

# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number  
EP 15 80 9520

| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | JP 2013 085542 A (SYSMEX CORP)<br>13 May 2013 (2013-05-13)<br>* claims 1, 9, 11 *                                                                                                                                                                                                                                                                                                                                            | 13-15                                               | INV.<br>C12Q1/68<br>G01N33/53<br>G01N37/00 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     | TECHNICAL FIELDS<br>SEARCHED (IPC)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     | C12Q                                       |
| 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<br>The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                              | Date of completion of the search<br>6 December 2017 | Examiner<br>Santagati, Fabio               |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |                                            |

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EPO FORM 1503 03.82 (P04N04)

# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number  
EP 15 80 9520

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                           |                                                     |                                         |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------|---------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Citation of document with indication, where appropriate, of relevant passages                                                                                                                                                                                             | Relevant to claim                                   | CLASSIFICATION OF THE APPLICATION (IPC) |                                 |
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| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WO 2009/108853 A1 (UNIV OHIO STATE RES FOUND [US]; CROCE CARLO M [US]; PETROCCA FABIO [US]) 3 September 2009 (2009-09-03)<br>* the whole document *                                                                                                                       | 1-15                                                |                                         | TECHNICAL FIELDS SEARCHED (IPC) |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WO 2007/081740 A2 (UNIV OHIO STATE RES FOUND [US]; CROCE CARLO M [US]; CALIN GEORGE A [US]) 19 July 2007 (2007-07-19)<br>* the whole document *                                                                                                                           | 1-15                                                |                                         |                                 |
| 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<br>The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                           | Date of completion of the search<br>6 December 2017 | Examiner<br>Santagati, Fabio            |                                 |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                                                                                                                                                                                           |                                                     |                                         |                                 |

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EPO FORM 1503 03.82 (P04N04)

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| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                         |                                                            |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Citation of document with indication, where appropriate, of relevant passages                                                                                                                                                                                                                                                           | Relevant to claim                                          | CLASSIFICATION OF THE APPLICATION (IPC) |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BERILLO O ET AL: "Binding of intronic miRNAs to the mRNAs of host genes encoding intronic miRNAs and proteins that participate in tumourigenesis", COMPUTERS IN BIOLOGY AND MEDICINE, vol. 43, no. 10, 1 October 2013 (2013-10-01), pages 1374-1381, XP028715750, ISSN: 0010-4825, DOI: 10.1016/J.COMPBIOMED.2013.07.011<br>* table 3 * | 1-15                                                       |                                         |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | J. LIU ET AL: "MicroRNA expression profile of gastric cancer stem cells in the MKN-45 cancer cell line", ACTA BIOCHIMICA ET BIOPHYSICA SINICA, vol. 46, no. 2, 2 January 2014 (2014-01-02), pages 92-99, XP055431774, US<br>ISSN: 1672-9145, DOI: 10.1093/abbs/gmt135<br>* table 1 *                                                    | 1-15                                                       |                                         |
| The supplementary search report has been based on the last set of claims valid and available at the start of the search.                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                         |                                                            | TECHNICAL FIELDS SEARCHED (IPC)         |
| Place of search<br><b>The Hague</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                         | Date of completion of the search<br><b>6 December 2017</b> | Examiner<br><b>Santagati, Fabio</b>     |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                                                                                                                                                                                                                                                         |                                                            |                                         |

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EPO FORM 1503 03.82 (P04N04)

### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

### 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 (supplementary) 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 (supplementary) 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 (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims:

1-15(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:

1. claims: 1-15(partially)

A kit for the detection of stomach cancer, comprising a nucleic acid(s) capable of specifically binding to at least miR-4257. A device for the detection of stomach cancer, comprising a nucleic acid(s) capable of specifically binding to at least miR-4257. A method for detecting stomach cancer, comprising measuring an expression level(s) of a target nucleic acid(s) in a sample from a subject using said kit or said device, and evaluating in vitro whether or not the subject has stomach cancer using both of the measured expression level(s) and control expression level(s) in a sample from a healthy subject measured in the same way.

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2-173. claims: 1-15(partially)

The same subject-matter as invention 1 except that the miRNA is one of the other miRs of claim 1.

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

EP 15 80 9520

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  
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06-12-2017

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06-12-2017

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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06-12-2017

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| -----                                     |                     |                            |                     |

|                |                                                                                                                                   |         |            |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------|---------|------------|
| 专利名称(译)        | 胃癌检测试剂盒或装置，以及检测方法                                                                                                                 |         |            |
| 公开(公告)号        | EP3156503A4                                                                                                                       | 公开(公告)日 | 2018-04-18 |
| 申请号            | EP2015809520                                                                                                                      | 申请日     | 2015-06-16 |
| [标]申请(专利权)人(译) | 东丽株式会社<br>NAT癌症CENT                                                                                                               |         |            |
| 申请(专利权)人(译)    | TORAY INDUSTRIES，INC.<br>国家癌症中心                                                                                                   |         |            |
| 当前申请(专利权)人(译)  | TORAY INDUSTRIES，INC.<br>国家癌症中心                                                                                                   |         |            |
| [标]发明人         | KOZONO SATOKO<br>NOBUMASA HITOSHI<br>KONDOU SATOSHI<br>SUDO HIROKO<br>KAWAUCHI JUNPEI<br>OCHIAI ATSUSHI<br>KOJIMA MOTOHIRO        |         |            |
| 发明人            | KOZONO, SATOKO<br>NOBUMASA, HITOSHI<br>KONDOU, SATOSHI<br>SUDO, HIROKO<br>KAWAUCHI, JUNPEI<br>OCHIAI, ATSUSHI<br>KOJIMA, MOTOHIRO |         |            |
| IPC分类号         | C12Q1/68 G01N33/53 G01N37/00 C12Q1/6886                                                                                           |         |            |
| CPC分类号         | C12Q1/6886 C12Q2600/178 G01N33/53 G01N37/00 C12Q1/6834 C12Q2600/158 C12Q1/68                                                      |         |            |
| 优先权            | 2014123224 2014-06-16 JP<br>2015071485 2015-03-31 JP                                                                              |         |            |
| 其他公开文献         | EP3156503B1<br>EP3156503A1                                                                                                        |         |            |
| 外部链接           | <a href="#">Espacenet</a>                                                                                                         |         |            |

## 摘要(译)

本发明涉及用于检测胃癌的试剂盒或装置以及用于检测胃癌的方法，并提供用于检测胃癌的试剂盒或装置，其包含能够特异性结合胃癌的核酸。来自受试者的样品中的miRNA和用于检测胃癌的方法，包括在体外测量miRNA。

| <br><b>EUROPEAN COMMISSION</b><br><b>Directorate General for Research and Innovation</b><br><b>EUROPEAN RESEARCH INFRASTRUCTURE CONCEPT</b> |                                                                                                                                                                                                                                                                                                                                                                                                    | <b>SUPPLEMENTARY<br/>EUROPEAN SEARCH REPORT</b> |                                                                        | <b>Application Number</b><br><b>EP 15 80 9520</b> |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------|--|
| <b>DOCUMENTS CONSIDERED TO BE RELEVANT</b>                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |                                                                        | <b>CLASSIFICATION OF THE APPLICATION (IPC)</b>    |  |
| <b>Category</b>                                                                                                                                                                                                                 | <b>Citation of document with its classification, where appropriate, and the date of publication</b>                                                                                                                                                                                                                                                                                                | <b>Relevance to claims</b>                      |                                                                        |                                                   |  |
| X                                                                                                                                                                                                                               | JP 2013 085542 A (SYMEX CORP)<br>13 May 2013 (2013-03-13)<br>"claims 1, 9, 11"                                                                                                                                                                                                                                                                                                                     | 13-15                                           | <b>INV.</b><br><b>C1201/68</b><br><b>G01N33/53</b><br><b>G01N37/00</b> |                                                   |  |
| A                                                                                                                                                                                                                               | M TSUJURA ET AL.: "Circulating microRNAs in plasma of patients with gastric cancers."<br>BRITISH JOURNAL OF CANCER, 107(10): 1607-1612, 16 March 2010 (2010-03-16), pages 1174-1179, XP055432146, GB<br>[SN: 0907-0920, DOI: 10.1038/sj.bjc.6606068]<br>the whole document                                                                                                                         | 1-15                                            |                                                                        |                                                   |  |
| A                                                                                                                                                                                                                               | RU LIU ET AL.: "A first-microRNA signature identified from peripheral serum microRNA expression profile serves as a prognosis indicator for lung cancer." EUROPEAN JOURNAL OF CANCER, ELSEVIER, AMSTERDAM, NL<br>vol.: 47, no. 5,<br>27 October 2010 (2010-10-27), pages 784-791, XP02182301.<br>[SN: 0959-8049, DOI: 10.1016/j.ejca.2010.10.025]<br>retrieved on 2010-11-03<br>the whole document | 1-15                                            | <b>TECHNICAL FIELD (IPC)</b><br><b>C12Q</b>                            |                                                   |  |
| -/-                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |                                                                        |                                                   |  |
| <b>The supplementary search report has been based on the last set of claims valid and available at the start of the search.</b>                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |                                                                        |                                                   |  |
| <b>Page of claims</b>                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Page of claims of the search</b>             |                                                                        | <b>Searcher</b>                                   |  |
| <b>The Hague</b>                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                    | <b>6 December 2017</b>                          |                                                                        | <b>Santagati, Fabio</b>                           |  |
| <b>IDENTIFICATION OF THE DOCUMENTS</b>                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |                                                                        |                                                   |  |
| <input checked="" type="checkbox"/>                                                                                                                                                                                             | particularly relevant to claims shown in the supplementary search report                                                                                                                                                                                                                                                                                                                           |                                                 |                                                                        |                                                   |  |
| <input checked="" type="checkbox"/>                                                                                                                                                                                             | relevant to claims shown in the supplementary search report, but not in the original application                                                                                                                                                                                                                                                                                                   |                                                 |                                                                        |                                                   |  |
| <input checked="" type="checkbox"/>                                                                                                                                                                                             | relevant to the same patent family, corresponding to a different claim                                                                                                                                                                                                                                                                                                                             |                                                 |                                                                        |                                                   |  |

