic and
molecular
approaches have
also contributed to
the knowledge of
this biosynthetic
pathway; however,
more studies are ...

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user guide - Bing
Abstract.

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Quantitative variation in the accumulation of two major capsaicinoids responsible for pungency in the fruit of chile peppers, capsaicin and dihydrocapsaicin, was analyzed in a cross between the non-pungent

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Capsicum annuum parent cv. Maor and a pungent Capsicum frutescens parent, accession BG 2816. In order to identify quantitative trait loci (QTLs) for capsaicinoid content, we ...

MetaCyc capsaicin biosynthesis -

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BioCyc database
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ally craving such a
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that will give you
worth, acquire the

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several preferred
authors. If you
want to funny
books, lots of
novels, tale, jokes,
and

Highly efficient
synthesis of
capsaicin
analogues by ...

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Capsaicinoids, including capsaicin and its analogs, are responsible for the pungency of pepper (*Capsicum* species) fruits.

Even though capsaicin is familiar and used daily by humans, the genes involved in the capsaicin biosynthesis

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pathway have not been well characterized. The putative aminotransferase (pAMT) and Pungent gene 1 (Pun1) proteins are believed to catalyze the second to last and the ...

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biosynthesis in
baker's yeast

Saccharomyces ...

SUNG et al. —

Capsaicin

biosynthesis in

water-stressed hot

pepper fruits 37

Then, 1 mL

acetone was

added, and the

mixture was placed

on shaker for 1 h.

The mixture was

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Guide

filtered with 0.45
 μm PVDF

(polyvinylidene
fluoride) millipore
(diameter 13 mm);
10 μL filtered
solution was used
for each HPLC
assay. (Ochoa-Alejo
and Gómez-Peralta,
1993).

Molecular biology
of capsaicinoid

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biosynthesis in chili

...
Capsaicin (8-methy
l-N-vanillyl-6-nonen
amide) comes from
chili peppers

(*Capsicum* spp.)
and gives them
their heat. []

Capsaicin has a lot
to offer, and its
analgesic
properties are at
the top of the list.

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[] Analgesics are a type of pain reliever and include acetaminophen, a non-aspirin pain reliever, which is the active ingredient in brands like Tylenol, Paracetamol, and Panadol.

Capsaicin

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biosynthesis in
water-stressed hot
pepper fruits
The Indian pepper
'Guijiangwang'
(*Capsicum*
frutescens L.), one
of the world's
hottest chili
peppers, is rich in
capsaicinoids. The
accumulation of
the alkaloid
capsaicin and its

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analogues in ...
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Molecular mapping
of capsaicinoid
biosynthesis genes
and ...

SUNG et al. —

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biosynthesis in
water-stressed hot
pepper fruits.

352-355. Bradford,
M.M. 1976. A rapid
and sensitive

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method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding.

Activity of Enzymes
Involved in
Capsaicin
Biosynthesis in ...
Background.
Capsaicinoids,

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including capsaicin and its analogs, are responsible for the pungency of pepper (*Capsicum* species) fruits. Even though capsaicin is familiar and used daily by humans, the genes involved in the capsaicin biosynthesis pathway have not been well

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characterized.

(PDF) Molecular mapping of capsaicinoid biosynthesis genes

...

Abstract: Tables of ^1H and ^{13}C NMR chemical shifts have been compiled for common organic compounds often

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used as reagents or found as products or contaminants in deuterated organic solvents. Building upon the work of Gottlieb, Kotlyar, and Nudelman in the Journal ...

Tables of ^1H and ^{13}C NMR

resonances for common organic contaminants are

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reported in 12

different

deuterated organic

solvents ...

Capsaicin

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Triangle Books

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biosynthesis in

baker's yeast

Saccharomyces

cerevisiae Youssef,

Khaled () MOBY01

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Molecular Biology.
Mark; Abstract
Background:
Capsaicinoids are
the compounds
responsible for the
pungent taste in
the chili pepper
genus capsicum.

Discovery of
putative capsaicin

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Biosynthesis User

biosynthetic genes
by RNA ...

J. Plant Physiol. Vol.

141. pp. 147-152

(1993) Activity of

Enzymes Involved

in Capsaicin

Biosynthesis in

Callus Tissue and

Fruits of Chili

Pepper (*Capsicum*

annuum L.)

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ALEJO and JUDITH

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E. GOMEZ-PERALTA

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Gto., Mexico

Received February

2, 1992 .

A facile procedure

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for synthesis of
capsaicin - The ...
Capsaicin (8-methy
l-N-vanillyl-6-nonen
amide) is an active
component of chili
peppers, which are
plants belonging to
the genus
Capsicum. It is an
irritant for
mammals,
including humans,
and produces a

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sensation of burning in any tissue with which it comes into contact. Capsaicin and several related compounds are called capsaicinoids and are produced as secondary metabolites by chili peppers ...

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