

Licensing Opportunity

The PACTT is proposing an exclusive or non-exclusive license on a new method for genotyping a minor contributor of unbalanced DNA mixtures.

Field:

- Forensic sciences,
- Anti-doping analysis,
- Transplantation,
- Pre-natal tests

Development Phase:

- A prototype has been developed and successfully tested

Patent Status:

- Priority date: November 5, 2010.
- CH Patent application filed in the name of the CHUV and naming as inventors D. Hall and V. Castella.

Innovative Aspect:

- Genotyping of small amounts of DNA in a DNA mixture.

Additional Information is Available upon Request (N Ref. IDF 13/10)

Contact:

PACTT
Technology Transfer Office
University and University
Hospital Lausanne
21, Rue du Bugnon
CH - 1011 Lausanne
Switzerland
tel: +41 21 314 39 84
fax: +41 21 314 49 57
pactt.info@chuv.ch
<http://www.pactt.ch>

Method for detecting the presence of a DNA minor contributor in a DNA mixture

Background

Genetic markers are used to analyze the DNA of one person or of two persons occurring in similar quantities. One limitation in the use of these markers is that they cannot resolve unbalanced mixtures of DNA. DNA profile of the minor contributor can be masked and cannot be genotyping.

Description of the Invention

The present invention relates to a method of detecting and genotyping the presence of a DNA minor contributor in a DNA mixture.

Proof of Concept

Inventors have shown that the genotyping of a DNA minor contributor in a DNA mixture is possible.

Applications and Competitive Advantage

This method may be used in forensic context to identify traces and persons.

This method may be also advantageously used;

- in anti-doping context when small amounts of heterologous blood is transfused to an athlete to improve his performance,
- after an organ transplant, when small amounts of the donor's DNA may survive in the recipient,
- in genetic chimera or mosaics or
- during and after pregnancy when small amounts of the baby's DNA occur in the maternal blood circulation.