



quo data

quality management and statistics GmbH

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We Let Your Data Speak

Company

Year of creation:	1995
Business managers:	Dipl.-Psych. Kirsten Simon (MBA) PD Dr. habil. Steffen Uhlig
Branches:	Dresden Munich
Company's size:	22 employees (10 scientists and 6 software developers)
Areas of activity:	Services and development of new methods with analytical quality assurance as main focus

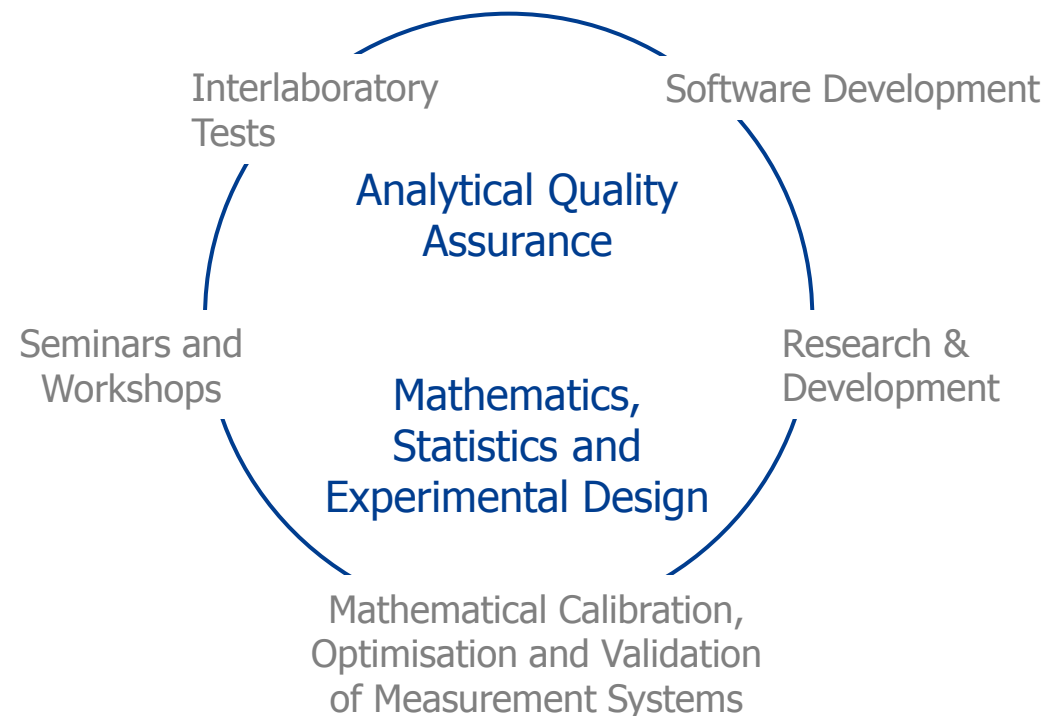
We Let Your Data Speak

About us

Quo data is a middle-sized company with a high stake in research.

Our core activities involve in-house developed, unique and very powerful procedures and algorithms for the optimisation, validation, mathematical calibration and quality assurance of measurement methods.

In our various activities, methods from the fields of mathematics, statistics and experimental design all play an important role alongside sound scientific know-how.



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Cooperation Partners

Through many years of successful cooperation, we have managed to build relationships based on mutual trust with a great many important institutions. Apart from private-sector partners and various universities, these include research institutions such as the Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) and state institutions such as the Federal Office of Consumer Protection and Food Safety (BVL).

These relationships have developed through cooperation on research projects as well as through long-standing contracts.

In the context of these cooperations

- we bring newly developed measurement methods and sensors to the point where they are validated or, as the case may be, we accompany them through the process of standardization or certification,
- we carry out interlaboratory tests in order to validate new methods or for laboratory proficiency testing we perform sample collections, e.g. in the context of nationwide monitoring programs for consumer protection,
- we publish papers written in collaboration with our partners in recognised scientific journals.

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Standardization and Certification

Standardization and certification play a crucial role in the process of introducing newly developed methods to the market. We are very active in the area of standardization, not only with respect to the standardization of measurement systems, but also with respect to the elaboration of new standardization procedures.

Indeed, an innovative approach is often necessary to meet the challenges that new measurement principles and requirements represent. Our employees are active in more than 20 national and international committees (e.g. DIN, ISO, OECD, BMU, BVL, LAWA) and are up-to-date as regards the requirements which newly developed measurement systems must meet.

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Mathematics, Statistics and Experimental Design

Calibration and Quantification

For every measurement procedure, questions such as the following arise:

How does one obtain a measurement value from the actual signal or its evolution? How does one minimise errors in measurement by selecting the correct calibration function, or by powerful computational methods, or appropriate calibration rules?

How can one minimise from the outset the danger of erroneous measurement values by means of appropriate plausibility tests?

In which cases is it recommended to apply correction procedures to the measurement signal?

Which measurement design guarantees the optimal ratio between time and effort and measurement reliability?

We pride ourselves on the wide spectrum of different, sometimes unique, calibration models and powerful computational algorithms we can resort to.

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Mathematics, Statistics and Experimental Design

Rational Decision Limits and Measurement Uncertainty

How does one decide, on the basis of the measurement signal, whether or not the sample has definitely tested positive?

We have developed powerful algorithms which, on the one hand, enable the computation, with the actual measurements as input data, of rational and efficient decision criteria, whilst, on the other, guaranteeing minimal error probabilities.

Efficient algorithms for the computation of measurement uncertainty are fundamental in this context. Such algorithms are also used when, in connection with quantitative measurements, the uncertainty must be specified in accordance with GUM.

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Mathematics, Statistics and Experimental Design

Method Optimisation, Error Identification and Validation

The identification of sources of error in newly developed methods is often a laborious and time-consuming task.

Our unique, powerful and in-house developed tools can successfully perform

- the optimisation and adjustment of already existing measurement methods,
- the identification of causes for the non-reproducibility of measurements,
- the characterisation of the performance of the measurement procedure (validation)

much faster than is usually the case. As a result, the costs of development can be very considerably reduced.

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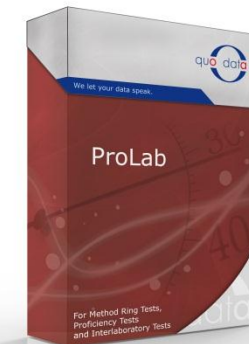
Software

We grant access to our software either in the form of self-contained programs or as a service by means of online applications. Our software product range goes from analytical quality assurance to statistical trend- and risk-analysis.

For the planning, the performance, and the evaluation of interlaboratory tests: **ProLab** | **ProLab Plus** | **RING**

For comprehensive in-house validation and evaluation of the equivalence of analytical methods: **InterVal** | **InterVal Plus** | **EquiVal**

For the analysis of measurement uncertainty: **GUMsim**



For analysis and optimisation: **OptiVal**

For the calibration of biochemical procedures: **BioVal**

For environmental monitoring: **RTrend** | **WaterStat**

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Interlaboratory Tests

In the context of a interlaboratory test, similar samples are examined by several laboratories. Accordingly, interlaboratory tests are implemented in connection with the standardization of measurement procedures, the evaluation of laboratories, as well as the elaboration of reference materials.

We carry out interlaboratory tests in the following areas

- hazardous goods and materials,
- forensics,
- marine environment,
- food and utensils
- feedingstuffs,
- drinking water, surface water, waster water
- etc...

Depending on your needs, we can take charge of the performance of any part of a interlaboratory test, from the dispatch of samples to the statistical evaluation and the generation of reports and corresponding certificates.

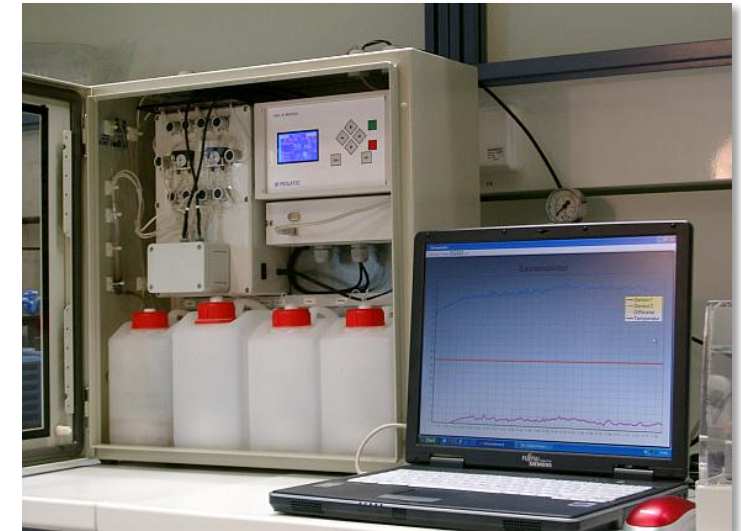
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Measuring Systems

EstraMonitor and A-YES aqua Test-Kit are two measuring systems for the detection of estrogen and estrogenic agents in ultrapure water, drinking water and waste water. These systems are based on nonconventional salt- and temperature-tolerant yeast cells.



The A-YES aqua Test-Kit is a microtitre plate colour test for use in laboratories



The EstraMonitor is an online-analysis tool for monitoring wastewater treatment plants.

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R & D-Projects

Phyto-chips

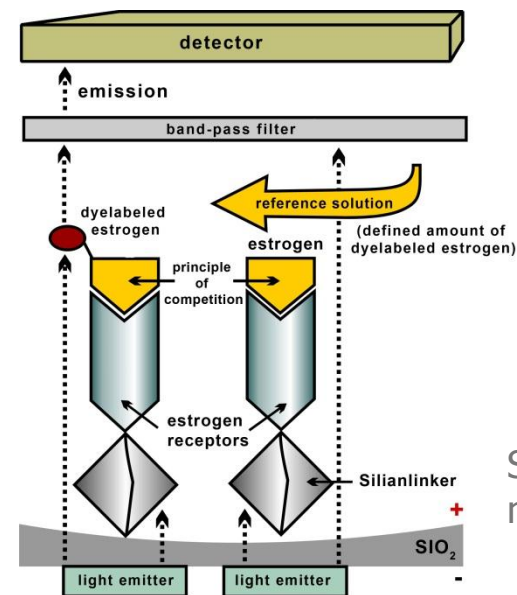
A biological rapid test is being developed in the shape of a **Lab-on-a-Chip-System** in order to detect phytopathogenic RNA-viruses in plants.



Wheat plants with „Barley Stripe Mosaic Virus“ (BSMV)

Bio-LED-Sensor

The aim is to develop a biotechnological **analysis procedure for the enrichment and measurement** of steroidlike agents in aqueous samples.



Steroid detection based on a miniaturised sensor platform.

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Seminars and Workshops

We regularly offer **Seminars** on topics from the fields of statistics and quality assurance. The speakers offer the participants first-hand knowledge about the latest methods and procedures.

The **quo data-workshops** are designed for those interested in learning about our software. Once the basics are covered, the focus is on solving real-life day-to-day problems.

