

All the elements.
All the time.

With high-speed mass spectral acquisition and simultaneous analysis of all isotopes, the icpTOF is the ideal ICP-MS detector for **multi-element single particle analysis** or **laser ablation imaging** in biological, chemical, geological, and environmental laboratories throughout the world.

icpTOF

**All the elements.
All the time.**

The icpTOF always records complete mass spectra, so you never miss an analyte or interference signal.

High mass resolution.

The icpTOF 2R has a mass resolving power of 6000 allowing you to separate interfering ions.

Precise isotope ratios.

The icpTOF simultaneously measures all isotopes, thus eliminating the susceptibility of your measurements to source and sample fluctuations. Precision approaches statistical limits.

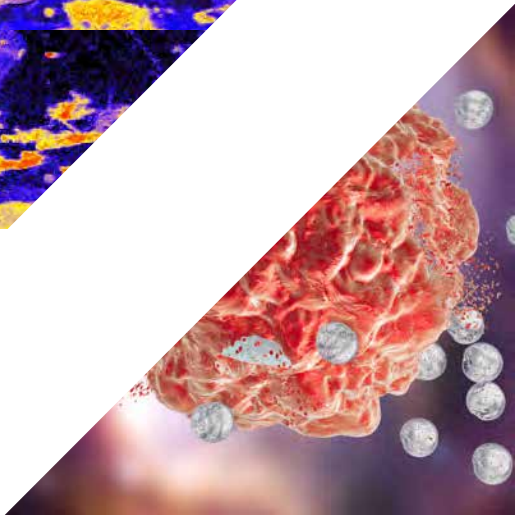
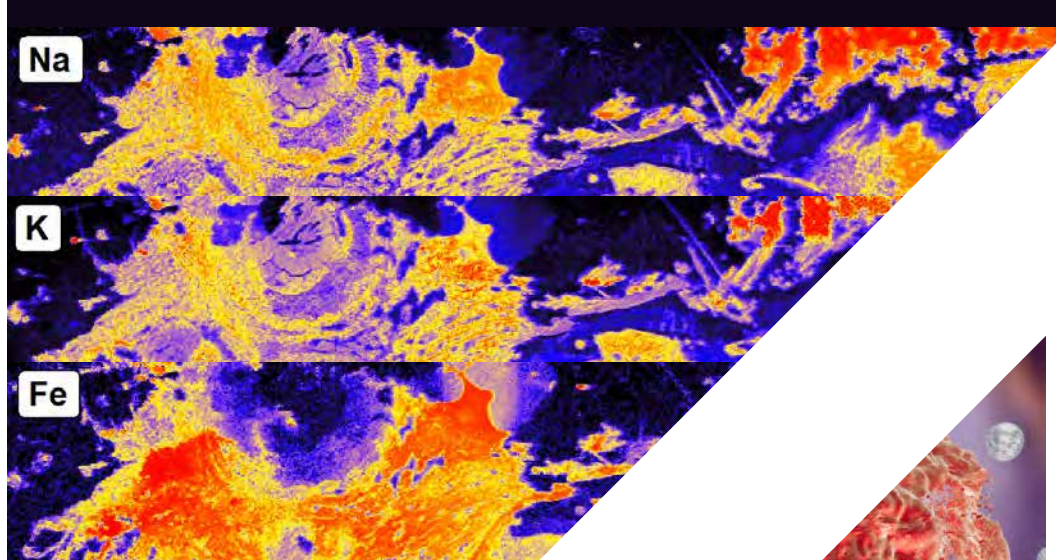
High speed detection.

The icpTOF records a complete mass spectrum every 30-50 μ s making it the optimum detector for fast transient signals such as individual nanoparticles, fluid inclusions, and laser ablation pixels.



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www.tofwerk.com
icp@tofwerk.com

Multi-elemental LA-ICPMS image of the median plane section of a whole mouse (detail). Laser spot size 20 μm , 1 shot per pixel, acquisition at 100 Hz (100 pixel/s).

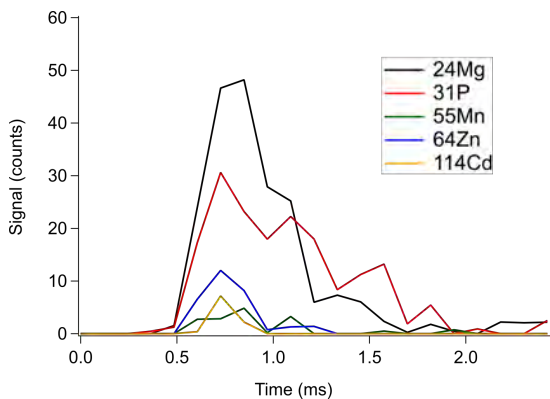


All-Elemental Bioimaging with the icpTOF

The combination of the icpTOF with fast-washout laser ablation systems enables high-resolution, multi-elemental imaging of metals in biological tissue at unprecedented speed.

The icpTOF mass spectrometer enables the simultaneous detection of all elements in a single cell, making it an ideal and unique tool for cell-by-cell ionic analysis.

Single-Cell Elemental Analysis with the icpTOF



Example of a recorded signal for a single *Wickerhamomyces anomalus* yeast cell.

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