

Respiratory

A dedicated portfolio of services for your biomarker research in respiratory diseases

THERAPEUTIC FOCUS

- Chronic Obstructive Pulmonary Disease (COPD)
- Asthma
- Lung cancer

CLINICAL STRENGHTS

- Research Institute for asthma and COPD
- Biomarker Development Center
- Key clinical experts in the Respiratory field
- Multidisciplinary translational studies
- Experience with biomarker discovery
- Experts in patient phenotyping and stratification
- Genetic studies of asthma and COPD
- Biomarker research in Phase I and Phase II clinical trials

PRECLINICAL CAPABILITIES

- Preclinical testing for asthma, COPD, smoked-induced COPD
- Microdialysis in lungs
- Cell interactions studies in sputum, airway and lung tissues
- Genetic studies, translational research



SAMPLE COLLECTIONS

- Patient cohort studies in asthma, COPD and severe COPD
- Large-scale intervention studies
- Possibility of de-novo sampling in patients
- Biomarker discovery in general population biobank (165.000 subjects)
- Matrices: cells, tissues, BALF, plasma, urine, DNA, RNA, sputum

BIOANALYTICAL SOLUTIONS

- Respiratory assays specialties:
 - Fibrinogen in plasma
 - Desmosine & isodesmosine in urine
 - Survivin protein in serum
 - MMP-9 in BALF
 - Histamine metabolites in urine
 - Inflammatory markers
 - Soluble RAGE
- Validated assays available in primary cells, lung tissue, microdialysates, BALF, sputum, plasma, urine, exhaled breath