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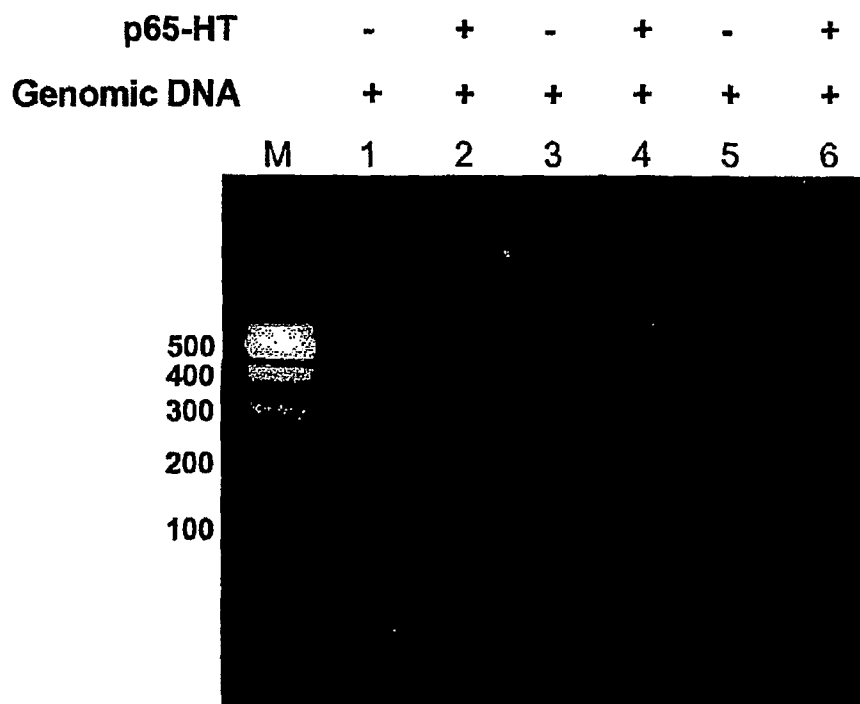
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

- (88) Date of publication of the international search report:
15 November 2007

- (15) Information about Correction:

[Continued on next page]

- (54) Title: COMPOSITIONS AND METHODS FOR CAPTURING AND ANALYZING CROSS-LINKED BIOMOLECULES



- (57) Abstract: Methods, compositions and kits to capture cross-linked protein complexes to a support matrix in a stable, covalent bridge of attachment are provided.

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Previous Correction:

see PCT Gazette No. 40/2007 of 4 October 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/003416

A. CLASSIFICATION OF SUBJECT MATTER
 INV. G01N33/543 G01N33/53

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/272114 A1 (DARZINS ALDIS [US] ET AL) 8 December 2005 (2005-12-08) the whole document paragraphs [0007], [0022], [0231], [0232], [0247] claim 1	1-11
X	US 5 476 770 A (PRADELLES PHILIPPE [FR]) 19 December 1995 (1995-12-19) the whole document figure 1 column 2, line 39 - line 50	1-11
A	US 2005/095651 A1 (CAMARERO JULIO A [US] ET AL) 5 May 2005 (2005-05-05) the whole document figure 1	1-11
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

4 July 2007

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14/09/2007

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/003416

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KWON Y ET AL: "ANTIBODY ARRAYS PREPARED BY CUTINASE-MEDIATED IMMOBILIZATION ON SELF-ASSEMBLED MONOLAYERS" ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. COLUMBUS, US, vol. 76, no. 19, 1 October 2004 (2004-10-01), pages 5713-5720, XP001209665 ISSN: 0003-2700 the whole document figure 3 -----	1-11
A	HODNELAND CHRISTIAN D ET AL: "Selective immobilization of proteins to self-assembled monolayers presenting active site-directed capture ligands" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 99, no. 8, 16 April 2002 (2002-04-16), pages 5048-5052, XP002252376 ISSN: 0027-8424 cited in the application the whole document -----	11

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/003416

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11

Method according to independent claim 1 (1. complex formation, 2. cross-linking, 3. binding to matrix).

2. claims: 12-22

Method according to independent claim 12 (1. complex formation, 2. binding to matrix, 3. cross-linking).

3. claims: 23-33

Method according to independent claim 23 (1. binding to matrix, 2. complex formation, 3) cross-linking).

4. claims: 34-36

Method according to independent claim 34 (same as invention 1 except that method involves protein-protein interactions plus reversible cross-linking).

5. claims: 37-41

Method according to independent claim 37 (same as invention 1 except target is a nucleic acid).

6. claims: 42-46

Method according to independent claim 42 involving immobilisation using a mutant dehalogenase/substrate interaction.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/003416

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005272114	A1	08-12-2005	NONE
US 5476770	A	19-12-1995	CA 2113383 A1 29-07-1994
		DE 69418501 D1	24-06-1999
		DE 69418501 T2	16-12-1999
		EP 0609144 A1	03-08-1994
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		JP 3310090 B2	29-07-2002
		JP 6273416 A	30-09-1994
US 2005095651	A1	05-05-2005	NONE