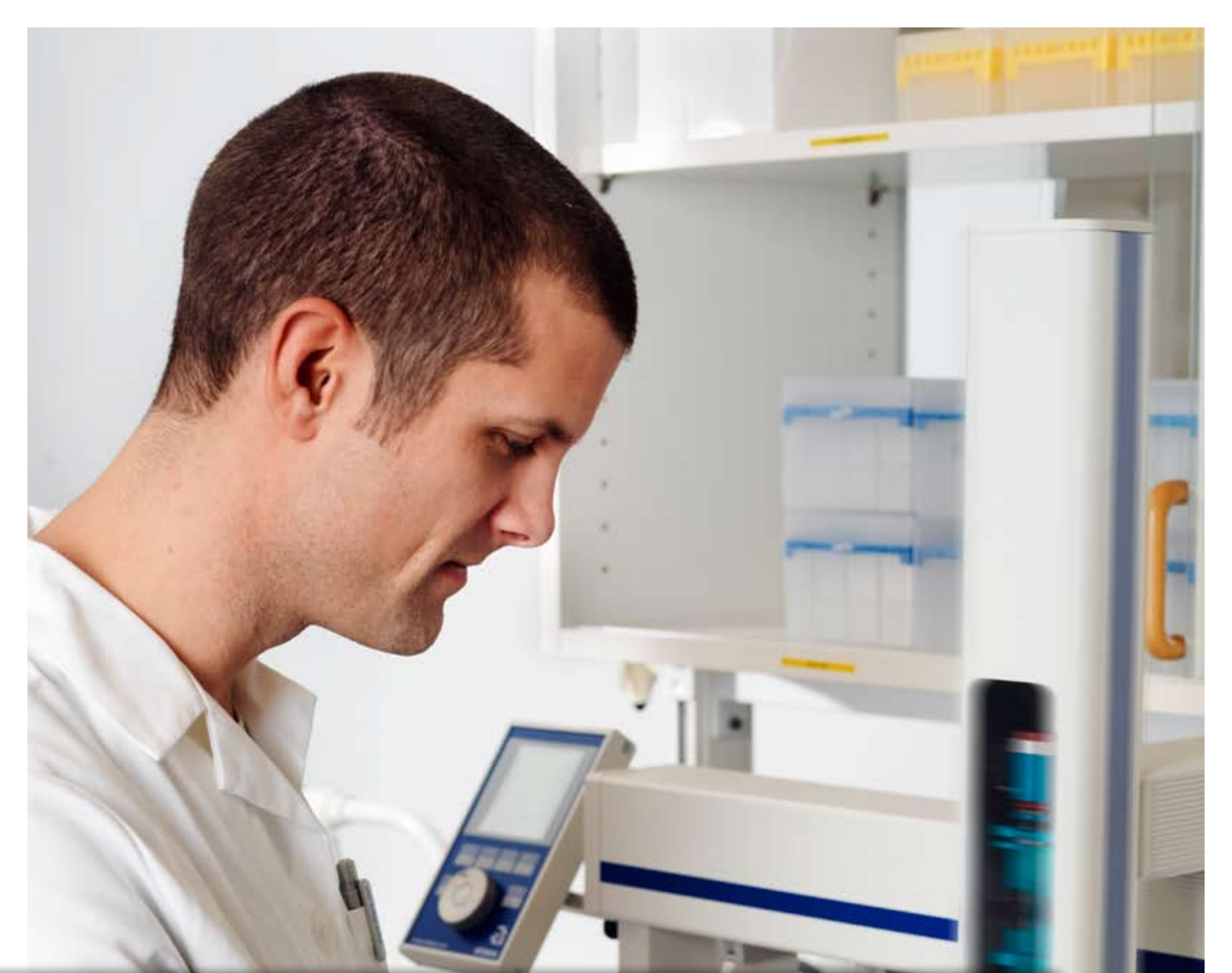




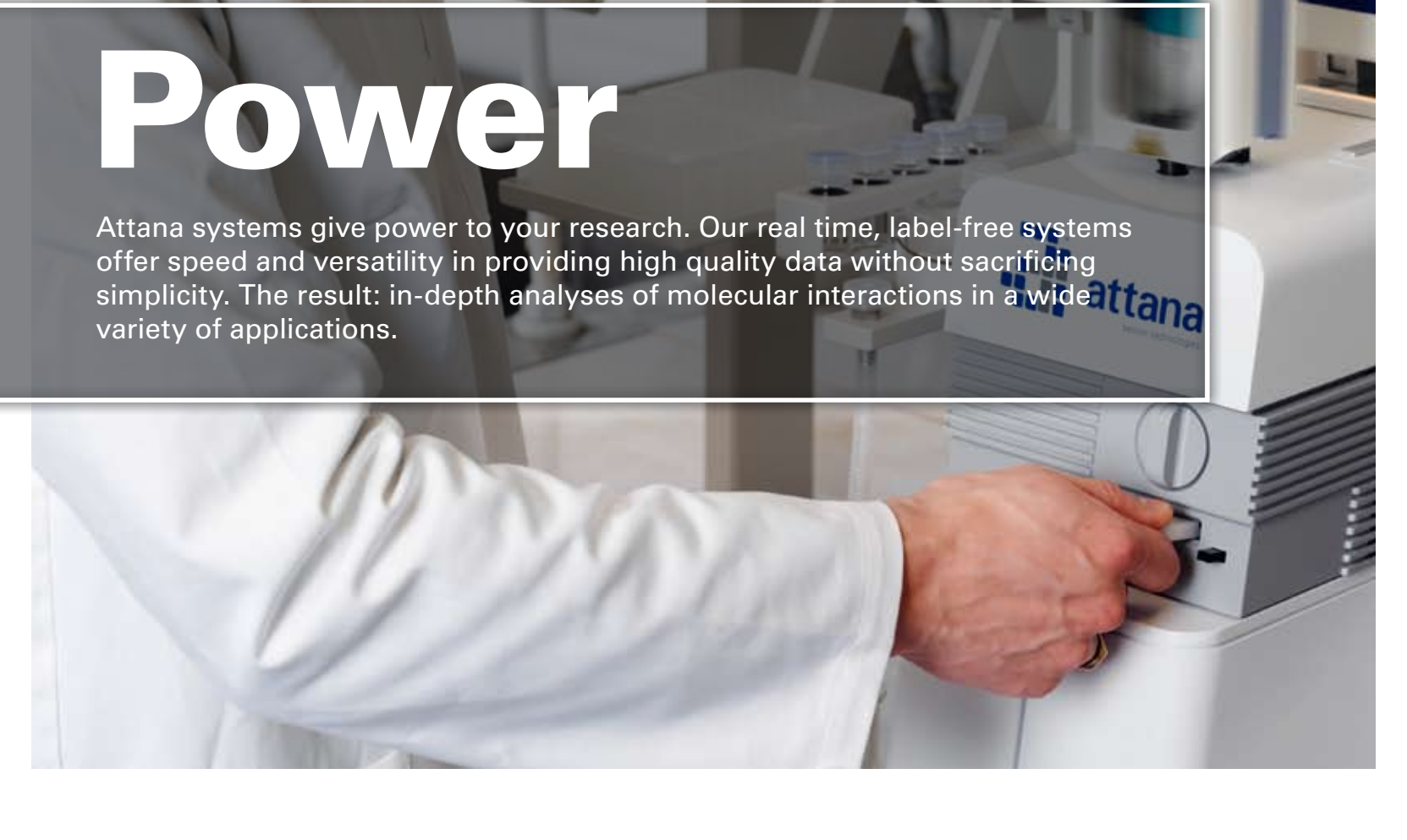
Balancing **Power** and **Simplicity** in Molecular Interaction Studies





Power

Attana systems give power to your research. Our real time, label-free systems offer speed and versatility in providing high quality data without sacrificing simplicity. The result: in-depth analyses of molecular interactions in a wide variety of applications.





HIGH QUALITY DATA

Attana systems are optimized for real time, label-free molecular interaction studies (kinetics: on/off rates; affinity; concentration; thermodynamics), providing considerable advantages over end-point assays such as ELISA. The systems are characterized by high stability and low noise enabling rapid determination of low off-rates. Furthermore, precise temperature control permits thermodynamic studies and optimizes the environment when working with temperature-dependent reagents.

SPEED

Rapid start-up, pre-programmed templates and automated sample injections enable you to save time and maximize productivity. The ability to analyze crude samples directly from cell culture media, without purification, speeds up applications such as characterization and selection of monoclonal antibodies. Moreover, productivity is maximized by allowing unattended sample analysis with a capacity to screen hundreds of samples in less than a day.

PROVEN, RELIABLE & VERSATILE

Based on the proven, reliable and versatile Quartz Crystal Microbalance (QCM) technology, Attana systems are optimized for life science research and development. A wide variety of sensor surfaces ensure that our systems can be utilized within diverse applications. Our unique Polystyrene surface offers unparalleled convenience. Assay set-up, which mimics an ELISA coating procedure, is fast and simple without compromising the kinetic performance of subsequent interaction analyses.

AFFORDABILITY

Attana systems are affordable and cost-effective alternatives for accessing in-depth analyses of molecular interactions, delivering high quality data in a variety of applications.



attana
sensor technologies

Simplicity

Attana systems add simplicity to your research. Our systems are developed with the end-user in mind: plug-and-play operation, rapid start-up, intuitive assay set-up and pre-programmed methods and templates are just a few of the system features. We want you to use our systems, not be intimidated by them. Naturally, should you require assistance our dedicated application specialists are at your service.



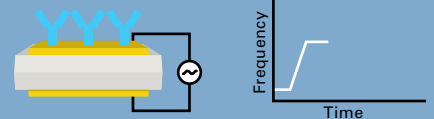
Easy as 1-2-3

1



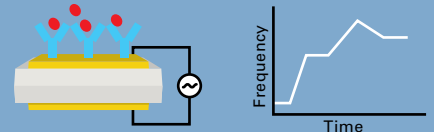
The Attana chip consists of a gold layered quartz crystal which is made to oscillate by adding an AC-potential. The frequency of the blank chip is measured and presented in Attana's Attester software.

2



Antibodies (or other targets) are injected into the system and covalently bind to the chip surface. As the mass on the surface changes a new frequency is registered, in real time.

3



An antigen (or other sample) is injected and as it binds to the target a frequency change is registered (on-rate). Thereafter, the off-rate is observed as the sample leaves the target.

PLUG-AND-PLAY OPERATION

We take much care in developing the usability of our systems so you can focus on obtaining swift and accurate research results. Rapid system start-up combined with pre-programmed templates and automated sample injections ensure that you save time and maximize productivity.

INTUITIVE SOFTWARE

The user-friendly Attester® software suite links all aspects of our systems, from instrument control to data collection and analysis. A methodical interface guarantees a functional operational environment.

APPLICATION SUPPORT AND SERVICE

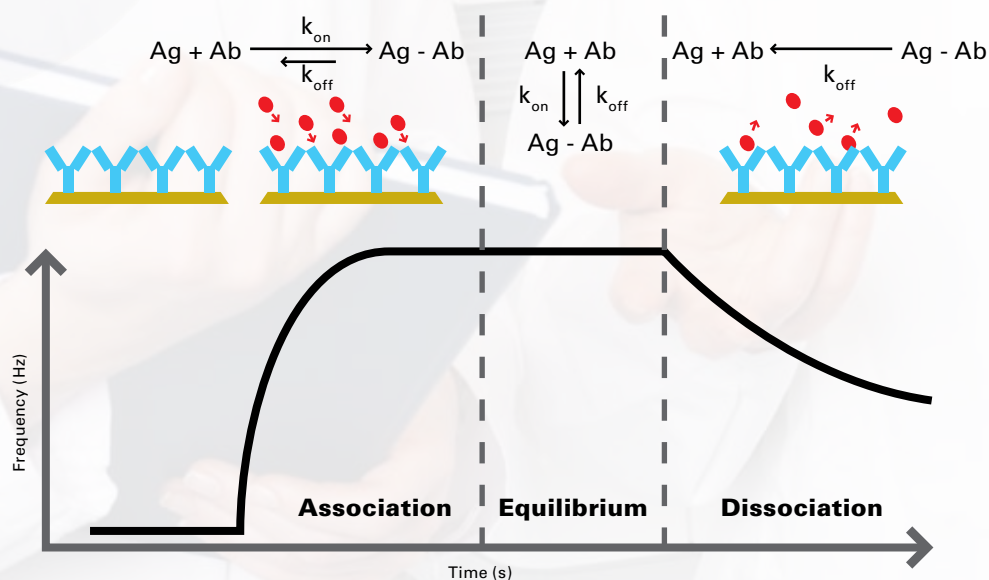
Although our aim is to provide simple and intuitive systems, dedicated and highly qualified application specialists are at your service, should the need arise. Offering training, technical support and application support, we are at hand to minimize any potential interruptions in your research.

Molecular interactions

Molecular interaction studies are becoming increasingly important in the selection and characterization of antibodies and other molecules. Offering label-free, real-time analysis of kinetics and affinity, biosensors are now established as valuable tools in research as well as in the development of clinical assays and therapeutics.

Application Example

Monitoring molecular interactions in real-time provides kinetic information and affinity.



Measuring the real-time interaction of a sample to an immobilized target generates a plot, referred to as a sensorgram, from which kinetic information (on- and off-rates) can be derived. The on-rate is derived from the association phase of the sensorgram as the sample molecules bind to the immobilized target. Following equilibrium, as the sample molecules dissociate from the target, the off-rate is derived.

Attana – Balancing **Power** and **Simplicity** in Molecular Interaction Studies

Based in Stockholm, Sweden, Attana is a pioneer in the development of continuous-flow Quartz Crystal Microbalance systems. Our systems have since 2003 been employed at leading universities and biotech companies in a wide variety of research fields within the life sciences.

POWER to your research – Our real time, label-free systems offer speed and versatility while providing high quality data. The result: in-depth analyses of molecular interactions in a wide variety of applications.

SIMPLICITY in your research – Our systems are developed with the end-user in mind: plug-and-play operation, rapid start-up, intuitive assay set-up and pre-programmed methods and templates are just a few of the system features. The result: save time and maximize productivity in your research.

For more information on how Attana can benefit your research please visit www.attana.com.

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sensor technologies