



European Patent  
Office

**SUPPLEMENTARY  
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 45 of the European Patent Convention EP 01 94 1662 shall be considered, for the purposes of subsequent proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 840 918 A (M.D. LEWIS ET AL.) 24 November 1998 (1998-11-24) * column 0; claims; example 39 * -----	1,2,18, 22,24,34	INV. C07D307/32 A61K39/40 C07D305/12
X	WO 99/27786 A (UNIVERSITY OF NOTTINGHAM) 10 June 1999 (1999-06-10) * the whole document * -----	1,2,18, 22,24,34	C07K16/00 C12Q1/00 G01N33/53 G01N33/543
X	WO 98/58075 A (MONTANA STATE UNIVERSITY) 23 December 1998 (1998-12-23) * claims * -----	1,2,18, 22,24,34	A61K31/365 A61P37/06
X	WO 95/01175 A (UNIVERSITY OF NOTTINGHAM) 12 January 1995 (1995-01-12) * the whole document * -----	1,2,18, 22,24,34	
X	US 6 057 288 A (J. PEARSON ET AL.) 2 May 2000 (2000-05-02) * column 1 - column 5 * -----	1,2,18, 34,44,56	
-/--			TECHNICAL FIELDS SEARCHED (IPC)
			C07D A61K A61P
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
<b>INCOMPLETE SEARCH</b>			
The Search Division considers that the present application, or some or all of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for the following claims:			
Claims searched completely :			
Claims searched incompletely :			
Claims not searched :			
Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
The Hague		27 March 2007	Francois, Jean
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

EPO FORM 1503 03.02 (P04C20)



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	J. LITHGOW ET AL.: "the regulatory locus cinRI in Rhizobium leguminosarum" MOLECULAR MICROBIOLOGY, vol. 37, no. 1, 2000, pages 81-97, XP002426948 gb * page 81 - page 84 *	1,2,18, 34	
X	JUN ZHU ET AL.: "analogs of the autoinducer 3-oxooctanoyl-homoserine lactone strongly inhibit activity of the TraR protein." JOURNAL OF BACTERIOLOGY, vol. 180, no. 20, October 1998 (1998-10), pages 5398-5405, XP000884118 us * page 5398 - page 5401; figure 1 *	1,2,18, 22,24,34	TECHNICAL FIELDS SEARCHED (IPC)
X	JIE-GANG CAO ET AL.: "the lux autoinducer-receptor interaction in vibrio harveyi:" BIOCHEMICAL JOURNAL, vol. 312, no. 2, 1995, pages 439-444, XP002426949 gb * page 439 *	1,2,18, 22,24,34	
E	WO 01/74801 A (UNIVERSITY OF NOTTINGHAM) 11 October 2001 (2001-10-11) * the whole document *	1-34	



Claim(s) searched completely:

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Claim(s) searched incompletely:

1-61

Claim(s) not searched:

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Reason for the limitation of the search:

The present claims 1-61 relate to an extremely large number of possible compounds/methods. Support and disclosure in the sense of Article 84 and 83 EPC is to be found however for only a very small proportion of the compounds/methods claimed, see examples, scheme 1. The non-compliance with the substantive provisions is to such an extent, that a meaningful search of the whole claimed subject-matter of the claim could not be carried out (Rule 45 EPC and Guidelines B-VIII, 3). The extent of the search was consequently limited.

The search of claims 1-61 was restricted to those claimed compounds/methods which appear to be supported and a generalisation of their structural formulae I, II, VI, IX, X, formula of claim 18, wherein R2 is an alkyl group terminally substituted by an acidic group, amido group, halogen, OH, NH2, SH, OR3, NHR4 was taken into consideration (the alkyl group may be branched, unsaturated and further substituted).



### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-61



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-61

compounds of formula (I),(II),(VI), their pharmaceutical uses,autoinducer molecules of formulas (IX),(X) and immunogenic conjugates containing them.

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2. claims: 62-76

general method of detecting and isolating an autoinducer in a sample.

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 94 1662

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

27-03-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5840918 A	24-11-1998	AU 2122795 A	03-10-1995
		CA 2185441 A1	21-09-1995
		CN 1151156 A	04-06-1997
		EP 0750609 A1	02-01-1997
		FI 963597 A	14-11-1996
		HU 77406 A2	28-04-1998
		JP 10500666 T	20-01-1998
		NO 963860 A	13-11-1996
WO 9525086 A1	21-09-1995		
-----	-----	-----	-----
WO 9927786 A	10-06-1999	AU 1252499 A	16-06-1999
-----	-----	-----	-----
WO 9858075 A	23-12-1998	AT 342661 T	15-11-2006
		AU 7977698 A	04-01-1999
		AU 8258998 A	04-01-1999
		EP 0994961 A2	26-04-2000
		WO 9857618 A1	23-12-1998
-----	-----	-----	-----
WO 9501175 A	12-01-1995	AT 184194 T	15-09-1999
		AU 7077894 A	24-01-1995
		CA 2166289 A1	12-01-1995
		DE 69420564 D1	14-10-1999
		DE 69420564 T2	04-05-2000
		DK 706393 T3	03-04-2000
		ES 2139079 T3	01-02-2000
		JP 3434824 B2	11-08-2003
		JP 8512048 T	17-12-1996
		US 5969158 A	19-10-1999
		US 5776974 A	07-07-1998
-----	-----	-----	-----
US 6057288 A	02-05-2000	US 5591872 A	07-01-1997
-----	-----	-----	-----
WO 0174801 A	11-10-2001	AU 4850401 A	15-10-2001
		EP 1268459 A1	02-01-2003
		US 2003171371 A1	11-09-2003
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