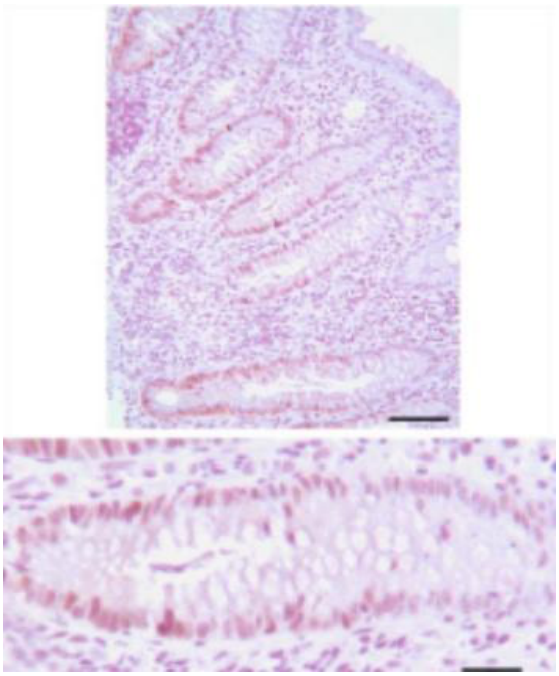
UNIVERSITÀ DEGLI STUDI DI TRIESTE

METHOD AND APPARATUS FOR THE ANALYSIS OF A SAMPLE OF SPUTUM

Use of low-field nuclear magnetic resonance (LF-NMR) on patients with pulmonary pathologies.



Category:
Biotechnology - Engineering
Patent Ownership:
UNIVERSITÀ DI TRIESTE
Inventors:
Gabriele GRASSI, Mario GRASSI, Michela ABRAMI
Priority Date:
10th June 2016
Patent Application Number:
102016000060004, EP3255420
Patent Status:
Granted in Italy, France, Germany, Great Britain, Switzerland, Sweden
Licensing Availability:
Available

Contacts:
Technology Transfer and Business Relations Office
E-mail: brevetti@amm.units.it Ph: + 39 040 558 3821

Brief description

The invention concerns the use of low-field nuclear magnetic resonance (LF-NMR) to monitor patients with pulmonary pathologies on a microbial basis using sputum.

Innovative aspects and applications

Currently, sputum is analysed to assess whether pharmacological therapy is needed and what its possible effects could be in patients with pulmonary pathologies on a microbial basis. This procedure is expensive (it requires well-equipped laboratories and highly specialised staff) and the results are not immediately available (average waiting time = 3 days).

Main advantages

This invention's advantages are numerous: it is simple (it is sufficient to insert a sample of saliva in the NMR machine), inexpensive (it does not require labs nor highly specialised staff) and, therefore, it allows frequent monitoring of the patients.

Potential market

The global market of medical diagnostics hospital labs, as well as the low-field NMR equipment manufacturers.

Development status

Available for the market.

Università degli Studi di Trieste
Piazzale Europa, 1
I - 34127 Trieste
Tel. 040 558 3821
Mail: brevetti@amm.units.it
www.units.it/brevetti