



Answers for Science.  
Knowledge for Life.™



**Dr. Catherine Guette**

Group Leader of the  
Clinical Proteomics Unit

## Case Study

### Project Goal

In colorectal and breast cancers, we use proteomics to identify a senescence secretome to find biomarkers that could predict the efficacy of treatments.

### The Solution

The TripleTOF® 5600+ System, a robust LC-MS/MS platform working at high throughput in microflow mode. It's way faster – 1 hour per sample - and more robust compared to nano flow with similar sensitivity.

We use SWATH Acquisition to get comprehensive coverage and high quality quantitation across many samples.

### Biggest Challenges Right Now

- Ability to identify and quantify as many proteins as possible in our samples
- Acquisition of reproducible quantitative data
- Creation of permanent digital record of the proteome for each sample

### Research Outcomes

We can work on very large cohorts (more than 150 tumor samples) to identify robust biomarkers or to better understand the cancer biology.

**“SWATH Acquisition allows the creation of permanent digital record of the proteome for each cancer sample.”**

#### Type of Organization

Cancer Research Institution, Biomarkers & Omics

#### Goals

Identification of soluble and detectable markers of tumor progression

#### SCIEX PRODUCTS/ APPLICATIONS

- SWATH® Acquisition on the TripleTOF® 5600+ System
- SCIEX NanoLC™ 400 System (Microflow Mode)
- PeakView® Software
- MarkerView™ Software
- Multi-Omics Data Integration with OneOmics™

**“Our activity in personalized medicine in oncology has dramatically increased.”**

For Research Use Only. Not for use in diagnostic procedures.

AB Sciex is operating as SCIEX. © 2018 AB Sciex. The trademarks mentioned herein are the property of the AB Sciex Pte. Ltd. or their respective owners. AB Sciex™ is being used under license. RUO-MKT-07-7963-A

**Answers for Science. Knowledge for Life.™**