



SciLifeLab
industry users:
>100 yearly

SciLifeLab user case: **Industry**

Drug development

Testing of biological drugs “biosimilars” using NMR

SARomics Biostructures offers structural experimental expertise, primarily using X-ray crystallography, for drug development of different types of molecules and targets. During the last years quality testing of biological drugs, primarily biosimilars, using NMR have become an increasingly popular technique which can also be used for formulation development.

A biosimilar is a biologic medical product that is almost an identical copy of an original product that is manufactured by a different company. Biosimilars are officially approved versions of original “innovator” products and can be manufactured when the original product’s patent expires. Biosimilars should have no clinically meaningful differences in terms of safety and effectiveness from the reference product.



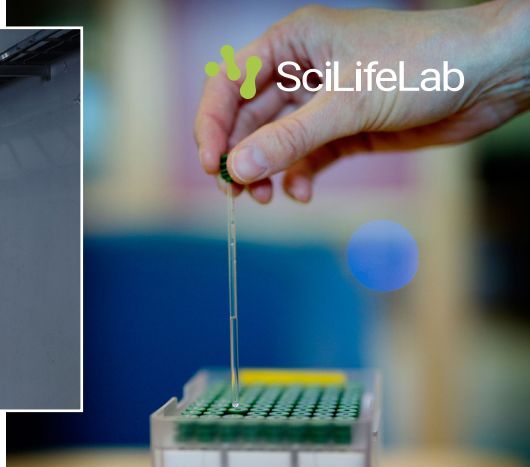
Collaborating with SciLifeLab has worked very well over the years, in several ways. Firstly, the equipment and expertise is excellent, and secondly it makes it more cost-effective for us. Even if we were to invest in a spectrometer, we would never have the same range with the set of different spectrometers, probes and automatization as the ones available through SciLifeLab”, says Carl Diehl, manager of NMR Services at SARomics Biostructures.



Curious to learn more? Access full case text through the QR code!



Swedish NMR centre Gothenburg.



SciLifeLab infrastructure related to the case

The Swedish NMR Centre facilitates structural biology and chemical biology research, and offers a wide range of NMR-based techniques, including protein structure determination, small molecule screening, and metabolomics. At the Swedish NMR Centre you do not need to set up a collaboration with an academic PI (Principal Investigator) to get access or the help you need. The entire booking schedule is available on the website and dedicated infrastructure staff scientist can help with anything from experimental design to sample preparation and analysis of your data.



It is a spur to have the biosimilar characterisation assay set up for both academic and industrial users. Collaborations with both academia and industry give rise to interesting and useful technology development, and it is also a way to benchmark that we offer measurements of very high quality”, says Cecilia Persson at the Swedish NMR Centre, SciLifeLab.

Swedish NMR Centre

The Swedish NMR Centre is a research infrastructure that provides access to state-of-the-art NMR instrumentation, methodology and expertise specifically within:

- Structural biology
- Metabolomics
- Chemical biology
- Small molecule DNP-NMR

Access and application

The Swedish NMR Centre provides service and access to state-of-the-art NMR equipment for academic research as well as industry on a national level. Project applications are continuously evaluated and approved projects are supported on various levels, from basic service to involved collaborations, depending on the user's needs. Welcome to apply for a project through our portal nmraccess.se.

Get in touch!

scilifelab.se/units/swedish-nmr-centre/

SciLifeLab constitutes more than 40 units across Sweden, offering multiple techniques in life science areas such as: Genomics, Proteomics, Metabolomics and exposomics, Spatial biology, Cellular and molecular imaging, Structural biology, Chemical biology and genome engineering, Drug discovery, Bioinformatics. Explore possibilities and find contacts for specific requests on scilifelab.se/services