Abstract:
The invention generally relates to methods and devices for assessing risk to a putative offspring of developing a condition. In certain embodiments, the invention provides methods for assessing risk to a putative offspring of developing a condition that involves obtaining a maternal sample, conducting an assay on at least one infertility-associated biomarker, and assessing risk to a putative offspring of developing a condition based upon results of the assay.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - C12Q 1/68; G01N 33/48; G01N 33/53 (201 2.01)
USPC - 435/6. 11; 435/7.21; 436/89

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)
IPC(8): C12Q 1/68; G01N 33/48; G01N 33/53 (2012.01)
USPC: 435/6.1; 435/7.21; 436/89

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 435/6.12; 435/6.1; 435/7.1; 435/7.92

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase; Google Scholar; esp@cenet: offspring, progeny, descendant, child, biomarker, autism, infertility, fertility, phenotype, autism spectrum disorder, Celmatix, Piraye Yurttas, maternal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 201 1/0071033 A1 (YURTTAS et al.) 24 March 2011 (24.03.2011), abstract; para [0012], [0013], [0014], [0015], [0016], [0017], [0018].</td>
<td>1-25</td>
</tr>
<tr>
<td>Y</td>
<td>WO 2010/147714 A1 (LIPKIN et al.) 23 December 2010 (23.12.2010), abstract; para [0063], [0002], [0013], [0054], [0091], [0090], [0095], [0056], [0011], [0012].</td>
<td>15-17, 25</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C. * 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 application or patent 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

"Z" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report
24 JAN 2013

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

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