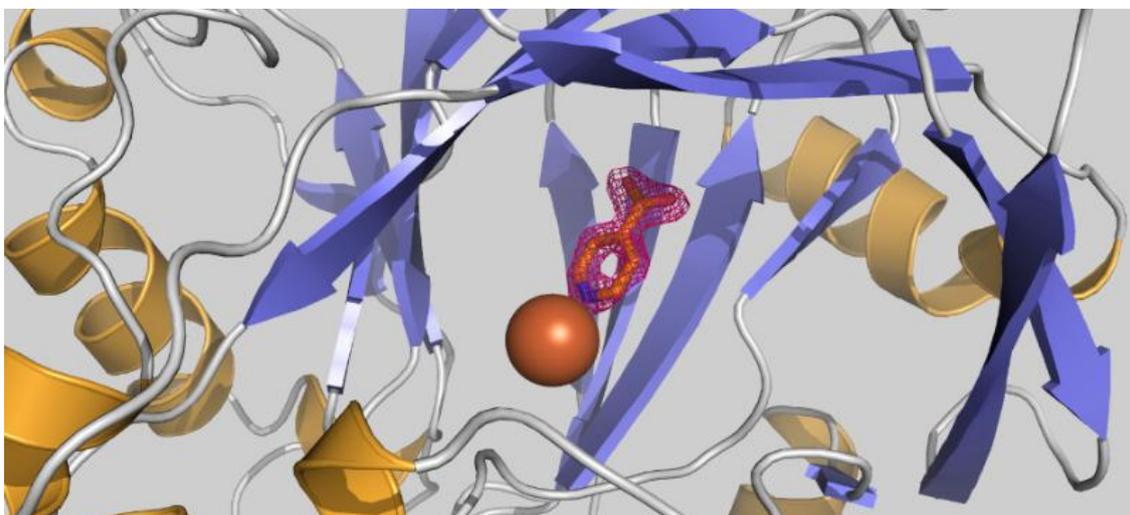


Using MST as Primary Fragment Screen

CRELUX has acquired an NT.Automated for MST with higher throughput

Having successfully used MST for over 60 different target proteins, CRELUX is the most experienced user world-wide and has pioneered the application of thermophoresis for the analysis of biomolecular interactions.



The structural validation of a MST fragment hit bound to a JMJD2, an epigenetic target. High resolution helped to determine an unambiguous binding mode.

CRELUX has installed the new **automated MST** device in house at the beginning of 2016 and is now able to add this technology to its existing **fragment screening** technologies. MST using Monolith NT.115 and NT.LabelFree systems have successfully been applied for **hit and fragment validation** at CRELUX over the past eight years. Having the automated system in house now, a higher throughput is possible which enables us to efficiently run MST also as primary screen.

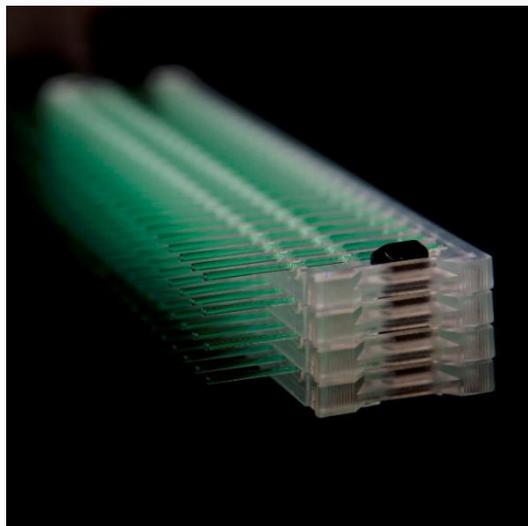
Our **fragment library** consists of 1700 rule of three complying compounds and can be screened with various biophysical methods like NMR, LC-MS, thermal melt and now also by MST. In addition, commercial compounds and client compound libraries can also be accommodated. All screening proteins are generally produced in house. Subsequent hit validation is performed by an orthogonal method from our broad range of hit validation and functional assays.

Crystal structures of complexes with the validated hit molecules complement the perfect package to start any MedChem program.

Interested in using our platform? [Contact us for further information or a quote.](#)

Recent publications demonstrated the use of microscale thermophoresis (MST) for fragment screening ([Linke et al. 2015](#)). This has been enabled by using the [Monolith NT.Automated](#) which has been built and developed by [Nanotemper Technologies](#).

CRELUX - as the most experienced user world-wide - offers MST services including: assay development, supply of proteins for MST (or other assays), fragment screening, fragment or hit validation and any kind of interactions studies.



MST measurements are performed in capillaries.
Courtesy of Nanotemper.

[Meet us at the 2nd Drug Discovery Forum](#)

<http://www.drug-discovery-forum.com/>

Get more information about microscale thermophoresis and nanoDSF from Nanotemper application specialists and world-wide users in academia, biotech and the pharmaceutical industry.

CRELUX is your premium partner for collaborative drug discovery programs, protein supply, X-ray crystallography, biophysical analysis and fragment based screening services.

Please visit our websites at www.crelux.com to learn more about the solutions we are providing to our growing number of clients.

Meet us at

[Bio Europe Spring](#), April 4-6, Stockholm, Sweden

[2nd Drug Discovery Forum](#), May 8 -11, Munich, Germany

[RICT 2016](#), July 6-8, Caen, France

[Discovery on Target](#), September 19-22, Boston, MA



CRELUX GmbH - Am Klopferspitz 19a - 82152 Martinsried – GERMANY

Dr. Michael Schaeffer - +49 (0)89 700 760 170 - schaeffer@crelux.com