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Matthew A. Kellett, Ph.D.

June 10, 2002

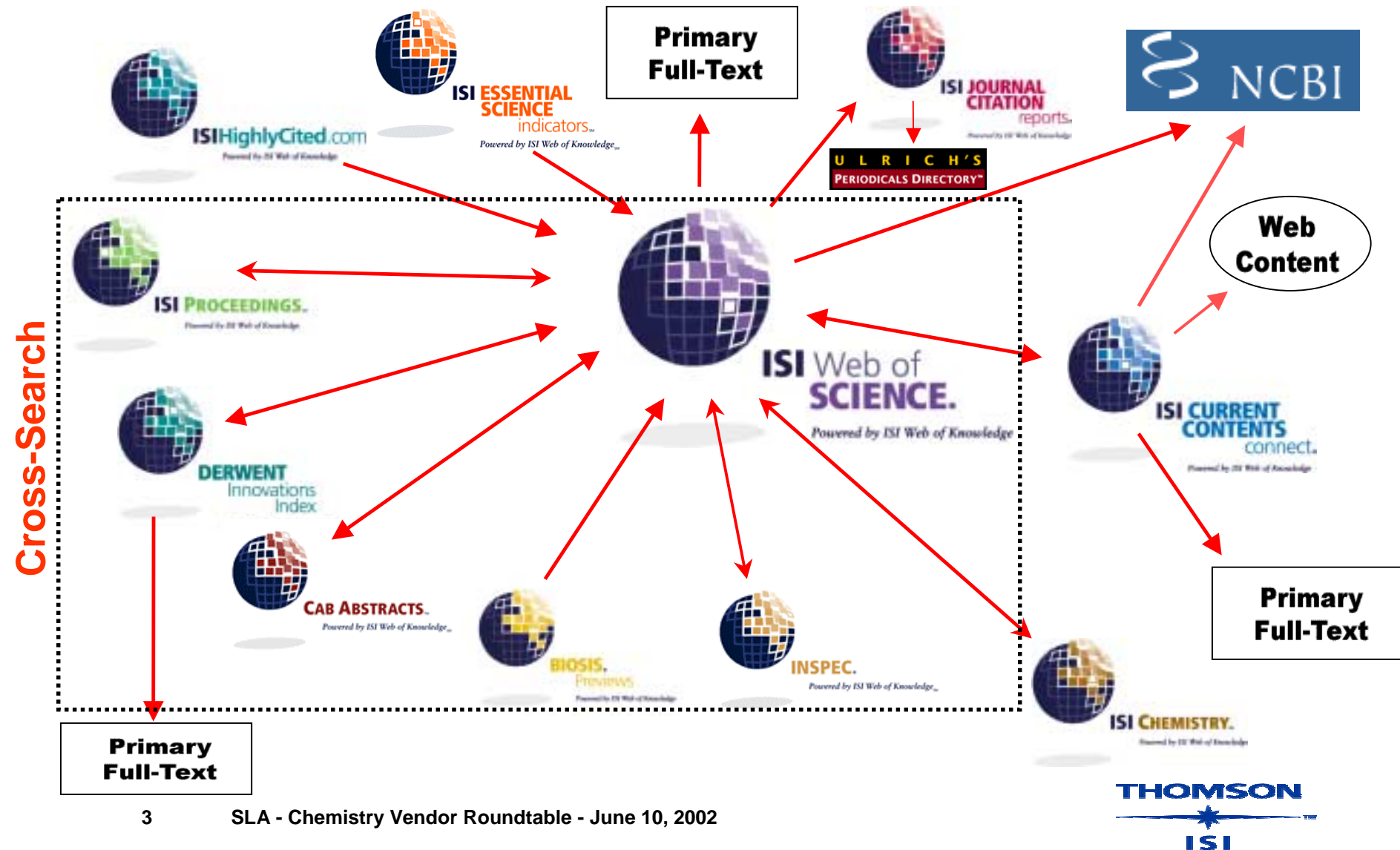
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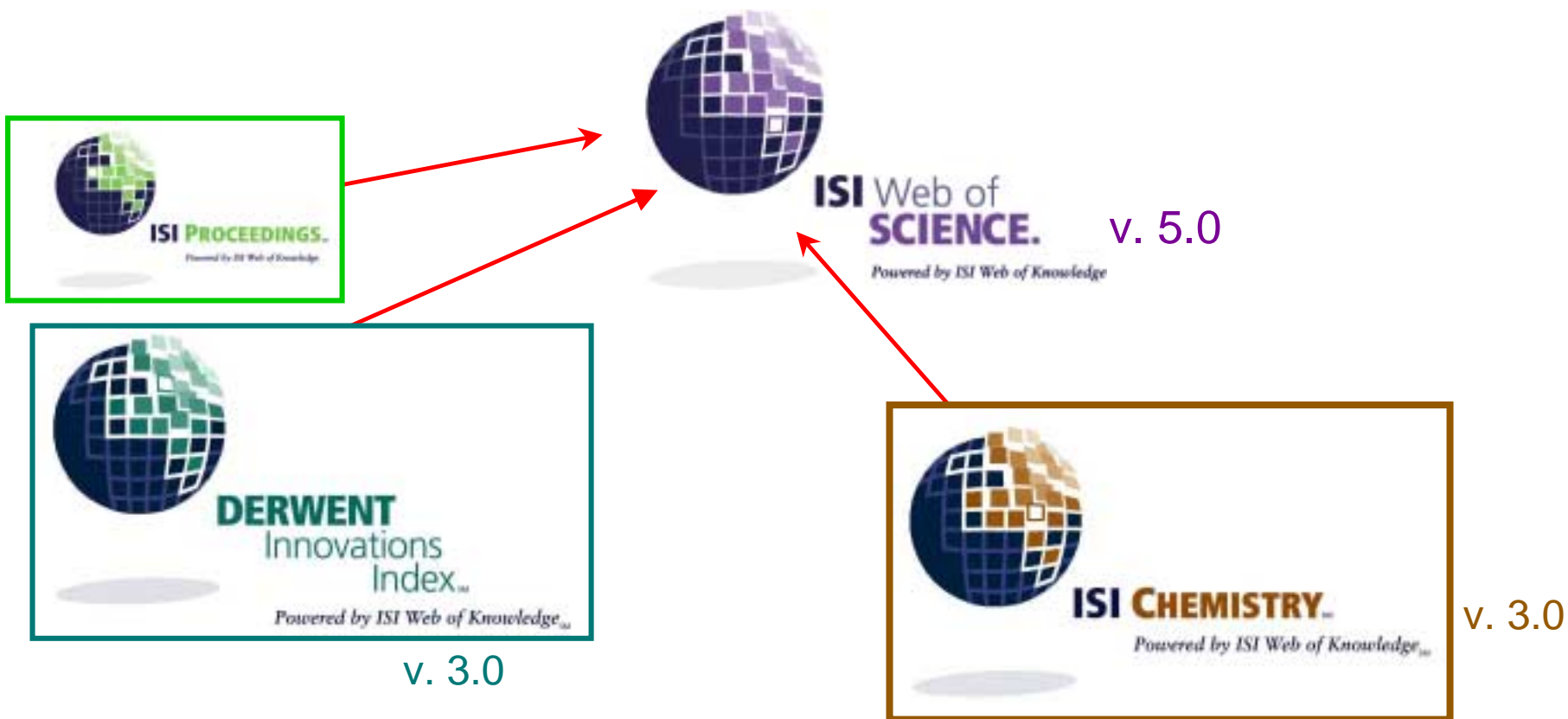
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Arseniyadis, S, Ignacio, J, Hernando, M, et al.

A concise preparation of an appropriately functionalized B-seco taxane derivative

SYNLETT (9): 1010-+ 1998

matching: deriv synthesi taxoid taxol

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New transacylase enzymes, useful for the high yield production of Taxol(TM), related taxoids and useful intermediates in the in the paclitaxel biosynthetic pathway

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CROTEAU R B, SCHOENDORF A, WALKER K D, et al.

matching: synthesi taxoid taxol

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GueritteVoegelein, F, Guenard, D, Potier, P, et al.

Antitumor taxoids

MEDICINAL CHEMISTRY: TODAY AND TOMORROW 1-6 1997

matching: synthesi taxoid taxol

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A concise preparation of an appropriately functionalized B-seco taxane derivative
Arseniyadis S, Ignacio J, Hernando M, del Moral JQ, Yashunsky DV, Potier P
SYNLETT
(9): 1010-+ SEP 1998

Document type: Article Language: English [Cited References: 15](#) [Times Cited: 6](#)

Abstract:
A successful route to a B-seco taxoid framework of type 2, which may be further manipulated in the expedient synthesis of taxoid ABC-core using standard synthetic procedures is described.

Author Keywords:
B-seco taxanes, organostannanes, kinetic discrimination

KeyWords Plus:
TAXOL, CARBANIONS, REAGENTS

Addresses:
Arseniyadis S, CNRS, Inst Chim Subst Nat, F-91198 Gif Sur Yvette, France
CNRS, Inst Chim Subst Nat, F-91198 Gif Sur Yvette, France

Publisher:
GEORG THIEME VERLAG, STUTTGART

IDS Number:
124GA

ISSN:
0936-5214

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Citing Patents: 0

Articles Cited by Inventor: 0
[Articles Cited by Examiner: 8](#)

Patent Number(s):

WO200123586-A2 ; AU200077424-A; US6287835-B1

Title:

New transacylase enzymes, useful for the high yield production of Taxol(TM), related taxoids and useful intermediates in the in the paclitaxel biosynthetic pathway

Inventor Name(s):

CROTEAU R B, WALKER K D, SCHOENDORF A, WILDUNG M R

Patent Assignee Name(s) and Code(s):

UNIV WASHINGTON STATE RES FOUND (UNIW)

Derwent Primary Accession Number:

2001-245004 [25]

Abstract:

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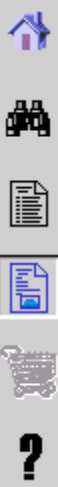
US4683195

Biblio Desc Claims Page 1 Drawing



5 pages

Inventor: ARNH
Patent: CETUS
HOFFM
HOFFM
Derwent: 1986-3



Process for amplifying, detecting, and/or-cloning nucleic acid sequences

Patent Number: US4683195
 Publication date: 1987-07-28
 Inventor(s): MULLIS KARY B (US); ARNHEIM NORMAN (US); ERLICH HENRY A (US); HORN GLENN T (US); SAIKI RANDALL K (US); SCHARF STEPHEN J (US)
 Applicant(s): CETUS CORP (US)
 Requested Patent: [US4683195](#)
 Application Number: US19860828144 19860207
 Priority Number(s): US19860828144 19860207; US19860824044 19860130
 IPC Classification: -

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Articles

[New transacylase enzymes, useful for the high yield paclitaxel biosynthetic pathway](#)

UNIV WASHINGTON STATE RES FOUND (UNIW) CROTEAU RB, SCHOENDORF A, WALKER KD,

Purification and characterization of acetyl coenzyme A: 10-hydroxytaxane O-acetyltransferase from cell suspension cultures of *Taxus chinensis*

Menhard B, Zenk MH
PHYTOCHEMISTRY
50 (5): 763-774 MAR 1999

Document type: Article Language: English Cited References: 15 Times Cited: 6

Abstract:

An O-acetyltransferase that catalyzes the regiospecific acetylation of a range of taxanes possessing an unsubstituted 10-hydroxyl group was detected and purified to apparent electrophoretic homogeneity from a cytosolic fraction of *Taxus chinensis* cell cultures. The purification involved negative calcium phosphate adsorption, sephadex desalting, DEAE, AcA44 chromatography, HighQ, CHT II, HiTrap Blue, Phenylsepharose and Mimetic Green purification steps. The purified acetyltransferase was found to be a monomeric protein of 71 +/- 1.5 kDa that is highly regio- and stereospecific towards the 10 beta-hydroxyl group of the taxane molecule and is also active towards 10-desacetyl/baccatine III. The acetyltransferase reaction had a pH optimum of 9.0 with halfmaximal activities at pH 6.8 and 10.8, respectively. The temperature optimum was at 35 degrees C and the isoelectric point at 5.6. The apparent K-m values for 10-desacetyltaxuyunnanine C and acetyl CoA were 23 and 61 mu M, respectively. The turnover rate for the enzyme using both substrates was 0.2 mol mol(-1) of enzyme. The kinetic optimum was determined to be K-cat/K-m = 8.7 s(-1) L M-1. (C) 1999 Elsevier Science Ltd. All rights reserved.

Author Keywords:

Taxus chinensis, O-acetyltransferase, cell culture, 10-desacetyltaxuyunnanine C, 10-desacetyl/baccatine III

KeyWords Plus:

TAXOL BIOSYNTHESIS, COMMITTED STEP, TAXADIENE SYNTHASE, PACIFIC YEW, TAXA-4(5),11(12)-DIENE, BREVIFOLIA, CATALYZES

Addresses:

Zenk MH, Univ Munich, Lehrstuhl Pharmazeut Biol, Karlstr 29, D-80333 Munich, Germany
Univ Munich, Lehrstuhl Pharmazeut Biol, D-80333 Munich, Germany

Publisher:

PERGAMON-ELSEVIER SCIENCE LTD, OXFORD

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ISSN:

0031-9422

CITING PATENT	CATEGORY CODE	
US6287835-B1		Walker e Taxa-4(2) Step of T 273-279.
		Zocher e Baccatin Research
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		Menhard 10-hydro chinensis
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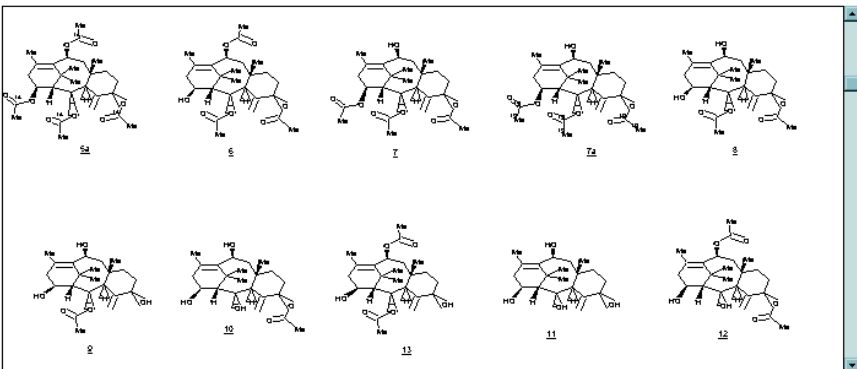
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Title: Purification and characterization of acetyl coenzyme A: 10-hydroxytaxane O-acetyltransferase from cell suspension cultures of *Taxus chinensis*.

Author(s): Menhard B; Zenk MH

Source: PHYTOCHEMISTRY 50(5), 763-774, 1999



Abstract: An O-acetyltransferase that catalyzes the regio-specific acetylation of a range of taxanes possessing an unsubstituted 10-hydroxyl group was detected and purified to apparent electrophoretic homogeneity from a cytosolic fraction of *Taxus chinensis* cell cultures. The purification involved negative calcium phosphate adsorption, sephadex desalting, DEAE, AcA44 chromatography, HighQ, CHT II, HiTrap Blue, Phenylsepharose and Mimetic Green purification steps. The purified acetyltransferase was found to be a monomeric protein of 71 +/- 1.5 kDa that is highly regio- and stereospecific towards the 10 beta-hydroxyl group of the taxane molecule and is also active towards 10-desacetylbaccatine III. The acetyltransferase reaction had a pH optimum of 9.0 with halfmaximal activities at pH 6.8 and 10.8, respectively. The temperature optimum was at 35 degrees C and the isoelectric point at 5.6. The apparent K-m values for 10-desacetyltaxuyunnanine C and acetyl CoA were 23 and 61 mu M, respectively. The turnover rate for the enzyme using both substrates was 0.2 mol mol(-1) of enzyme. The kinetic optimum was determined to be K-cat/K-m = 8.7 s(-1) L M-1. (C) 1999 Elsevier Science Ltd. All rights reserved.

Author Keyword: TAXUS CHINENSIS; O-ACETYLTRANSFERASE; CELL CULTURE; 10-DESACETYLTAXUYUNNANINE C; 10-DESACETYLBACCATINE III

KeyWords Plus: TAXOL BIOSYNTHESIS; COMMITTED STEP; TAXADIENE SYNTHASE; PACIFIC YEW; TAXA-4(5),11(12)-DIENE; BREVIFOLIA; CATALYZES

Document type: ARTICLE

Language: ENGLISH

Addresses: UNIV MUNICH, LEHRSTUHL PHARMAZEUT BIOL, KARLSTR 29, D-80333 MUNICH, GERMANY
UNIV MUNICH, LEHRSTUHL PHARMAZEUT BIOL, D-80333 MUNICH, GERMANY

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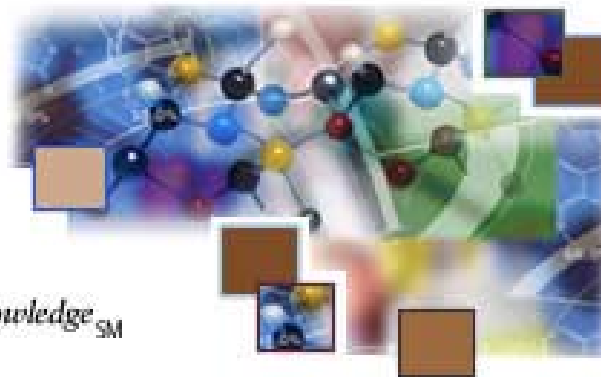
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Author(s): Kao CL, Chern JN
Source: TETRAHEDRON LETTERS 42(6), 1111-1113, 2001

Abstract: A convenient method for the synthesis of alanthoidol starting from vanillin is provided using trimethylsilyldiazomethane lithium salt to generate a diphenylacetylene and subsequent oxymercuration cyclization of the resulting alkyne with mercury acetate in acetic acid as key steps. (C) 2001 Elsevier Science Ltd. All rights reserved.

Author Keyword: AILANTHOIDOL, BENZOFURAN, TRIMETHYLSILYLDIAZOMETHANE LITHIUM SALT, OXYMERCURATION

KeyWords Plus: FLAXSEED; LIGNANS; TRIMETHYLSILYLDIAZOMETHANE; CARCINOGENESIS; CYCLOLIGNANS; NEOLIGNAN

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Language: ENGLISH
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Corey EJ, Grogan MJ
[Enantioselective synthesis of alpha-amino nitriles from N-benzhydryl imines and HCN with a chiral bicyclic guanidine as catalyst](#)
ORGANIC LETTERS 1(1), 157-160, 1999

Martinez EJ, Corey EJ
[Enantioselective synthesis of saframycin A and evaluation of arbidol activity relative to ecteinascidin/saframycin hybrids](#)
ORGANIC LETTERS 1(1), 75-77, 1999

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Arseniyadis, S, Ignacio, J, Hernando, M, et al.

A concise preparation of an appropriately functionalized B-seco taxane derivative

SYNLETT (9): 1010-+ 1998

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New transacylase enzymes, useful for the high yield production of Taxol(TM), related taxoids and useful intermediates in the in the paclitaxel biosynthetic pathway

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CROTEAU R B, SCHOENDORF A, WALKER K D, et al.

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Femtochemistry. Past, present, and future
Zewail AH
PURE AND APPLIED CHEMISTRY
72 (12): 2219-2231 DEC 2000

Document type: Article **Language:** English

Conference Information:
15th International Conference on **Physical Organic** Chemistry (ICPOC 15)
GOTHENBURG, **SWEDEN**, JUL 08-13, 2000

Abstract:

This review highlights, with a historical perspective, the scope of applications in present-day femtobiology.

Addresses:
Zewail, AH, CALTECH, Arthur Amos Noyes Lab Chem Phys, Pasadena, CA 91125 USA

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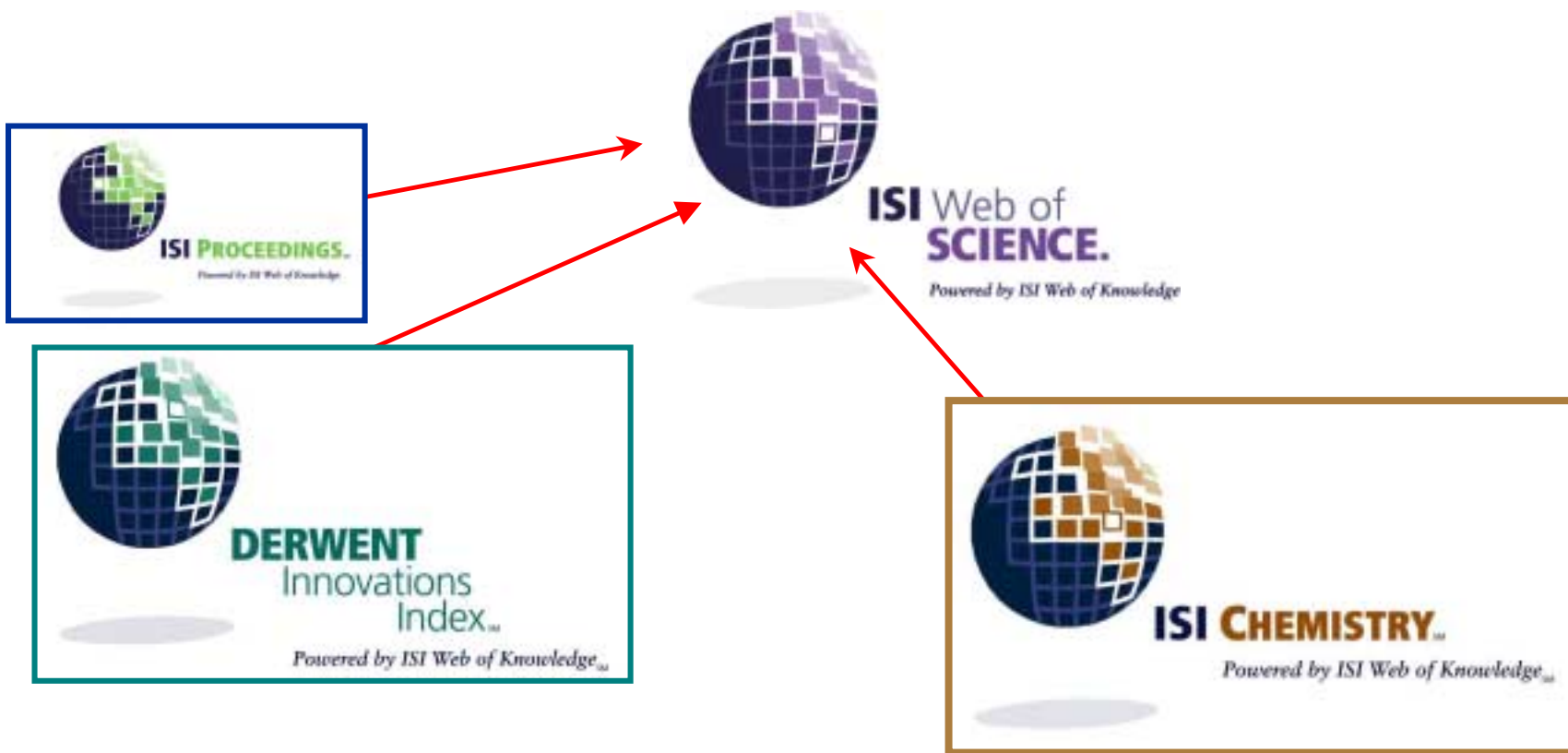
Facility for Breeding, Housing, and Handling Virus Infected Mice, Genetically Manipulated Mice and Chimeric Mice
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