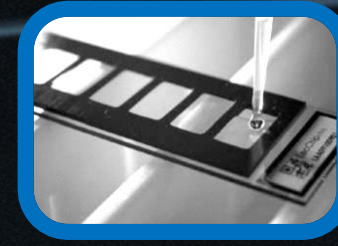


Comparative glycan profiling analysis is possible with ng of the target glycoprotein without cleaving glycans from the carrier protein.

GlycoStation® : Glycan Profiling System

By expanding this technology, we are now developing a novel **Optic Biome sensor (OBS)** as an inexpensive, fast, and easy-to-use sensor.



エムック
for the coming new age

New Lectins



Lectins	Typical Glycan binding specificity
SeviL	GM1b, GA1
MytiLec	Gal α (1,6)Glc、 Gal α (1,4)Gal β (1,4)Glc
HOL-30	Type-1 and Type-2 LacNAc
hRTL	TF-antigen

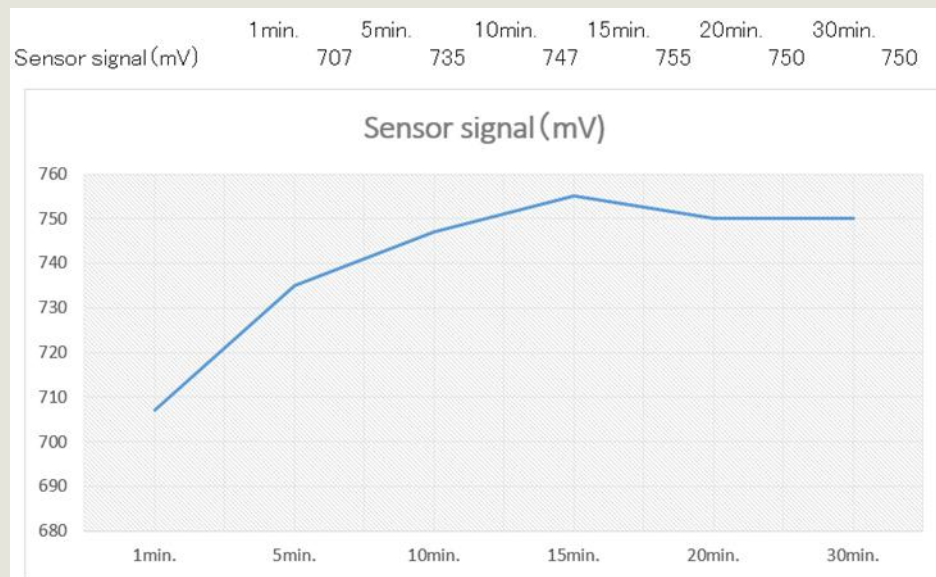
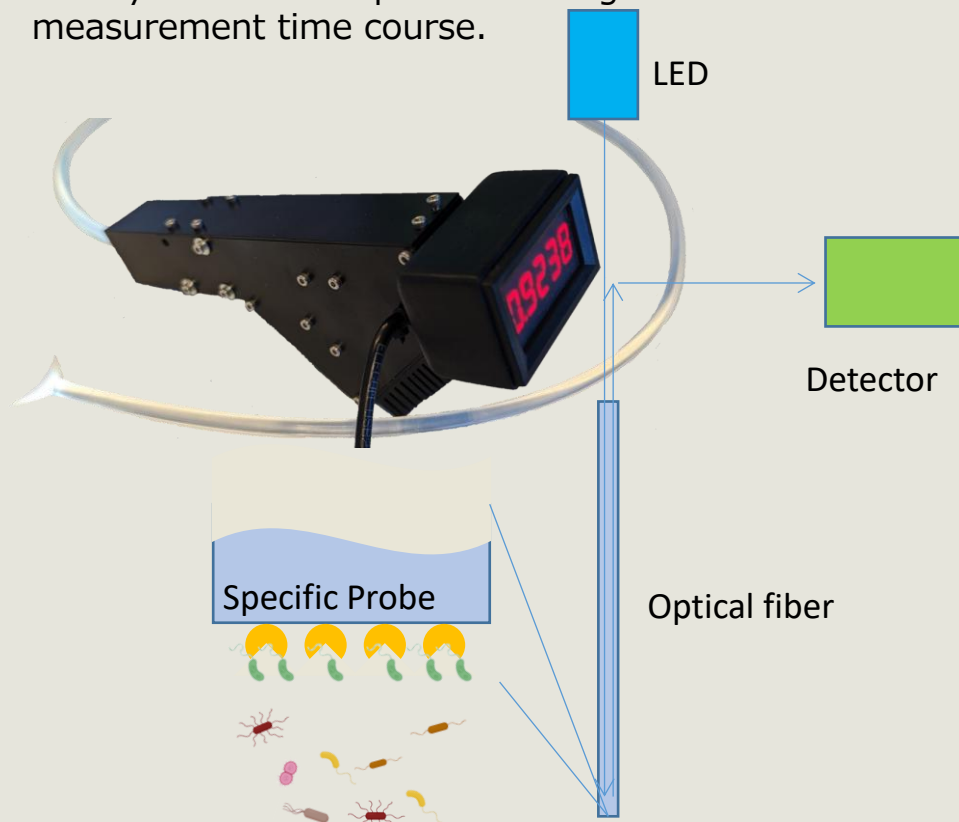
Introducing AI (SA/DL Easy)

Using lectin microarrays, it is easy to perform glycan profiling of target objects. The easiest way to analyze differences in glycan profiling between target objects and identify targets based on those differences is to combine it with AI. Refer to → → → →

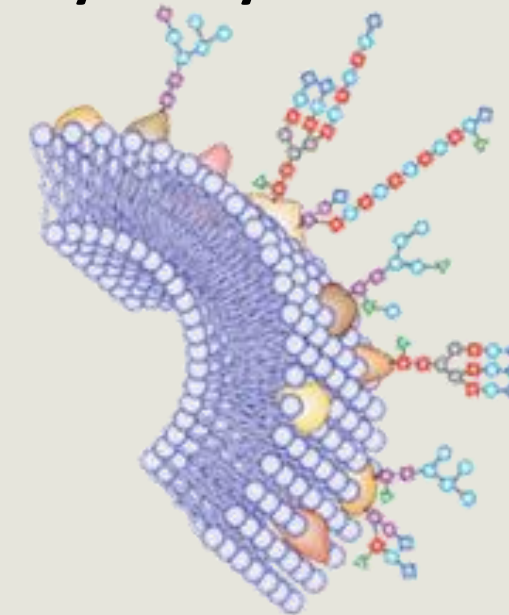


Optis Biome Sensor(OBS) for microbiomes

OBS could detect Bacillus bacteria, a beneficial bacterium in the rhizosphere. By changing the probe fixed to the sensor surface, it is possible to detect a variety of bacterial species. The figure below shows the measurement time course.

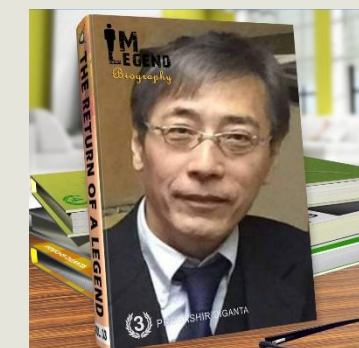


Pioneering Company in Glycan and Lectin fields



Pursuing 「New Green Evolution」 to realize Regenerative and Sustainable World

emukk LLC



<https://www.emukk.com/WP/info@emukk.com>

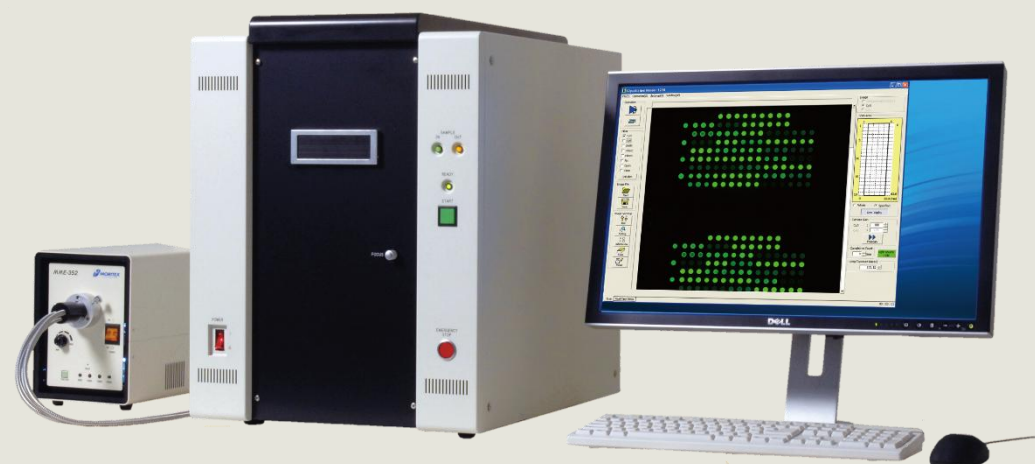
Pioneer in Glycan Profiling Technology using Lectin Microarrays

GlycoStation®



Ultra High- Performance

World Fastest
Once people get used to speed, they
can't go back



Ultra high-performance scanner GlycoStation®

The current high-end glycan profiler is GlycoStation® Reader 2300 (GSR2300). Comparing with the first generation Glycan profiler, GSR1200, the prominent feature of GSR2300 is that two contradictory functions (i.e., high sensitivity and fast scanning) are satisfied simultaneously. By renewing the optical system and adopting a digital binning function, it is able to scan whole microarray surface in only 15 seconds with higher sensitivity than GSR1200. Taking into consideration that the common microarray scanners need around 10 minutes for the scanning, GSR2300 would be a world fastest scanner with high sensitivity. Utilizing its low noise detection capability, it is possible to get glycan profiles only from a few cells. The linearity in the lower signal range is greatly improved, and thereby the dynamic range in the lower signal side is expanded.

There are two type of lectin microarrays, Ver1.0 and Ver2.0. A fully compatible LecChip is available from PSS.

Please refer to our HP to get detailed information.

World fastest scanner GlycoSuperLite™2200

This instrument enables to get instantaneous capture of fluorescent images of lectin microarrays without scanning. This allows for ultra-fast scanning, achieving scan times of less than 10 seconds. It is no exaggeration to say that this is the world's fastest evanescent wave fluorescence excitation glycan profiler. We offer this performance at an affordable price.

FDA recommends (IgG1-mAb-LecChip)

FDA recommends that lectin arrays are highly practical for analyzing glycan profiles of antibody drugs, evaluating differences in glycan modification between various manufacturing batches or between biosimilars and innovator drugs. FDA has developed a custom array named as IgG1-mAb-LecChip.



エムック
for the coming new age

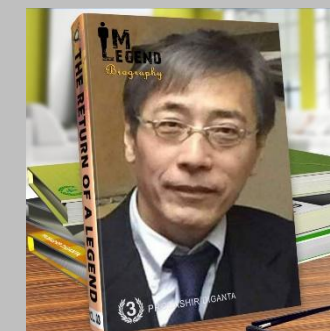
Emukk LLC

Established on Jan. 6th, 2023 as an LLC, started on Nov. 27th, 2020 as a spin-off small business from GlycoTechnica.

One of the first companies commercialized lectin microarrays was Moritex's Glycomics Laboratory, which launched the glycan profiling system "GlycoStation" in 2007. This technology has undergone transitions from Moritex, through GP Bioscience, to Glycotechnica, and finally has been inherited by Mx (emukk).

At Mx (emukk), while applying the technology we have cultivated, we are now focusing on developing new sensors.

CEO Masao Yamada, Ph.D.



Head Quarters
2-21-19 Matsunoki, Kuwana
Mie 511-0902, Japan
TEL : +81-80-2616-8688

yamada_masao@emukk.com
<https://www.emukk.com/WP/>

