



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
P,X	MAKINO MASATO ET AL: "p53 as an indicator of lymph node metastases in invasive early colorectal cancer" ANTICANCER RESEARCH, vol. 20, no. 3B, May 2000 (2000-05), pages 2055-2060, XP008046541 ISSN: 0250-7005 * the whole document *	1-20, 34-38	C12Q1/68
X	WILTZ O ET AL: "EXPRESSION OF ENZYMATICALLY ACTIVE SUCRASE ISOMALTASE IS A UBIQUITOUS PROPERTY OF COLON ADENOCARCINOMAS" GASTROENTEROLOGY, vol. 100, no. 5 PART 1, 1991, pages 1266-1278, XP008046527 ISSN: 0016-5085 * the whole document *	1-20,33	
Y		34-38	
X	LISE M ET AL: "Association between sucrase-isomaltase and p53 expression in colorectal cancer." ANNALS OF SURGICAL ONCOLOGY : THE OFFICIAL JOURNAL OF THE SOCIETY OF SURGICAL ONCOLOGY. MAR 1997, vol. 4, no. 2, March 1997 (1997-03), pages 176-183, XP008046558 ISSN: 1068-9265 * the whole document *	21,24	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
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X	ZWEIBAUM A ET AL: "SUCRASE ISO MALTASE A MARKER OF FETAL AND MALIGNANT EPITHELIAL CELLS OF THE HUMAN COLON" INTERNATIONAL JOURNAL OF CANCER, vol. 32, no. 4, 1983, pages 407-412, XP008046567 ISSN: 0020-7136 * the whole document *	21,24	
-/--			
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 29 July 2005	Examiner Helliot, B
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			



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)				
X	JESSUP J M ET AL: "Sucrase-isomaltase is an independent prognostic marker for colorectal carcinoma." DISEASES OF THE COLON AND RECTUM. DEC 1995, vol. 38, no. 12, December 1995 (1995-12), pages 1257-1264, XP008046582 ISSN: 0012-3706 * the whole document *	21,24					
X	MALLO GUSTAVO VIDAL ET AL: "Expression of the Cdx1 and Cdx2 homeotic genes leads to reduced malignancy in colon cancer-derived cells" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 273, no. 22, 29 May 1998 (1998-05-29), pages 14030-14036, XP002338465 ISSN: 0021-9258 * the whole document *	1-24					
X	MALLO G V ET AL: "MOLECULAR CLONING, SEQUENCING AND EXPRESSION OF THE MRNA ENCODING HUMAN CDX1 AND CDX2 HOMEBOX. DOWN-REGULATION OF CDX1 AND CDX2 MRNA EXPRESSION DURING COLORECTAL CARCINOGENESIS" INTERNATIONAL JOURNAL OF CANCER, NEW YORK, NY, US, vol. 74, no. 1, 20 February 1997 (1997-02-20), pages 35-44, XP000946393 ISSN: 0020-7136 * page 37, paragraph 1 * * abstract *	1,2, 9-12,19, 20	TECHNICAL FIELDS SEARCHED (Int.CI.7)				
The supplementary search report has been based on the last set of claims valid and available at the start of the search.							
Place of search Munich		Date of completion of the search 29 July 2005	Examiner Helliot, B				
<table border="0"><tr><td>CATEGORY OF CITED DOCUMENTS</td><td>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</td></tr><tr><td>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</td><td></td></tr></table>				CATEGORY OF CITED DOCUMENTS	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	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	
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D,Y	US 5 518 888 A (WALDMAN ET AL) 21 May 1996 (1996-05-21) * abstract *	34-38	
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D,A	US 5 601 990 A (WALDMAN ET AL) 11 February 1997 (1997-02-11) * the whole document *	1-20, 33-38	
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The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 29 July 2005	Examiner Helliot, B
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			

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

EP 01 92 2785

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.

29-07-2005

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29-07-2005

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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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:
- 1-24 (partially), 33-38 (partially)
- ☐ 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:



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: 1-24, 33-38 (all partially)

An in vitro method of screening an individual for metastatic colorectal cancer cells comprising the steps of examining a sample of extraintestinal tissue and/or body fluid from an individual to determine whether SI is being expressed by cells or whether SI gene transcription or translation product is present in said sample.

An in vitro method for confirming that a tumor cell removed from a patient suspected of having colorectal cancer cells is a colorectal tumor cell, comprising the step of determining whether a tumor cell expresses SI.

A kit for diagnosing an individual who has colorectal cancer.

A method of treating an individual suspected of suffering from metastasized colorectal cancer comprising the step of administering a therapeutically effective amount of a composition comprising an SI ligand.

A method of radioimaging metastasized colorectal cancer cells comprising the steps of administering to an individual a composition comprising an SI ligand linked to a detectable agent.

2. claims: 1-24 (partially), 25-28 (totally), 34-38 (partially)

An in vitro method of screening an individual for primary and/or metastatic stomach cancer cells comprising the steps of examining a sample of extraintestinal tissue and/or body fluid from an individual to determine whether SI is being expressed by cells or whether SI gene transcription or translation product is present in said sample.

An in vitro method for confirming that a tumor cell removed from a patient suspected of having stomach cancer cells is a stomach tumor cell, comprising the step of determining whether a tumor cell expresses SI.

A method of diagnosing an individual who has stomach cancer comprising the steps of examining a sample of stomach tissue to detect the presence of SI transcript or translation product.

A kit for diagnosing an individual who has stomach cancer.

A method of treating an individual suspected of suffering from primary and/or metastatic stomach cancer comprising the step of administering a therapeutically effective amount of a composition comprising an SI ligand.

A method of radioimaging primary and/or metastatic stomach cancer cells comprising the steps of administering to an individual a composition comprising an SI ligand linked to a detectable agent.



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:

3. claims: 1-24 (partially), 29-32 (totally), 34-38 (partially)

An in vitro method of screening an individual for primary and/or metastatic esophageal cancer cells comprising the steps of examining a sample of extraintestinal tissue and/or body fluid from an individual to determine whether SI is being expressed by cells or whether SI gene transcription or translation product is present in said sample.

An in vitro method for confirming that a tumor cell removed from a patient suspected of having esophageal cancer cells is a esophageal tumor cell, comprising the step of determining whether a tumor cell expresses SI.

A method of diagnosing an individual who has esophageal cancer comprising the steps of examining a sample of stomach tissue to detect the presence of SI transcript or translation product.

A kit for diagnosing an individual who has esophageal cancer.

A method of treating an individual suspected of suffering from primary and/or metastatic esophageal cancer comprising the step of administering a therapeutically effective amount of a composition comprising an SI ligand.

A method of radioimaging primary and/or metastatic esophageal cancer cells comprising the steps of administering to an individual a composition comprising an SI ligand linked to a detectable agent.

4. claims: 1-24 (all partially)

An in vitro method of screening an individual for metastatic colorectal cancer cells or primary and/or metastatic stomach or esophageal cancer cells comprising the steps of examining a sample of extraintestinal tissue and/or body fluid from an individual to determine whether CDX1 is being expressed by cells or whether CDX1 gene transcription or translation product is present in said sample.

An in vitro method for confirming that a tumor cell removed from a patient suspected of having colorectal, stomach or esophageal cancer cells is a colorectal, stomach or esophageal tumor cell, comprising the step of determining whether a tumor cell expresses CDX1.

5. claims: 1-24 (all partially)



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:

An in vitro method of screening an individual for metastatic colorectal cancer cells or primary and/or metastatic stomach or esophageal cancer cells comprising the steps of examining a sample of extraintestinal tissue and/or body fluid from an individual to determine whether CDX2 is being expressed by cells or whether CDX2 gene transcription or translation product is present in said sample.

An in vitro method for confirming that a tumor cell removed from a patient suspected of having colorectal, stomach or esophageal cancer cells is a colorectal, stomach or esophageal tumor cell, comprising the step of determining whether a tumor cell expresses CDX2.

6. claims: 39-53

A method for identifying a molecular marker useful for detecting tumor cells metastasized from an origin tissue to a destination tissue or fluid.

专利名称(译)	用于鉴定和靶向癌细胞的组合物和方法		
公开(公告)号	EP1274861A4	公开(公告)日	2005-09-28
申请号	EP2001922785	申请日	2001-03-27
[标]申请(专利权)人(译)	托马斯杰弗逊大学		
申请(专利权)人(译)	托马斯杰弗逊大学		
当前申请(专利权)人(译)	托马斯杰弗逊大学		
[标]发明人	WALDMAN SCOTT A PARK JASON SCHULZ STEPHANIE		
发明人	WALDMAN, SCOTT, A. PARK, JASON SCHULZ, STEPHANIE		
IPC分类号	G01N33/53 A61K31/196 A61K31/407 A61K31/4164 A61K31/475 A61K31/513 A61K31/519 A61K31/7034 A61K31/704 A61K31/7048 A61K31/7068 A61K31/711 A61K33/24 A61K38/00 A61K38/43 A61K38/46 A61K39/00 A61K45/00 A61K47/48 A61K48/00 A61K51/00 A61P1/00 A61P35/00 A61P35/04 C12N15/09 C12Q1/02 C12Q1/48 C12Q1/6886 G01N33/566 G01N33/574 C12Q1/68		
CPC分类号	A61K31/7034 A61K31/7048 A61P1/00 A61P35/00 A61P35/04 A61P37/04 A61K47/6871 C12Q1/6886 C12Q2600/158 G01N33/57407 G01N33/57419 G01N33/57446 A61K9/127 A61K39/0011 A61K39/001102 A61K51/1075 C07K16/3046 C07K16/40 C12N15/113 G01N2333/988		
优先权	60/192229 2000-03-27 US		
其他公开文献	EP1274861B1 EP1274861A1		
外部链接	Espacenet		

摘要(译)

公开了用于原发性和/或转移性胃癌或食道癌的筛选和诊断试剂，试剂盒和方法。公开了用于成像和治疗原发性和/或转移性胃癌或食道癌的组合物和方法。公开了用于治疗 and 预防原发性和/或转移性胃癌或食道癌的疫苗组合物和方法。

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T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date C: document cited in the application S: document cited for other reasons A: member of the same patent family, corresponding document			