



ACARYON

DEVELOPMENT
OF UNIQUE
PROBIOTICS

INNOVATION FOR STRONG
PRODUCT DIFFERENTIATION &
POSITIONING



MICROBIAL CARBOHYDRATES FOR NEXT GENERATION PROBIOTICS

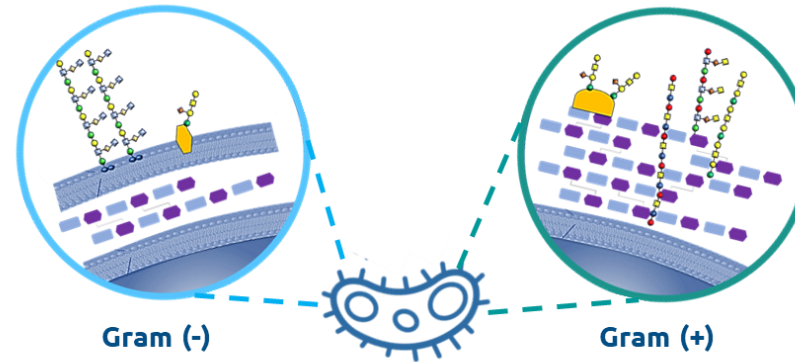
Our microbiome expertise makes the difference

Microbial carbohydrates are:

- main component of the surface of microorganisms
- oriented to the environment
- offer an almost unlimited diversity of structures
- can be released into the environment

Microbial carbohydrates are essential for many processes including:

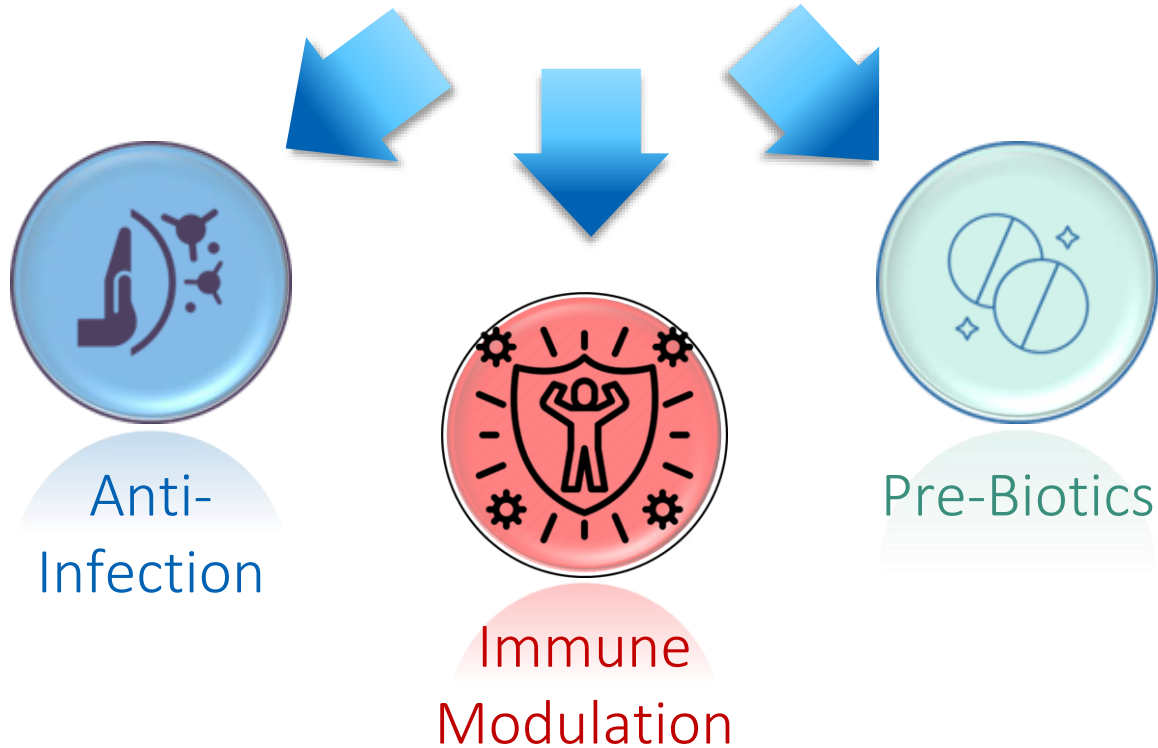
- binding to receptors
- binding of soluble substances
- activation/repression of the immune system
- anti-microbial activities
- signal transduction etc.



We are committed to guarantee the integrity, reliability and traceability of all data. Our Quality Management System is based on ISO 9001.

Microbial carbohydrates for Next Generation Probiotics

Specific mode of action for specific indication

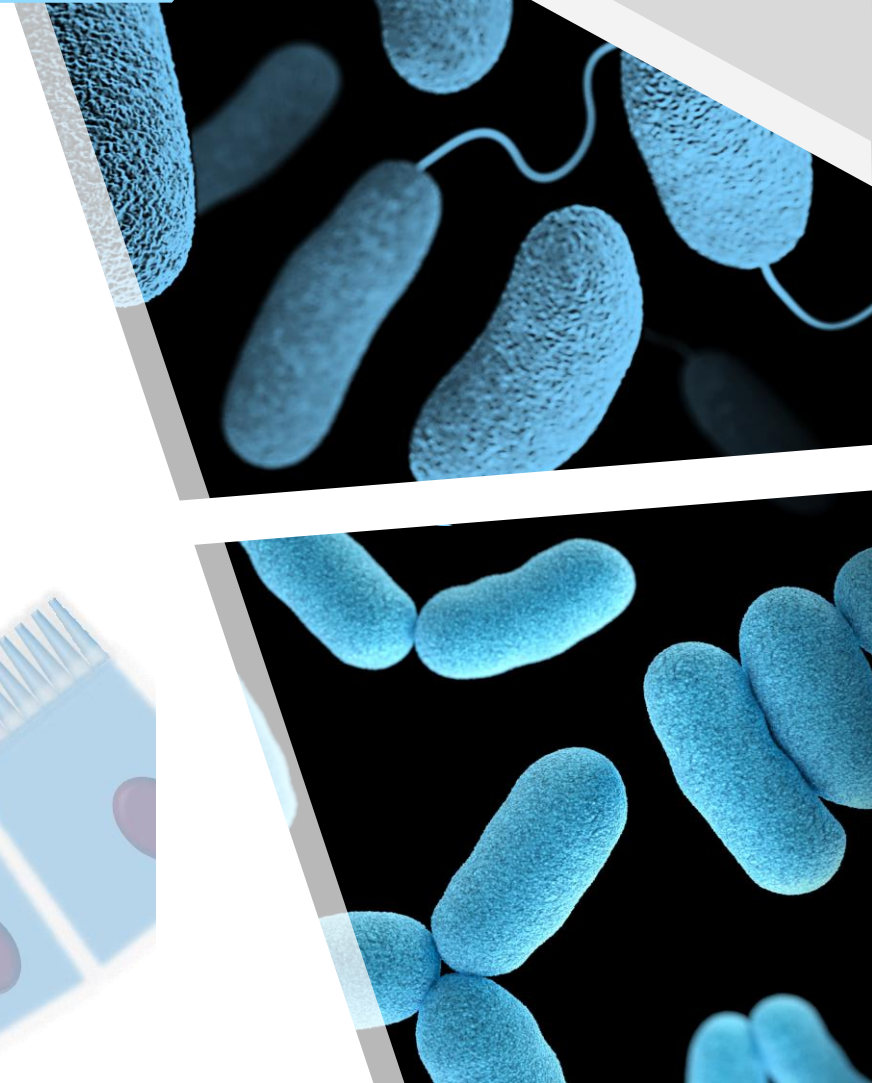
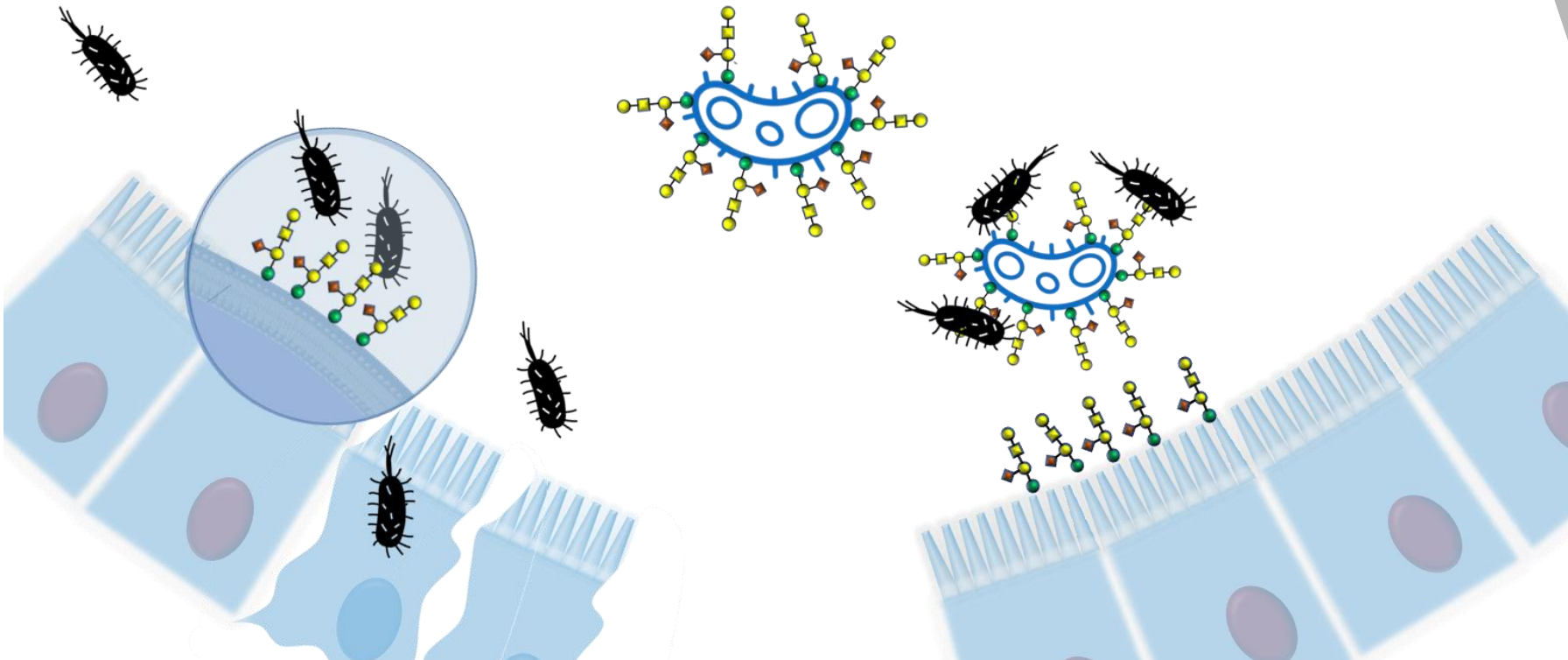


ANTI-INFECTION



Our microbiome expertise makes the difference

Bacterial strains naturally expressing a carbohydrate structure mimicking receptor for a pathogen, a virus or a toxin can specifically displaces the said pathogen/virus/toxin and avoid the disease.



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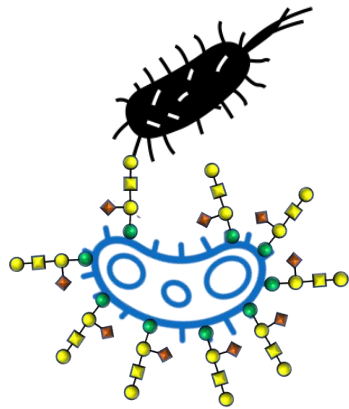


ANTI-INFECTION

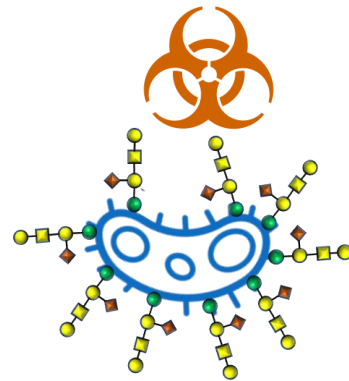


Our microbiome expertise makes the difference

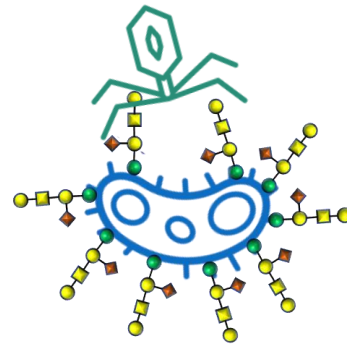
Bacterial strains naturally expressing a carbohydrate structure mimicking receptor for a Pathogen, a Virus or a Toxin can specifically displaces the said pathogen/virus/toxin and avoid the disease.



Pathogen



Toxin



Virus

Example: Binding and neutralizing the cholera toxin. Toutounian et. al. Human Microbiome Journal, Volume 18, December 2020



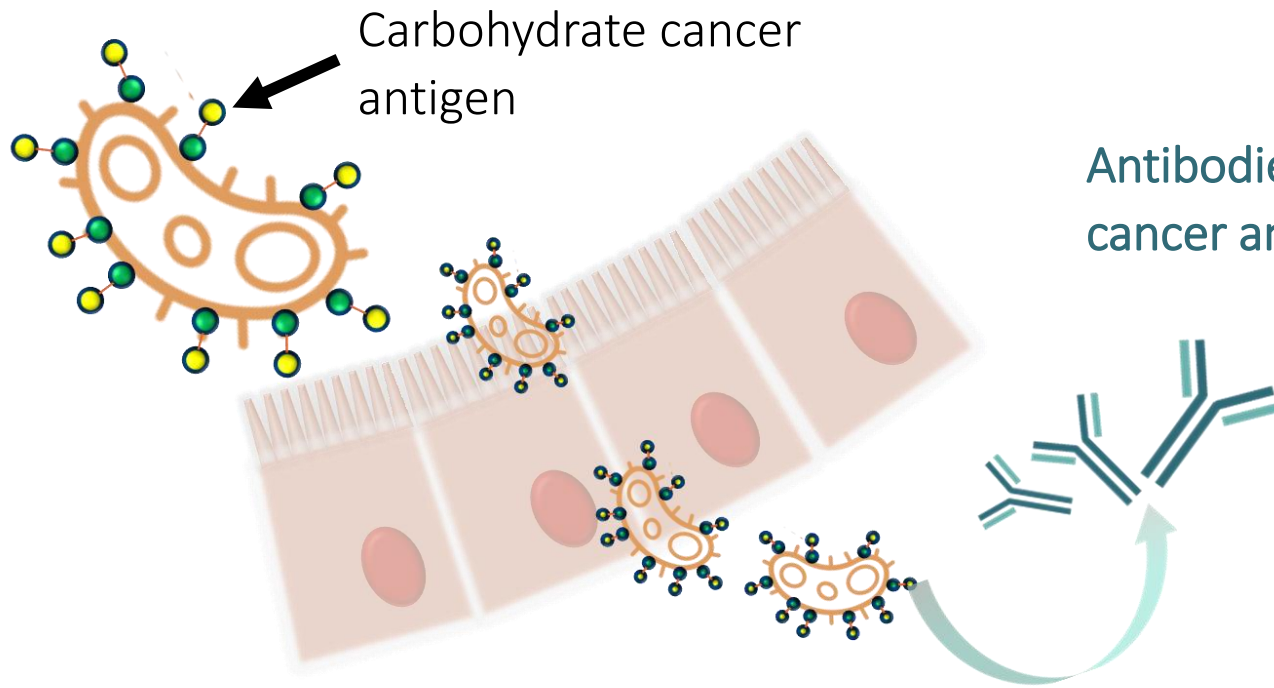
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IMMUNE-MODULATION



Our microbiome expertise makes the difference

Bacterial strains naturally expressing or secreting specific carbohydrate structures (antigen or immune stimulatory) can stimulate the immune system.



Example: Microbial carbohydrate antigen inducing an anti-cancer immune response. Ulsemer *et. al.* Beneficial Microbes. 2016 Sep;7(4):485-500.



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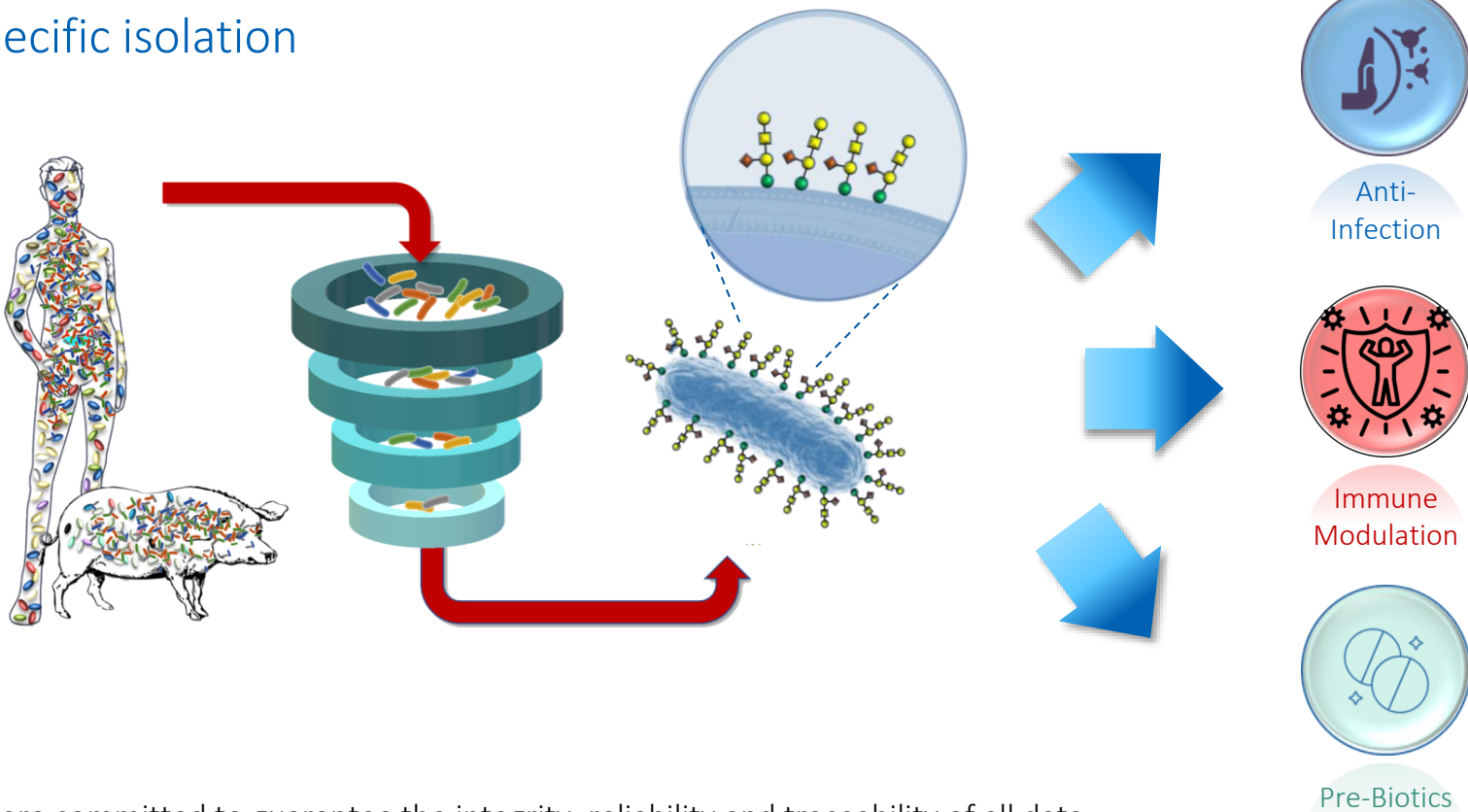
MicroSIS PLATFORM

Our microbiome expertise makes the difference

Our **MicroSIS** platform allows screening the microbiome for microorganisms naturally expressing the needed structures.

=> No gene modifications

=> Specific isolation



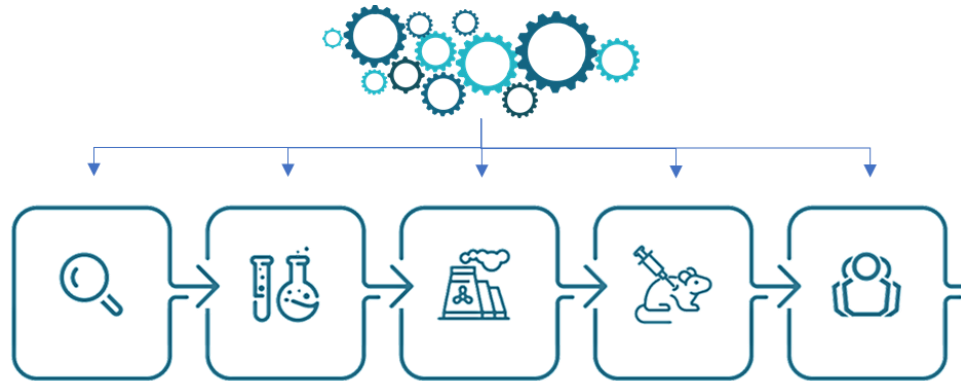
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ACARYON: THE DIFFERENCE

Our microbiome expertise makes the difference

We are experienced with the whole development chain of probiotic products¹.

Our founders were the first to get Novel Food and FDA authorization for a new microorganism².



1. Impact of oral consumption of heat-treated *Bacteroides xylanisolvens* DSM 23964 on the level of natural TFA-specific antibodies in human adults. Ulsemer P et al. *Benef Microbes*. 2016 Sep;7(4):485-500

2. <https://www.eqs-news.com/de/news/corporate/avitop-obtains-us-and-eu-authorization-for-nutraceutical-corrixtm-and-announces-product-launch/902889>



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ACARYON: Probiotic Development

Our microbiome
expertise makes the
difference

We would enjoy discussing with you
about your needs

Please contact us for more information

For more information, please contact us :

ACARYON GmbH
Robert-Rössle-Str. 10
13125, Berlin
Germany

info@acaryon.com

www.acaryon.com

Ina Krüger

ina.krueger@acaryon.com

