

Miller B., Oschinski C., Zimmer W. (2001) First isolation of an isoprene synthase gene from poplar and successful expression of the gene in *Escherichia coli*. **Planta** **213**, 483-487. This paper was cited 46 times until 2010.

Title: Genetic structure and regulation of isoprene synthase in Poplar (*Populus* spp.)

Author(s): Vickers CE, Possell M, Hewitt CN, et al.

Source: PLANT MOLECULAR BIOLOGY Volume: 73 Issue: 4-5 Pages: 547-558

Published: **JUL 2010**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Response and potential of agroforestry crops under global change

Author(s): Calfapietra C, Gielen B, Karnosky D, et al.
Conference Information: Meeting on Facing the Future, APR 02-04, 2008
Rhineland, WI

Source: ENVIRONMENTAL POLLUTION Volume: 158 Issue: 4 Special Issue: Sp. Iss. SI Pages: 1095-1104

Published: **APR 2010**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Poplar volatiles - biosynthesis, regulation and (eco)physiology of isoprene and stress-induced isoprenoids

Author(s): Schnitzler JP, Louis S, Behnke K, et al.

Source: PLANT BIOLOGY Volume: 12 Issue: 2 Pages: 302-316

Published: **MAR 2010**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Photobiosynthesis of isoprene as an example of leaf excretory function in the light of contemporary thermodynamics

Author(s): Sanadze GA

Source: RUSSIAN JOURNAL OF PLANT PHYSIOLOGY Volume: 57 Issue: 1 Pages: 1-6

Published: **JAN 2010**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Engineering a platform for photosynthetic isoprene production in cyanobacteria, using *Synechocystis* as the model organism

Author(s): Lindberg P, Park S, Melis A

Source: METABOLIC ENGINEERING Volume: 12 Issue: 1 Pages: 70-79
Published: JAN 2010

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Genomics of Secondary Metabolism in Populus: Interactions with Biotic and Abiotic Environments

Author(s): Chen F, Liu CJ, Tschaplinski TJ, et al.

Source: CRITICAL REVIEWS IN PLANT SCIENCES Volume: 28 Issue: 5
Pages: 375-392

Published: 2009

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Functional characterization of LePGT1, a membrane-bound prenyltransferase involved in the geranylation of p-hydroxybenzoic acid

Author(s): Ohara K, Muroya A, Fijkushima N, et al.

Source: BIOCHEMICAL JOURNAL Volume: 421 Pages: 231-241 Part: Part 2

Published: JUL 15 2009

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Volatile organic compounds from Italian vegetation and their interaction with ozone

Author(s): Calfapietra C, Fares S, Lofeto F

Source: ENVIRONMENTAL POLLUTION Volume: 157 Issue: 5 Pages: 1478-1486

Published: MAY 2009

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Isoprene synthesis protects transgenic tobacco plants from oxidative stress

Author(s): Vickers CE, Possell M, Cojocariu CI, et al.

Source: PLANT CELL AND ENVIRONMENT Volume: 32 Issue: 5 Pages: 520-531

Published: MAY 2009

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Isoprene synthesis protects transgenic tobacco plants from oxidative stress

Author(s): Vickers CE, Possell M, Cojocariu CI, et al.

Source: PLANT CELL AND ENVIRONMENT Volume: 32 Issue: 5 Pages: 520-531

Published: **MAY 2009**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Isoprene emission is not temperature-dependent during and after severe drought-stress: a physiological and biochemical analysis

Author(s): Fortunati A, Barta C, Brilli F, et al.

Source: PLANT JOURNAL Volume: 55 Issue: 4 Pages: 687-697

Published: **AUG 2008**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: A molecular perspective on terpene variation in Australian Myrtaceae

Author(s): Keszei A, Brubaker CL, Foley WJ

Source: AUSTRALIAN JOURNAL OF BOTANY Volume: 56 Issue: 3 Pages: 197-213

Published: **2008**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: A molecular perspective on terpene variation in Australian Myrtaceae

Author(s): Keszei A, Brubaker CL, Foley WJ

Source: AUSTRALIAN JOURNAL OF BOTANY Volume: 56 Issue: 3 Pages: 197-213

Published: **2008**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Terpenoid biomaterials

Author(s): Bohlmann J, Keeling CI

Source: PLANT JOURNAL Volume: 54 Issue: 4 Pages: 656-669

Published: **MAY 2008**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Regulation of isoprene emission in Populus trichocarpa leaves subjected to changing growth temperature

Author(s): Wiberley AE, Donohue AR, Meier ME, et al.

Source: PLANT CELL AND ENVIRONMENT Volume: 31 Issue: 2 Pages: 258-267

Published: **FEB 2008**

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Isoprene emission from plants: Why and how

Author(s): Sharkey TD, Wiberley AE, Donohue AR

Source: ANNALS OF BOTANY Volume: 101 Issue: 1 Pages: 5-18

Published: JAN 2008

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Identification of isopentenol biosynthetic genes from *Bacillus subtilis* by a screening method based on isoprenoid precursor toxicity

Author(s): Withers ST, Gottlieb SS, Lieu B, et al.

Source: APPLIED AND ENVIRONMENTAL MICROBIOLOGY Volume: 73

Issue: 19 Pages: 6277-6283

Published: OCT 2007

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Biomass in the manufacture of industrial products - the use of proteins and amino acids

Author(s): Scott E, Peter F, Sanders J

Source: APPLIED MICROBIOLOGY AND BIOTECHNOLOGY Volume: 75

Issue: 4 Pages: 751-762

Published: JUN 2007

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Transgenic, non-isoprene emitting poplars don't like it hot

Author(s): Behnke K, Ehling B, Teuber M, et al.

Source: PLANT JOURNAL Volume: 51 Issue: 3 Pages: 485-499

Published: AUG 2007

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Functional analysis of genes involved in the biosynthesis of isoprene in *Bacillus subtilis*

Author(s): Jelsing MK, Rijpkema M, Woerdenbag HJ, et al.

Source: APPLIED MICROBIOLOGY AND BIOTECHNOLOGY Volume: 75

Issue: 6 Pages: 1377-1384

Published: JUL 2007

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Arabidopsis, a model to study biological functions of isoprene emission?

Author(s): Loivamaki M, Gilmer F, Fischbach RJ, et al.

Source: PLANT PHYSIOLOGY Volume: 144 Issue: 2 Pages: 1066-1078
Published: JUN 2007

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Unusual features of a recombinant apple alpha-farnesene synthase

Author(s): Green S, Friel EN, Matich A, et al.

Source: PHYTOCHEMISTRY Volume: 68 Issue: 2 Pages: 176-188
Published: JAN 2007

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Circadian rhythms of isoprene biosynthesis in Grey poplar leaves

Author(s): Loivamaki M, Louis S, Cinege G, et al.

Source: PLANT PHYSIOLOGY Volume: 143 Issue: 1 Pages: 540-551
Published: JAN 2007

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Plant volatiles: Recent advances and future perspectives

Author(s): Dudareva N, Negre F, Nagegowda DA, et al.

Source: CRITICAL REVIEWS IN PLANT SCIENCES Volume: 25 Issue: 5
Pages: 417-440

Published: SEP-OCT 2006

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Biogenesis, molecular regulation and function of plant isoprenoids

Author(s): Bouvier F, Rahier A, Camara B

Source: PROGRESS IN LIPID RESEARCH Volume: 44 Issue: 6 Pages: 357-429

Published: NOV 2005

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Biochemical properties of isoprene synthase in poplar (Populus x canescens)

Author(s): Schnitzler JP, Zimmer I, Bachl A, et al.

Source: PLANTA Volume: 222 Issue: 5 Pages: 777-786

Published: NOV 2005

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Diurnal and seasonal variation of isoprene biosynthesis-related genes in Grey poplar leaves

Author(s): Mayrhofer S, Teuber M, Zimmer I, et al.

Source: PLANT PHYSIOLOGY Volume: 139 Issue: 1 Pages: 474-484

Published: SEP 2005

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Gene expression and characterization of isoprene synthase from *Populus alba*

Author(s): Sasaki K, Ohara K, Yazaki K

Source: FEBS LETTERS Volume: 579 Issue: 11 Pages: 2514-2518

Published: APR 25 2005

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Isolation and partial characterisation of a putative monoterpene synthase from *Melaleuca alternifolia*

Author(s): Shelton D, Zabaras D, Chohan S, et al.

Source: PLANT PHYSIOLOGY AND BIOCHEMISTRY Volume: 42 Issue: 11 Pages: 875-882

Published: DEC 2004

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Evolution of the isoprene biosynthetic pathway in Kudzu

Author(s): Sharkey TD, Yeh S, Wiberley AE, et al.

Source: PLANT PHYSIOLOGY Volume: 137 Issue: 2 Pages: 700-712

Published: FEB 2005

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Functional characterization of nine Norway spruce TPS genes and evolution of gymnosperm terpene synthases of the TPS-d subfamily

Author(s): Martin DM, Faldt J, Bohlmann J

Source: PLANT PHYSIOLOGY Volume: 135 Issue: 4 Pages: 1908-1927

Published: AUG 2004

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Rapid regulation of the methylerythritol 4-phosphate pathway during isoprene synthesis

Author(s): Wolfertz M, Sharkey TD, Boland W, et al.

Source: PLANT PHYSIOLOGY Volume: 135 Issue: 4 Pages: 1939-1945

Published: AUG 2004

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Herbivore-induced defense response in a model legume. Two-spotted spider mites induce emission of (E)-beta-ocimene and transcript accumulation of (E)-beta-ocimene synthase in Lotus japonicus

Author(s): Arimura G, Ozawa R, Kugimiya S, et al.

Source: PLANT PHYSIOLOGY Volume: 135 Issue: 4 Pages: 1976-1983

Published: AUG 2004

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Hybridization of European oaks (Quercus ilex x Q-robur) results in a mixed isoprenoid emitter type

Author(s): Schnitzler JP, Steinbrecher R, Zimmer I, et al.

Source: PLANT CELL AND ENVIRONMENT Volume: 27 Issue: 5 Pages: 585-593

Published: MAY 2004

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Induction of poplar leaf nitrate reductase: A test of extrachloroplastic control of isoprene emission rate

Author(s): Rosenstiel TN, Ebbets AL, Khatri WC, et al.

Source: PLANT BIOLOGY Volume: 6 Issue: 1 Pages: 12-21

Published: JAN-FEB 2004

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Forest tent caterpillars (Malacosoma disstria) induce local and systemic diurnal emissions of terpenoid volatiles in hybrid poplar (Populus trichocarpa x deltoides): cDNA cloning, functional characterization, and patterns of gene expression of (-)-germacrene D synthase, PtdTPS1

Author(s): Arimura G, Huber DPW, Bohlmann J

Source: PLANT JOURNAL Volume: 37 Issue: 4 Pages: 603-616

Published: FEB 2004

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Ecology and evolution of light-dependent and light-independent phytogetic volatile organic carbon

Author(s): Lerda M, Gray D

Source: NEW PHYTOLOGIST Volume: 157 Issue: 2 Pages: 199-211

Published: FEB 2003

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Relationship of isopentenyl diphosphate (IDP) isomerase activity to isoprene emission of oak leaves

Author(s): Bruggemann N, Schnitzler JP

Source: TREE PHYSIOLOGY Volume: 22 Issue: 14 Pages: 1011-1018

Published: OCT 2002

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Genomic analysis of the terpenoid synthase (AtTPS) gene family of Arabidopsis thaliana

Author(s): Aubourg S, Lecharny A, Bohlmann J

Source: MOLECULAR GENETICS AND GENOMICS Volume: 267 Issue: 6

Pages: 730-745

Published: AUG 2002

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Plant odyssey - Volatile substances

Author(s): Pichersky E, Gersherzon J

Source: BIOFUTUR Issue: 224 Pages: 22-26

Published: JUL-AUG 2002

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Diurnal variation of dimethylallyl diphosphate concentrations in oak (Quercus robur) leaves

Author(s): Bruggemann N, Schnitzler JP

Source: PHYSIOLOGIA PLANTARUM Volume: 115 Issue: 2 Pages: 190-196

Published: JUN 2002

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Isoprene synthase activity parallels fluctuations of isoprene release during growth of Bacillus subtilis

Author(s): Sivy TL, Shirk MC, Fall R

Source: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS Volume: 294 Issue: 1 Pages: 71-75

Published: MAY 31 2002

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Emission of biogenic volatile organic compounds: An overview of field, laboratory and modelling studies performed during the 'Tropospheric Research Program' (TFS) 1997-2000

Author(s): Schnitzler JP, Bauknecht N, Bruggemann N, et al.

**Source: JOURNAL OF ATMOSPHERIC CHEMISTRY Volume: 42 Issue: 1
Pages: 159-177**

Published: MAY-JUL 2002

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: The formation and function of plant volatiles: perfumes for pollinator attraction and defense

Author(s): Pichersky E, Gershenzon J

**Source: CURRENT OPINION IN PLANT BIOLOGY Volume: 5 Issue: 3
Pages: 237-243**

Published: JUN 2002

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Is competence for isoprene emission related to the mode of phloem loading?

Author(s): Kerstiens G, Possell M

Source: NEW PHYTOLOGIST Volume: 152 Issue: 3 Pages: 368-372
Published: DEC 2001

Cited References:

... MILLER B, 2001, V213, P483, PLANTA

Title: Isolation and functional analysis of a cDNA encoding a myrcene synthase from holm oak (Quercus ilex L.)

Author(s): Fischbach RJ, Zimmer W, Schnitzler JP

**Source: EUROPEAN JOURNAL OF BIOCHEMISTRY Volume: 268 Issue: 21
Pages: 5633-5638**

Published: NOV 2001

Cited References:

... MILLER B, 2001, V213, P483, PLANTA