COPD, cystic fibrosis, asthma, etc. could all be much better understood or treated if we had a more accurate view of the viscoelastic properties of sputum. Rheomuco is specifically designed to allow biophysical analysis of sputum, while remaining simple to use even by non-specialists in rheology.

Looking for new ways to understand and analyze sputum? We are thrilled to present Rheomuco. Contact us to set-up a demo!

contact@rheomuco.com // www.rheomuco.com
A biophysical solution for sputum analysis
Rheomuco is specifically designed to help you study and develop treatments for pulmonary disorders. Our innovative equipment measures the viscoelasticity of sputum and offers you real-time high-quality rheological data which is easy to interpret.

Enhancing your research
Explorations of conditions associated with sputum-related problems generally rely on spirometry. A few studies have also reported the use of rheometers[1,2].

We are thrilled to present Rheomuco. Contact us to set-up a demo!

www.rheomuco.com

Rheomuco: a 3-step protocol
1. Collect sputum samples
2. Prepare the sample – 5 min (one measurement per sample)
3. Measure its viscoelasticity – 10 min

The Rheomuco offer
The Rheomuco offer covers full support for method implementation, which includes:
• Advice on collecting and preparing samples
• Installation of the Rheomuco
• Training for its use
• Installation of dedicated software for sputum analysis which pilots the device and handles data acquisition and analysis.

In addition, Rheonova proposes complementary tailored services:
• Maintenance
• Help with setting up new protocols or analyzing results.

Specifications
• Equipment dedicated to mucus analysis: G* modulus > 0.1 Pa
• Range of measurements from mucociliary clearance to cough: 0.1 Hz – 10 Hz
• Experiments performed at 37 +/- 0.1 °C
• Small footprint: L: 50 cm / l: 50 cm / h: 40 cm
• Measurement cell disinfection: washable & autoclavable, or disposable
• Dedicated software supplied, data exportable to PC
• Power supply: 220 V, 50 Hz
• No need for compressed air
• Torque resolution: 0,1 mN.m

An innovation signed Rheonova
Rheomuco is developed by Rheonova, an expert in rheology for industrial applications. Since 2010, Rheonova has served and advised a range of industrial sectors – chemistry, pharmacy and cosmetics – helping them to measure, understand or improve complex viscoelastic properties of their products or in their processes. With Rheomuco, Rheonova has created an innovation both for rheology and for health, by providing accurate easy-to-use equipment for routine sputum analysis.