thermo scientific

Small molecule characterization and identification **clouding your decision making?**

We create a **staggering amount** of data in the cloud

Data never sleeps

Data per minute

Source

But is the cloud **safe**?

It's keeping planes in the clouds!

How the cloud helps us to fly high

- Increased safety
- Live performance
- Instant feedback and monitoring
- Feedback into production, lifecycle, design, manufacturing, operational efficiency

Source

How can the cloud benefit **my lab**?

Store, compute, share

Cloud benefits

- Efficiency
- Scalability
- Flexibility
- Security
- Uptime
- Latest information

Traditional methods

- Slow
- Time to decision
- Old information
- Not scalable
- Traceability

Linking the cloud with hardware and software

Solving tomorrow's problems, today

The challenge

- Confident identification of compounds in challenging matrices
- Complete unknowns

Capturing the data

- Excellent spectral clarity: separate elemental isotopes with high resolving power
- Automate complete MS^3 sample profiling with Thermo Scientific™ AcquireX intelligent data acquisition

Remote monitoring

- Through the cloud, monitor your instruments, view queues and acquisition information
- Powerful logbook capabilities and service tools
- Customizable utilization report to track instrument usage

Enabling software

- Accessing the latest, comprehensive information to make fast, confident identifications based upon real data

When the cloud is a dream

- When internet connectivity is not available, utilize the power of mzCloud's MS/MS level information in an offline library

The right answer, confidently

- From the known components, through to the new and novel, accessing millions of fragmentation spectra allows confident assignment of component structures
- Even when something is new, identify sub-structural information and unlock knowledge

Depth, breadth and completely up to date

- A comprehensive high-resolution spectral library, consistently updated with the broadest diversity of compound classes
- Access knowledge with speed through enabling software that can quickly and confidently identify known compounds
- From the extensive fragmentation information covering a range of collision energies and techniques, you can be sure of sub-structural matches for even the most diverse of compounds, from new chemical entities to designer drugs
- Direct access to tomorrow's knowledge, today

Connecting your lab to drive more insights from your data

Cloud-based technologies, including mass spectrometry analysis software, are becoming more prevalent in laboratories. These technologies can connect pieces of hardware, access the latest information to aid in processing large and complex datasets and obtain deeper insights into our data, both faster and with more confidence than ever before.

Find out more at **thermofisher.com/MScloud**

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