

# NON INVASIVE METHOD FOR PRENATAL DIAGNOSIS

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#### Applications:

- Non invasive prenatal diagnosis.
- Method applicable for liquid biopsy diagnosis.



#### Key benefits:

- Isolation of nucleated fetal cells.
- Feasible at all gestational ages.
- Immuno-TAG not required.



#### Offer:

- Licensing out.
- Co-Development.



### NON INVASIVE METHOD FOR PRENATAL DIAGNOSIS

#### INVENTION

The method allows separation of nucleated fetal cells from maternal peripheral blood at all gestational ages.

More specifically, the physiological separation of fetal cells allows the non invasive prenatal diagnosis and it is useful for subsequent chromosome, gene expression and protein investigations.

#### BACKGROUND

Prenatal diagnosis of chromosomal abnormalities and genetic diseases necessarily requires a source of fetal DNA or chromosomes. Non invasive prenatal screening tests are already established on free circulating fetal DNA in maternal blood. However, there are at least two major problems with the use of fetal DNA: 1) to isolate and identify with certainty fetal DNA from maternal DNA. 2) the reliability of isolated DNA, due to the fact that fetal DNA is fragmented.

Therefore nowadays there is still a need for novel non invasive diagnostic techniques allowing accurate diagnosis of fetal chromosomal abnormalities and genetic disorders in different gestational ages, lowering risks for the fetus or the mother. At the same time these novel techniques should be reproducible and advantageous from practical and economical points of view.

#### TECHNOLOGY

Prenatal diagnostic methods are a high unmet need for medical care. The innovative technology provides a method to isolate nucleated fetal cells, containing intact DNA, from the other cells present in maternal blood.

#### INVENTOR

Lattuada Debora.

#### INTELLECTUAL PROPERTY RIGHTS

Patent granted: IT, US, JP, IL, CA, EP.

Patent pending: IN, BR.

#### OFFER

Licensing out & co-development.

#### CONTACT

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